

Corporate Digital Banking

Enhancement of BSNeBiz Application and Organization Setup [CR22003]

for

IBAM and BSNeBiz

Performance Testing Report

(PENRIL/BSN-PERF-TEST/BSNeBiz/01) – [CR22003]) Revision: 00

6th February 2024



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Performance Testing Acceptance

I/We hereby verify that this Performance Testing Acceptance Document consists of all the information requested by Bank Simpanan Nasional.

I/We also hereby AGREE that this satisfies our entire performance test result for DB Tech Refresh (MSSQL 2019) in UAT environment.

Bank Simpanan Nasional:

Approved by	Role	Signature	Date

Penril Datability (M) Sdn. Bhd.:

Approved by	Role	Signature	Date
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Document Management

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Chapter 1 - Introduction

1. Background

Bank implements the Enhancement of BSNeBiz Application and Organization Setup in BSNeBiz and IBAM system, which is customer able to make new application and digital signing via online. However, the bank requested Penril to perform a performance report at BSNeBiz New Application Form.

2. Purpose

Bank need to ensure that by implementing Enhancement of BSNeBiz Application and Organization Setup and integrating IB to this new system will not cause major performance degradation.

Thus, this document describes the Performance Test Result before and after IB integration to Enhancement of BSNeBiz Application and Organization Setup in the UAT environment.



Chapter 2 – Content

1. Execution Strategy

1.1 Type of testing: Load Testing

A load test is a planned test to perform a specified number of requests to a system in order to test the query to DB under specific levels of simultaneous requests. A load test ensures that CDB is capable of handling an expected volume of traffic, and therefore is sometimes referred to as volume testing.

The goal of this load test is to prove that with new integration to Enhancement of BSNeBiz Application and Organization Setup, it can handle the expected volume with minimal to acceptable performance degradation. In this test scenario, we simulated the maximum number of requests with the goal of less than 1% of errors.

1.2 Methods of Testing

Penril conducted load testing to the selected menu mentioned in Chapter 1 - 2 Purpose - Module to Test. The test scenarios will be Enhancement of BSNeBiz Application and Organization Setup, because this is considered one of modules that perform heavy query to database and highest number of touch points BSNeBiz. Below is the list of detailed test modules in BSNeBiz:

System	Function	Module	Test Case
IBAM	New Application – Adding Delete Funtionality	BSNeBiz Administration Login Page – Step 1 (portalAccess.do)	[TC-AD-AOS-1]
		BSNeBiz Administration Home Page – Step 2 (portalLogin.do)	[TC-AD-AOS-2]
		BSNeBiz Application Page – Step 3 (applicationFormSearch.do)	[TC-AD-AOS-3]
		BSNeBiz Application Delete Page - Step 4 (applicationFormDeleteConfirm.do)	[TC-AD-AOS-4]
		BSNeBiz Application Delete Result Page – Step 5 (deleteApplicationFormResult.do)	[TC-AD-AOS-5]
BSNeBiz	New Application – To add an account number	New Application Page – Step 1 (ibNewApplicationFormStep1.action)	[TC-ACN-AOS-1]
		New Application Organization and Information Form Page – Step 2 (ibNewApplicationFormStep2.action)	[TC-ACN-AOS-2]
		New Application Services and Access Type Form Page – Step 3 (ibNewApplicationFormStep3.action)	[TC-ACN-AOS-3]
		New Application Confirmation Form Page – Step 4 (ibNewApplicationFormStep4.action)	[TC-ACN-AOS-4]
		New Application Terms & Condition Page – Step 5	[TC-ACN-AOS-5]



		ibBSN_TNC.action)	
		New Application Save and Download Declaration Pdf Page – Step 6 (ibNewApplicationFormModal.action)	[TC-ACN-AOS-6]
		New Application Save and Download Declaration Pdf Page - Step 7 (RegistrationSummaryPdfDownload.action)	[TC-ACN-AOS-7]
. BSNeBiz	New Application – Rearrange the Services	New Application Page – Step 1 (ibNewApplicationFormStep1.action)	[TC-RSL-AOS-1]
	Listing	New Application Organization and Information Form Page – Step (ibNewApplicationFormStep2.action	[TC-RSL-AOS-2]
		New Application Services and Access Type Form Page – Step 3 (ibNewApplicationFormStep3.action)	[TC-RSL-AOS-3]
		New Application Confirmation Form Page – Step 4 (ibNewApplicationFormStep4.action)	[TC-RSL-AOS-4]
		New Application Term & Conditions Page – Step 5 (BSN_TnC.pdf)	[TC-RSL-AOS-5]
		New Application Save and Download Declaration Pdf Page – Step 6 (ibNewApplicationFormModal.action)	[TC-RSL-AOS-6]
		New Application Save and Download Declaration Pdf Page – Step 7 (RegistrationSummaryPdfDownload.action)	[TC-RSL-AOS-7]
BSNeBiz	New Application – To update the Contact	New Application Page – Step 1 (ibNewApplicationFormStep1.do)	[TC-UCS-AOS-1]
	Us Screen	New Application Organization and Information Form Page – Step 2 (ibNewApplicationFormStep2.do)	[TC-UCS-AOS-2]
		New Application Services and Access Type Form Page – Step 3 (ibNewApplicationFormStep3.do)	[TC-UCS-AOS-3]
		New Application Confirmation Form Page – Step 4 (ibNewApplicationFormStep4.do)	[TC-UCS-AOS-4]
		New Application Term & Condition Page – Step 5 (BSN_TnC.pdf)	[TC-UCS-AOS-5]
		New Application Save and Download Declaration Pdf Page – Step 6 (ibNewApplicationFormModal.do)	[TC-UCS-AOS-6]
		New Application Save and Download Declaration Pdf Page – Step 7 (RegistrationSummaryPdfDownload.do)	[TC-UCS-AOS-7]
		New Application Email Us Page – Step 8 (ibNewApplicationFormStep5.do)	[TC-UCS-AOS-8]



IBAM	To Add Checkbox in Order to Facilities	BSNeBiz Administration Login Page – Step 1 (ibPortalAccess.do)	[TC-ACF-AOS-1]
		BSNeBiz Administration Home Page – Step 2 (ibPortalLogin.do)	[TC-ACF-AOS-2]
		BSNeBiz Application Page – Step 3 (applicationFormSearch.do)	[TC-ACF-AOS-3]
		BSNeBiz Application Page – Step 4 (applicationFormCreate.do)	[TC-ACF-AOS-4]
		BSNeBiz Application Search ByPage – Step 5 (applicationFormCreateStep2.do)	[TC-ACF-AOS-5]
		BSNeBiz Application Create (Organization Detail) Page – Step 6 (applicationFormCreateStep3.do)	[TC-ACF-AOS-6]
		BSNeBiz Application Create (Services) Page – Step 7 (applicationFormCreateStep4.do)	[TC-ACF-AOS-7]
		BSNeBiz Application Create (Services) Page – Page 8 (applicationFormCreateStep5.do)	[TC-ACF-AOS-8]
		BSNeBiz Application Create (Charges) Page – Step 9 (applicationFormCreateStep6.do)	[TC-ACF-AOS-9]
		BSNeBiz Application Create (Charges) Page – Step 10 (applicationFormCreateStep7.do)	[TC-ACF-AOS-10]
		BSNeBiz Application Create (Confirmation) Page – Step 11 (applicationFormCreateStep8.do)	[TC-ACF-AOS-11]
		BSNeBiz Application Create (Result) Page – Step 12 (applicationFormCreateStep9.do)	[TC-ACF-AOS-12]

Important Notes:

This performance test case does not reflect the actual performance in the production environment. Bank need to provide the ratio between staging vs. production environment.



1.3 Process of testing – Adding Delete Functionality to IBAM > CBE BSNeBiz Application Module

This test scenario simulates concurrent users to Adding Delete Functionality to IBAM > CBE BSNeBiz Application module. This test case depends on below test case to be executed:

1.3.1 [TC-AD-AOS-1] – BSNeBiz Administration Login Page – Step 1 (PortalAccess.do) In this stage, the CDB connects to:

a) DBO DB Schema

The DBO fetches:

- IB_SERVICE_INFO. IB_SERVICE_INFO contains some notes or announcements.

4	BSN	Announcement
Login to BSNe	Biz Administration	
User Name		
Password	8	
	Login	Tahun
	in in the second s	M MARCAKPK POR A SEJAK 1974
		Mendukung Aspirasi, Merentasi Generasi.

Figure 1: BSNeBiz Administration Login page



1.3.2 [TC-AD -AOS-2] – BSNeBiz Administration Home Page – STEP 2 (portalLogin.do) In this stage, the CDB connects to BSNeBiz Administration Home page:

₿BSN	M TUESDAY, 09 JAN 2024 05:53:38 PM Welcome, Administrator						8 💌 🗄
A _Home	BSNeBiz Application						
MESSAGE BOX	DOM D' A L' L'						
BANK BACK END	BSNeBiz Application						
CORP BACK END	A Profiles		າງ Last 10 Rec	cent Activities			
- BSNeBiz Application			Date	Description	Status	Reason	Activity By
- BSNeBiz Submission	ADMINISTRATOR Administrator	Last Access Info	2024-01-09 17:50:53.295	Logout	Buooessful	-	administrator
 <u>Organization Setup</u> <u>Generate Pin</u> 	Coffice No: 0312345678	m 09/01/2024 05:50:09 PM □ 10.10.95.121	2024-01-09	Login	Buocessful	5	administrator
 <u>BSNeBiz Navigation</u> E Statement 	Mobile No: 0128888889		2024-01-09	Login	Unsuccessful		administrator
 BSNeBiz Transaction Enguiry 	한 User Status: Normal		2024-01-09 16:49:43.343	Logout	Buccessful	(4	administrator
 <u>BSNeBiz User Activity</u> Log <u>BSNeBiz Report</u> 	Created By: SYSTEM Updated By: Administrator Creation Date: 06(42/2010		2024-01-09 18:49:37.848	Edit Approval Matrix: VOC DT ACADEMY SDN BHD VOC DT ACADEMY SDN BHD	Buccessful	2	administrator
 <u>Corporate Account</u> <u>Enquiry</u> 	05:08:13 PM		2024-01-09 16:49:16.999	Login	Buccessful	2	administrator
- <u>NODDE</u> - <u>RPP Message Log</u>	09:44:22 AM		2024-01-09	Inactive Session	Eucoessful	а.	administrator
DuitNow QR Merchant Registration History AUTHORIZATION G FILE PROCESSING			2024-01-09 16:37:33.532	Re-send BSNeBiz User Temporary Password: NURIN.VERIFIER VOC DT ACADEMY SDN BHD VOC DT ACADEMY SDN BHD	Buosessful	1	administrator
)_EOD =			2024-01-09 18:28:56.277	Re-send BSNeBiz User Temporary Password: ADMA01799 VOC DT ACADEMY SDN BHD VOC DT ACADEMY SDN BHD	Buccessful	e	administrator
			2024-01-09 18:23:14.478	Login	Buccessful	84	administrator

Figure 2: BSNeBiz Administration Home page

1.3.3 [TC-AD-AOS-3] – BSNeBiz Application Page – STEP 3 (applicationFormSearch.do) In this stage, the CDB connects to BSNeBiz Application page:

₿BSN	Welcome, Adm	AN 2024 05:55:04 PM hinistrator							8 🗭
🖀 _Home	BSNeBiz Applic	sation							
	BSNeBiz	Application							
CORP BACK END									-
BSNeBiz Application	O Adva	ance Search							
Organization Setup	Create					Show 10	~ entries	s	now / hide columns
 <u>Generate Pin</u> <u>BSNeBiz Navigation</u> 	Actions	Organization Name	Application Status	Registration Date	CIS Number	Account Number	Channel	Application State	Terms & Conditions
 <u>E-Statement</u> <u>BSNeBiz Transaction</u> 	* /	Testing Training	New	15/12/2023 04:54:45 PM		1410041100001950	BSNeBiz	Kuala Lumpur	*
Engury BSNeBiz User Activity Log	*	MISMATCH A/C (VE GIRO) BHG OPERASI KAD	New	05/12/2023 11:52:48 AM	3825109	1410041000005508, 1410041000005508, 1410041000005508	отс	Kuala Lumpur	*
 BSNeBiz Report Corporate Account Enquiry 	*	Alif Teega	New	01/12/2023 11:41:14 AM	3825109	1410041000005508	BSNeBiz	Selangor	
 <u>Notice</u> <u>RPP Message Log</u> 	@ / ×	Pusat Urutan Yusree	New	30/11/2023 05:05:50 PM		1410029100001045	BSNeBiz	Negeri Sembilan	
DuitNow QR Merchant Registration History	* /	NIKE ETP	New	30/11/2023 04:49:19 PM	30010405		отс	Kelantan	*
AUTHORIZATION ■ _FILE PROCESSING ■	*	Kacang Kriuk Kriuk	New	30/11/2023 12:03:47 PM		0010029100001321	BSNeBiz	Selangor	٤
COD ⊞	* /	Hubert Blaine	New	23/11/2023 11:37:13 AM		0010029100001321	BSNeBiz	Kuala Lumpur	٤
G	● / ×	Hubert Blaine Wolf two	New	25/10/2023 09:48:12 AM			BSNeBiz	Kuala Lumpur	
	* /	Original Vanilla Rose Tea	New	11/10/2023 11:35:02 AM			BSNeBiz	Kuala Lumpur	
	*	penril	New	08/09/2023 04:13:09 PM			BSNeBiz	Negeri Sembilan	

Figure 3 : BSNeBiz Application page



1.3.4 [TC-AD-AOS-4] – BSNeBiz Application – Delete Page – Step 4 (applicationFormDeleteConfirm.do)

In this stage, the CDB connects to BSNeBiz Application – Delete page:

0	-0
Confirm	Reput
State	
Organization information	
CIS Number	Organization Address
3825109	Rumah bini kedua
Organization ID	
K6829	
Application ID	Postcode
1663	12345
Application Status	City
New	
Organization Name	Country
Allf Teega	MALAYSIA
Business Registration Number	State
	Selangor
Office Phone Number	Require Workflow
	No
Fax Number	Business Type
	MONETARY AUTHORITY
Organization Website	Is Government
	No
Organization Email	
Contact Details	
Account	
Charges	
Remarks	

Figure 4 : BSNeBiz Application – Delete page



1.3.5 [TC-AD-AOS-5] - BSNeBiz Application Delete Result Page – Step 5 (deleteApplicationFormResult.do)

In this stage, the CDB connects to BSNeBiz Application Delete Result Page:



Figure 5: BSNeBiz Application Delete Result Page



1.4 Process of testing – New Application – To add an account number field in the online payment row

This test scenario simulates concurrent users for New Application – To add an account number field in the online payment row. This test depends on below test case to be executed:

1.4.1 [TC-ACN-AOS-1] – New Application Page – Step 1 (ibNewApplicationFormStep1.action) In this stage, the CDB connects to:

a) DBO DB Schema

The DBO fetches:

- IB_SERVICE_INFO. IB_SERVICE_INFO contains some notes or announcements.



Figure 6: BSNeBiz Login page

1.4.2 [TC-ACN-AOS-2] - New Application Organization and Information Form Page – Step 2 (ibNewApplicationFormStep2.action)

In this stage, the CDB connects to New Application Organization and Information Form page:



ication			-
louion			
	Organization and Information		
	Note: All fields with asterisks (*) are mandatory.		
ion Name*			
Registration Number			
ions Address*			
	Please select		
	ion Name* Registration Number ions Address*	Organization and Information In Name* Registration Number ions Address* Image: I	Drganization and Information Nete: All fields with esterisks (*) are mandatory. Nete: All fields with esterisks (*) are

Figure 6 : BSNeBiz New Application > Organization and Information page

State*	Please select		~
	⊖ Government ⊖ Non-Governme	ent	
Contact Person		Corporate Administrator	
Full Name*		Full Name*	
Identity Card No* 0		Identity Card No*	
Mobile Phone No* ()		Mobile Phone No* •	
Email*		Email*	
Cancel		Next	

Figure 7 : BSNeBiz New Application > Organization and Information page

1.4.3 [TC-ACN-AOS-3] - New Application Services and Access Type Form Page – Step 3 (ibNewApplicationFormStep3.action)

In this stage, the CDB connects to:

a) DBO DB Schema

The DBO fetches:

- Table BIB_LHDN_EMPLOYER_NO. Table BIB_LHDN_EMPLOYER_NO contains id number validation details.



		Services & Access Type
	Services	BSN Corporate Account
	Collection	
	Auto Debit	
	Bulk Payment	
	Online Payment	7629451822
	Statutory Body	
	Corporate Card	Card Number *
	ZAKAT	Employer Number *
Туре	of Access	No Workflow (Single Lise)

Figure 8 : BSNeBiz New Application > Services and Access Type page

1.4.4 [TC-ACN-AOS-4] - New Application Confirmation Form Page – Step 4 (ibNewApplicationFormStep4.action)

In this stage, the CDB connects to New Application Confirmation Form Page:

rganization Application					
	Confirmation				
Please verify that all information provid Proceed to click on the checkbox and "C	ed is complete and accurate. Continue" to complete this process.				
	Organization and Information				
Business Registration Number					
Organization Name	ALI BABA				
Organizations Address	JALAN BABA				
Postcode	01000				
City					
Country	MALAYSIA				
State	Perlis				

Figure 9 : BSNeBiz New Application > Confirmation page



	:	State
State	Kedah/Perlis	
	O Government Non-Government	
Conta	ct Person	Corporate Administrator
Full Name		Full Name
ВАВА		BABA
Identity Card No		Identity Card No
11111111111		11111111111
Mobile Phone No		Mobile Phone No
019999999999		019999999999
Email		Email
BABA@GMAIL.COM		BABA@GMAIL.COM

Figure 10 : B BSNeBiz New Application > Confirmation page

Services					
	Services	BSN Corporate Account			
	Collection				
	Auto Debit				
	Bulk Payment				
	Online Payment	0210741100023882			
	EPF	Employer Number			
	🗆 socso	Employer Number			
	Corporate Card	Card Number			
	ZAKAT	Employer Number			
Type of V I I I N 11/01/2	Access With Workflow (Maker & Checker) ereby confirmed that the information provided 2024 16:36:35	No Workflow (Single User) d is correct			
Back	k	Continue			

Figure 11 : BSNeBiz New Application > Confirmation page

1.4.5 [TC-ACN-AOS-5] - New Application Terms & Conditions Page – Step 5 (ibBSN_TNC.action)

In this stage, the CDB connects to:

a) SACDA947 Server

The SACDA947 fetches:

- BSN folder. BSN folder contains BSN_TNC.pdf file for Terms And Condition of BSNeBIZ pdf.



		Terms & Conditions			
Terms & Conditions					
□	1 of 8	— + Automatic Zoom v	🖗 🕒	ILE	\gg
					^
	TERMS AND CON	DITIONS OF BSNeBIZ			
	1.1 The following terms ar	nones In conditions ('T&Cs') and any revision or amendment thereto shall govern the Customer's access and use of the BSNeBiz system			
	under the domain nam and/or using the Servic	e www.bsnebiz.com/my ('BSNeBiz') and the Services provided therein by Bank Simpanan Nasional ('BSN'). By accessing BSNeBiz :es, the Customer agrees to be bound by these T&Cs without limitation or qualification.			
	2.0 DEFINITIONS AND I	ITERPRETATIONS			
	2.1 In these T&Cs, save w	here the context otherwise requires, the following words and expressions shall bear the following meanings namely:			
	"Autodebit Enrolment File"	 the enrolment file submitted by the Customer via BSNebiz authorising BSN to perform the autodebit transactions as are necess; from the Payors Bank Account for the payments to the Customer for services provided by the Customer and/or any other payment that must be noncessed via BSNebic. 	ny Its		
	"Autodebit Form"	In a may be processed in a Dorbush, the autoeolithm in BSWs standart format available at all BSN branches which may be varied or amended or modified from time time or in the Outdomer's customized format as approved by BSN authorising BSN to make such deductions as are necessary fro the Payor's Bank Acquired in respect of payments to the Customer for services provided by the Customer and/or any other payment at may be processed via BSNetDig;	to m nts		
	"Autodebit	- the Customer's instructions to BSN to deduct the Payment due to the Customer from the Payor's Bank Account;			
	"BSN Credit Card" "Bank Account"	- any credit card issued by BSN; - a BSN savinos account:			
	"B5NeBiz" "Customer's	 a corporate banking potation software business entities to access and to performultize the Services; the Customers BSN savings account into which the Payment shall be deposited and/or from which Payment shall be made in relation to account the customers and the same software business. 	on		~
	O YE	S, I agree with Terms and Conditions 🔿 NO, I DO NOT agree with Terms and Conditions			

Figure 12: BSNeBiz > New Application > Terms and Condition screen

		Application	Declaration		
• Terms & Conditions		Declaration This application is made on behalf of ALI BABA and I have informed my organization regarding my application			
	of 8	Name*	BABA	0	u I 2 m »
	TERMS AND CONF	IC Number*	1111111111		ŕ
	1.0 TERMS AND CONDIT	Email*	BABA@GMAIL.COM		
	1.1 The following terms and under the domain name and/or using the Service 2.0 DEFINITIONS AND IN	Close	Submit	use of the BSNeBiz system SN'). By accessing BSNeBiz	
2.0 DEFINITIONS AND I 2.1 In these T&Cs, save w				igs namely:	
	"Autodebit Enroiment File" "Autodebit Form"	from the Payor's Bank / that may be processed v the autodebit form in BS time or in the Customer the Payor's Bank Accou that may be processed v	iccount for the payments to the Customer for services provided by the C is BSNeBic; Ns standard format available at all BSN branches which may be varied o substituted format as approved by BSN authoristing BSN to make suc in in respect of payments to the Customer for services provided by the C is BSNeBic;	(bit transactions as are necessary ustomer and/or any other payments or amended or modified from time to a deductions as are necessary from ustomer and/or any other payments	
	"Autodebit Instructions" "BSN Credit Card" "Bank Account" "BSNeBiz"	the Customer's instruction any credit card issued by a BSN savings account; a corporate banking port	ins to BSN to deduct the Payment due to the Customer from the Payor's E (BSN; a) for registered business entities to access and to perform/utilize the Sen	iank Account; ices;	
	Customers Account	 The Customer's BSN saves to the relevant Services I agree with Terms a 	ings account into which the Payment shall be deposited and/or from which	conditions	Ň

Figure 13: BSNeBiz > New Application > TNC > Application declaration popup



1.4.6 [TC-ACN-AOS-6] - New Application Save and Download Declaration Pdf Page – Step 6 (ibNewApplicationFormModal.action)

In this stage, the CDB connects to:

a) SACDA947 Server

The SACDA947 fetches:

- BSN folder. BSN folder contains BSN_TNC.pdf file for Terms And Condition of BSNeBIZ pdf.

SN		₩-
	Terms & Conditions	
• Terms & Condition	ions	
■ Q ∧	∨ 1 of 8 - + Automatic Zoom ∨ 🕀 🖼 I & 📾	» ^
	TERMS AND CONDITIONS OF BSNeBIZ 1.1 The blowing terms and conditions (T&C') and any revision or amendment thereto shall govern the Customer's access and use of the BSNeBiz system under the domain name www.bsnebiz.com.my (ESN-EB) and therein by Bank Simpanan Nasional (ESN). By accessing BSNeBiz and/or using the Services, the Customer agrees to be bound by these TaCs without limitation or qualification. 2.1 The blowing terms and conditions (T&C') and any revision or amendment thereto shall govern the Customer's access and use of the BSNeBiz system under the domain name www.bsnebiz.com.my (ESN-ED) are the Services, the Customer agrees to be bound by these TaCs without limitation or qualification. 2.1 DEFINITIONS AND INTERPETATIONS Evaluation of the submit term the context oftenwise requires, the following words and expressions shall bear the following meanings namely: "Audoebit Freimer the enrolment file submited by the Customer via BSNeBiz authorising BSN to perform the audoebit transactions as are necessary from the Payors Bark Account for the payments to the Customer for services provided by the Customer and/or any other payments that may be processed via BSNeBiz. "Audoebit Form" the audoebit form in BSN's standard form at available at all BSN banches which may be varied or amended or modified from time to any other payments to the Customer for services provided by the Customer and/or any other payments that may be processed via BSNeBiz. "Audoebit form" the Customer's to BSN is formed to the Dustomer form the Payors Bark Account in registered business entities to access and to perform unlike the Services. "Audoebit form" the Customer's BSN savings account in the aving secou	~
	O VER Learn with Terms and Configure O NO LIDO NOT some with Terms and Configure	
	O TES, Fagree with remis and conditions O NO, 100 NOT agree with remis and conditions	

Figure 14: BSNeBiz > New Application > Terms and Condition screen

1.4.7 [TC-ACN-AOS-7] - New Application Save and Download Declaration Pdf Page – Step 7 (RegistrationSummaryPdfDownload.action)

In this stage, the CDB connects to:

a) DBO DB Schema

The DBO fetches:

- Table BIB_APPLICATION_FORM. Table BIB_APPLICATION_FORM contains data for New Application Form details.
- b) SACDA947 Server

The SACDA947 fetches:

- IBApplicationResources_en.properties. IBApplicationResources_en.properties contain the Result page details.
- appConfig.file. appConfig file contains the email value inside Result page.





Figure 15 : BSNeBiz New Application > Result page



1.5 Process of testing – New Application – Rearrange the services listing

This test scenario simulates concurrent users for New Application – To rearrange the services listing. This test depends on below test case to be executed:

1.5.1 [TC-RSL-AOS-1] – New Application Page – Step 1 (ibNewApplicationFormStep1.action) In this stage, the CDB connects to:

a) DBO DB Schema

The DBO fetches:

- IB_SERVICE_INFO. IB_SERVICE_INFO contains some notes or announcements.

	BSN BSNeBiz		Announcement
Username Forgot Password Q 1st Time Login	Next C	New Application	Tahun SEJAK 1974
			Mendukung Aspirasi, Merentasi Generasi.

Figure 16 : BSNeBiz Login page



1.5.2 [TC-RSL-AOS-2] - New Application Organization and Information Form Page – Step 2 (ibNewApplicationFormStep2.action)

In this stage, the CDB connects to New Application Organization and Information Form page:

₿BSN		.	Login	^
Organization Application				
	Organization and Information			
	Note: All fields with asterisks (*) are mandatory.			
Organization Name*				
Business Registration Number				
Organizations Address*				
Postcode*				
City				
State*	Please select v			

Figure 17 : BSNeBiz New Application > Organization and Information page

State*	Please select		~
	Government Non-Governm	nent	
Contact Person		Corporate Administrator	
Full Name*		Full Name*	
Identity Card No* ①		Identity Card No* 0	
Mobile Phone No* ()		Mobile Phone No* 0	
Email*		Email*	

Figure 18 : BSNeBiz New Application > Organization and Information page

1.5.3 [TC-RSL-AOS-3] - New Application Services and Access Type Form Page – Step 3 (RegistrationSummaryPdfDownload.action)

In this stage, the CDB connects to:

a) DBO DB Schema

The DBO fetches:

LAST UPDATED:21-September-2023



- Table BIB_LHDN_EMPLOYER_NO. Table BIB_LHDN_EMPLOYER_NO contains id number validation details.

		Services & Access Type
	Services	BSN Corporate Account
	Collection	
	Auto Debit	
	Bulk Payment	
	Online Payment 0	7829451822
	Statutory Body	
	Corporate Card	Card Number *
	ZAKAT	Employer Number *
Туре	of Access	No Work-flow (Simila Lines)
0	With Workflow (Maker & Checker)	Vo workhow (single User)

Figure 19 : BSNeBiz New Application > Services and Access Type page

1.5.4 [TC-RSL-AOS-4] - New Application Confirmation Form Page – Step 4 (ibNewApplicationFormStep4.action)

In this stage, the CDB connects to New Application Confirmation Form Page:

rganization Application	
	Confirmation
Please verify that all information prov Proceed to click on the checkbox and	rided is complete and accurate. "Continue" to complete this process.
	Organization and Information
Business Registration Number	
Organization Name	ALI BABA
Organizations Address	JALAN BABA
Postcode	01000
City	
Country	MALAYSIA
State	Peris

Figure 20 : BSNeBiz New Application > Confirmation page



		State
State	Kedah/Perlis	
	O Government Non-Government	t
Con	tact Person	Corporate Administrator
Full Name		Full Name
BABA		BABA
Identity Card No		Identity Card No
1111111111		111111111111
Mobile Phone No		Mobile Phone No
0199999999999		019999999999
Email		Email
BABA@GMAIL.COM		BABA@GMAIL.COM

Figure 21 : B BSNeBiz New Application > Confirmation page

		Services
	Services	BSN Corporate Account
	Collection	
	Auto Debit	
	Bulk Payment	
	Online Payment	0210741100023882
	EPF	Employer Number
	🗆 socso	Employer Number
	Corporate Card	Card Number
	ZAKAT	Employer Number
Type of V I I 11/01/2	Access With Workflow (Maker & Checker) © hereby confirmed that the information provided 2024 16:36:35	No Workflow (Single User) d is correct
Bac	k	Continue

Figure 22 : BSNeBiz New Application > Confirmation page

1.5.5 [TC-RSL-AOS-5] - New Application Terms & Conditions Page – Step 5 (BSN_TnC.pdf)

In this stage, the CDB connects to:

a) SACDA947 Server

The SACDA947 fetches:

- BSN folder. BSN folder contains BSN_TNC.pdf file for Terms And Condition of BSNeBIZ pdf.



	Terms & Conditions
Terms & Con	Sitions
	TERMS AND CONDITIONS OF BSNeBIZ
	1.0 TERMS AND CONDITIONS
	1.1 The following items and conditions ("F&C#) and any revision or amendment thereto shall govern the Customer's access and use of the ESNeBiz system under the domain name www.bsnebiz.com.my (ESNeBiz) and the Services provided therein by game K simpanan Nasional (ESN). By accessing BSNeBiz and/or using the Services, the customer agrees to be bound by these T&S without (Imitiation or qualification).
	2.0 DEFINITIONS AND INTERPRETATIONS
	2.1 In these T&Cs, save where the context otherwise requires, the following words and expressions shall bear the following meanings namely:
	*Autodebit - the enrolment file submitted by the Customer via BSNeBiz authorising BSN to perform the autodebit transactions as are necessary Enrolment File? If the payer's Bank Account for the payments to the Customer for services provided by the Customer and/or any other payments that may be processed via BSNeBic.
	Autodebit Form - the autodebit form in BSN's standard format available at all BSN branches which may be varied or amended or modified from time to time or in the Customer's customized format as approved by BSN automizing ESN to make such debuctions as are necessary from the Payor's Bark Account in espect of payments to the Customer for services provided by the Customer and/or any other payments that may be processed via BSNebic.
	*Autodebit - the Customer's instructions to B5N to deduct the Payment due to the Customer ifom the Payor's Bank Account;
	IISUGUUIS IISSN Credit Card ¹ - any credit card issued by BSN; IISBN Credit Card ¹ - a RSN caving account
	Bown Roberts Bown Roberts Composite banking consoling as account into which the Payment shall be deposited and/or from which Payment shall be made in relation Customers In the customers In the customers
	YES, I agree with Terms and Conditions NO, I DO NOT agree with Terms and Conditions

Figure 23: BSNeBiz > New Application > Terms and Condition screen

		Application	n Declaration		
, Terms & Conditions		Declaration This application is organization regardi	made on behalf of ALI BABA and I have infing my application	ormed my	
	1 of 8	Name*	BABA		€⊡ I∠■
	TERMS AND CONF	IC Number*	11111111111		
	1.0 TERMS AND CONL	Email*	BABA@GMAIL.COM		
	1.1 The following terms an under the domain name and/or using the Service	Close	Submit	use of the BSNeBiz system SN'). By accessing BSNeBiz	n z
	2.1 In these T&Cs, save wh			igs namely:	
	"Autodebit Enroiment File"	from the Payor's Bank that may be processed	Account for the payments to the Customer for services prov via BSNeBiz;	bit transactions as are nece ided by the Customer and/or any other payr	essary ments
	"Autodebit Form" -	 the autodebit form in BS time or in the Customer the Payor's Bank Account that may be processed 	SN's standard format available at all BSN branches which m r's customized format as approved by BSN authorising BSN unt in respect of payments to the Customer for services prov via BSNeBiz;	ay be varied or amended or modified from ti to make such deductions as are necessary ided by the Customer and/or any other payr	ime to / from ments
	"Autodebit - Instructions"	the Customer's instructi	ions to B5N to deduct the Payment due to the Customer from	the Payor's Bank Account;	
	"BSN Credit Card" - "Bank Account" - "BSNeBiz" - "Customer's -	any credit card issued b a BSN savings account, a corporate banking por the Customer's BSN sa	xy BSN; ; tat for registered business entities to access and to perform ιι wings account into which the Payment shall be deposited and	utilize the Services; d/or from which Payment shall be made in re	elation
	• YES,	I agree with Terms	and Conditions ONO, I DO NOT agree with Te	erms and Conditions	

Figure 24: BSNeBiz > New Application > TNC > Application declaration popup



1.5.6 [TC-RSL-AOS-6] - New Application Save and Download Declaration Pdf Page – Step 6 (ibNewApplicationFormModal.action)

In this stage, the CDB connects to:

a) SACDA947 Server

The SACDA947 fetches:

- BSN folder. BSN folder contains BSN_TNC.pdf file for Terms And Condition of BSNeBIZ pdf.

SN								<-
		Terms	& Condition	s				
• Terms & Conditions								
□ Q ^ ∨	1 of 8	- +	Automatic Zoom 🛛 🗸		0	⊡ I	2 =)	» ^
	TERMS AND COND 1.0 TERMS AND CONDIT 1.1 The following terms and under the domain name and/or using the Service 2.0 DEFINITIONS AND INT 2.1 In these T&Cs, save whe "Autodebit " "Autodebit Porm" "Autodebit Porm" "Autodebit Porm" "Bank Account" "Bank Account" "Bank Account" "Bank Account" "Bank Account" "Bank Account"	ITIONS OF BSNeBIZ ONS conditions (T&Csr) and any revision or a www.sarebiz.com.my (ESNebic) and th yww.sarebiz.com.my (ESNebic) and th yme context otherwise requires, the foll the enroiment file submitted by the Cu from the Payor's Bank Account for the ant may be processed via BSNebic; the audoebit form in BSNebic) the enroiment file submitted by the Cu from the Payor's Bank Account for the ant may be processed via BSNebic; the Quadoebit form in BSNebic; the Customer's instructions to BSN to d any credit card issued by SSN; a BSN savings account; banking portal for registere the Customer's BSN Bankings account; the processed is BSNebic; the customer's BSN Bankings account; the processed is BSNebic; the processed is BSN Bankings account; the processed is BSNebic; the processed is BSN Bankings account; the processed is BSN Bankings account; the processed is BSNEBANKING BANKINGS account; the processed is BSN Bankings account; the processed is BSNEBANKINGS BANKINGS	amendment thereto shall gov e Services provided therein ese TSCs without limitation o owing words and expressions istomer via BSNeBiz authoric payments to the Customer f ormat as approved by BSN immat as approved by BSN inter a second to be the leduct the Payment due to the d business entities to access no which the Payment shall to	em the Customer's access and use of the BSNeB y Bank Simpanan Nasional (BSN). By accessing cualification. shall bear the following meanings namely: ing BSN to perform the autodebit transactions as or services provided by the Customer and/or any i unorise witch may be varied or unofit unorise y BSN to perform the autodebit transactions as or services provided by the Customer and/or any i unorise structure and/or any i customer from the Payor's Bank Account; and to perform/utilize the Services; e deposited and/or from which Payment shall be n	iz system BSNeBiz are necessary other payments ed from time to necessary from other payments made in relation			~
	O YES,	I agree with Terms and Condition	ons ONO, I DO NOT	agree with Terms and Conditions				
Back				Sav	e & Download		Continue	

Figure 25: BSNeBiz > New Application > Terms and Condition screen

1.5.7 [TC-RSL-AOS-7] - New Application Save and Download Declaration Pdf Page – Step 7 (RegistrationSummaryPdfDownload.action)

In this stage, the CDB connects to:

- a) DBO DB Schema
- The DBO fetches:
 - Table BIB_APPLICATION_FORM. Table BIB_APPLICATION_FORM contains data for New Application Form details.
- b) SACDA947 Server

The SACDA947 fetches:

- IBApplicationResources_en.properties. IBApplicationResources_en.properties contain the Result page details.
- appConfig.file. appConfig file contains the email value inside Result page.





Figure 26 : BSNeBiz New Application > Result page



1.6 Process of testing – New Application – To update the Contact Us screen

This test scenario simulates concurrent users for New Application – To update the Contact Us screen. This test depends on below test case to be executed:

1.6.1 [TC-UCS-AOS-1] – New Application Page – Step 1 (ibNewApplicationFormStep1.action) In this stage, the CDB connects to:

a) DBO DB Schema

The DBO fetches:

- IB_SERVICE_INFO. IB_SERVICE_INFO contains some notes or announcements.

	BSN Login to BSNeBiz		Announcement
Username			
	Next		
Forgot Password	Activate Token	New Application	Tahun SEJAK 1974
			Mendukung Aspirasi, Merentasi Generasi.

Figure 27 : BSNeBiz Login page

1.6.2 [TC-UCS-AOS-2] - New Application Organization and Information Form Page – Step 2 (ibNewApplicationFormStep2.action)

In this stage, the CDB connects to New Application Organization and Information Form page:



SN		-	Log
Organization Application			
	<u> </u>		
	Organization and Information		
	Note: All fields with asterisks (*) are mandatory.		
Organization Name*			
Business Registration Number			
Organizations Address*			
Postcode*			
City			
State*	Please select V		

Figure 28 : BSNeBiz New Application > Organization and Information page

State*	Please select		~
	⊖ Government ⊖ Non-Governme	ent	
Contact Person		Corporate Administrator	
Full Name*		Full Name*	
Identity Card No* 0		Identity Card No*	
Mobile Phone No* ()		Mobile Phone No* •	
Email*		Email*	
Cancel		Next	

Figure 29 : BSNeBiz New Application > Organization and Information page

1.6.3 [TC-UCS-AOS-3] - New Application Services and Access Type Form Page – Step 3 (ibNewApplicationFormStep3.action)

In this stage, the CDB connects to:

a) DBO DB Schema

The DBO fetches:

- Table BIB_LHDN_EMPLOYER_NO. Table BIB_LHDN_EMPLOYER_NO contains id number validation details.



		Services & Access Type
	Services	BSN Corporate Account
	Collection	
	Auto Debit	
	Bulk Payment	
	Online Payment ()	7629451822
	Statutory Body	
	Corporate Card	Card Number *
	ZAKAT	Employer Number *
Туре	of Access	No Workflow (Single Lise)

Figure 30 : BSNeBiz New Application > Services and Access Type page

1.6.4 [TC-UCS-AOS-4] - New Application Confirmation Form Page – Step 4 (ibNewApplicationFormStep4.action)

In this stage, the CDB connects to New Application Confirmation Form Page:

Organization Application									
	Confirmation								
Please verify that all information provid Proceed to click on the checkbox and "C	led is complete and accurate. Continue" to complete this process.								
	Organization and Information								
Business Registration Number									
Organization Name	ALI BABA								
Organizations Address	JALAN BABA								
Postcode	01000								
City									
Country	MALAYSIA								
State	Peris								





		State				
State	Kedah/Perlis					
	O Government Non-Government					
Con	tact Person	Corporate Administrator				
Full Name		Full Name				
BABA		BABA				
Identity Card No		Identity Card No				
11111111111		11111111111				
Mobile Phone No		Mobile Phone No				
019999999999		019999999999				
Email		Email				
BABA@GMAIL.COM		BABA@GMAIL.COM				

Figure 32 : B BSNeBiz New Application > Confirmation page

		Services
	Services	BSN Corporate Account
	Collection	
	Auto Debit	
	Bulk Payment	
	Online Payment	0210741100023882
	EPF	Employer Number
	🗆 socso	Employer Number
	Corporate Card	Card Number
	ZAKAT	Employer Number
Type of V I I 11/01/2	Access With Workflow (Maker & Checker) © hereby confirmed that the information provided 2024 16:36:35	No Workflow (Single User) d is correct
Bac	k	Continue

Figure 33 : BSNeBiz New Application > Confirmation page

1.6.5 [TC-UCS-AOS-5] - New Application Terms & Conditions Page – Step 5 (BSN_TnC.pdf)

In this stage, the CDB connects to:

a) SACDA947 Server

The SACDA947 fetches:

- BSN folder. BSN folder contains BSN_TNC.pdf file for Terms And Condition of BSNeBIZ pdf.



	Terms & Conditions
Terms & Con	Sitions
	TERMS AND CONDITIONS OF BSNeBIZ
	1.0 TERMS AND CONDITIONS
	1.1 The following items and conditions ("F&C#) and any revision or amendment thereto shall govern the Customer's access and use of the ESNeBiz system under the domain name www.bsnebiz.com.my (ESNeBiz) and the Services provided therein by game K simpanan Nasional (ESN). By accessing BSNeBiz and/or using the Services, the customer agrees to be bound by these T&S without (Imitiation or qualification).
	2.0 DEFINITIONS AND INTERPRETATIONS
	2.1 In these T&Cs, save where the context otherwise requires, the following words and expressions shall bear the following meanings namely:
	*Autodebit - the enrolment file submitted by the Customer via BSNeBiz authorising BSN to perform the autodebit transactions as are necessary Enrolment File? If the payer's Bank Account for the payments to the Customer for services provided by the Customer and/or any other payments that may be processed via BSNeBic
	Autodebit Form - the autodebit form in BSN's standard format available at all BSN branches which may be varied or amended or modified from time to time or in the Customer's customized format as approved by BSN automizing ESN to make such debuctions as are necessary from the Payor's Bark Account in espect of payments to the Customer for services provided by the Customer and/or any other payments that may be processed via BSNebic.
	*Autodebit - the Customer's instructions to B5N to deduct the Payment due to the Customer ifom the Payor's Bank Account;
	IISUGUUIS IISSN Credit Card ¹ - any credit card issued by BSN; IISBN Credit Card ¹ - a RSN caving account
	Bown Roberts Bown Roberts Composite banking consoling as account into which the Payment shall be deposited and/or from which Payment shall be made in relation Customers In the customers In the customers
	YES, I agree with Terms and Conditions NO, I DO NOT agree with Terms and Conditions

Figure 34: BSNeBiz > New Application > Terms and Condition screen

		Application	n Declaration		
• Terms & Conditions		Declaration This application is organization regardi	made on behalf of ALI BABA and I have infor ing my application	rmed my	
	1 of 8	Name*	BABA		●⊡ I∠⊌ »
		IC Number*	11111111111		
	1.0 TERMS AND CONE	Email*	BABA@GMAIL.COM		
	1.1 The following terms an under the domain name and/or using the Service 2.0 DEFINITIONS AND IN	Close	Submit	use of the BSNeBiz system SN'). By accessing BSNeBiz	
	2.1 In these T&Cs, save wh			gs namely:	
	"Autodebit Enroiment File"	from the Payor's Bank / that may be processed	Account for the payments to the Customer for services provide via BSNeBiz;	bit transactions as are neces ed by the Customer and/or any other paym	sary ents
	"Autodebit Form"	 the autodebit form in BS time or in the Customer the Payor's Bank Account that may be processed of that may be processed of 	5N's standard format available at all BSN branches which may s's customized format as approved by BSN authorising BSN to unt in respect of payments to the Customer for services provid via BSNeBiz;	be varied or amended or modified from tim o make such deductions as are necessary is led by the Customer and/or any other paym	ie to from ients
	"Autodebit Instructions"	the Customer's instruction	ons to BSN to deduct the Payment due to the Customer from the	he Payor's Bank Account;	
	"BSN Credit Cato" - "BSNeBiz" - "Customer's	 a BSN savings account; a corporate banking por the Customer's BSN savings 	ly Dow; ital for registered business entities to access and to perform/uti vings account into which the Payment shall be deposited and/to	lize the Services; or from which Payment shall be made in rela	ation
	YES	, I agree with Terms :	and Conditions ONO, I DO NOT agree with Ter	ms and Conditions	

Figure 35: BSNeBiz > New Application > TNC > Application declaration popup



1.6.6 [TC-UCS-AOS-6] - New Application Save and Download Declaration Pdf Page – Step 6 (ibNewApplicationFormModal.action)

In this stage, the CDB connects to:

a) SACDA947 Server

The SACDA947 fetches:

- BSN folder. BSN folder contains BSN_TNC.pdf file for Terms And Condition of BSNeBIZ pdf.

N .						k
		Terms &	Conditions			
• Terms & Conditions						
□ Q ^ ∨	1 of 8	- + Aut	omatic Zoom 🛛 🗸		● ⊡ I & G) » ^
	1.0 TERMS AND CONDITIC 1.0 TERMS AND CONDITIC 1.1 The foliosing terms and under the domain name and/or using the Services 2.0 DEFINITIONS AND INT 2.1 In these T&Cs, save when 'Autorebit - Findment File' 'Autorebit Instructions' 'BSN credit Caty' 'BSN	Increase of DSIVEDI2 INS Conditions (T&Csr) and any revision or amend www.sneetic commy (ESNeEt) ERPRETATIONS The the context otherwise requires, the following the entoiment file submitted by the Customer of the Payor's Bark Account for the payor that may be processed via ESNeEtiz; The audoebit form in SSN's standard format the Payor's Bark Account in respect of payor att may be processed via ESNeEtiz; The Customer's instructions to BSN to deduct any credit card issued by BSN; a compare bank account in own a SSN savings account; a comporte bank account in own be Customer's BSN savings account; the Customer's BSN savings account; the customer's BSN savings account; the outporter BSN savings account; the the	ment thereto shall govern the Custom vices provided therein by Bank Simpa Scs without limitation or qualification. words and expressions shall bear the fi r via BSNeBiz autonoting BSN to per ents to the Customer for services prov autobiate at all ESN branches which mas approved by BSN authonising BSN tents to the Customer for services prov the Payment due to the Customer from ness entities to access and to perform.	er's access and use of the BSNeBiz system an Nasional (BSN). By accessing BSNeBiz blowing meanings namely. Kmm the autodebit transactions as are necessa (ded by the Customer and/or any other payment by be valied or amended or monifer the payment be valied or amended or monifer the payment the Payor's Bank Account; ntilce the Services; stor from which Payment shall be made in relation	ny Is Is Is Is	~
	O YES,	I agree with Terms and Conditions (⊃ NO, I DO NOT agree with Te	erms and Conditions		
Back				Save & Downk	nad Contin	ue

Figure 36: BSNeBiz > New Application > Terms and Condition screen

1.6.7 [TC-UCS-AOS-7] - New Application Save and Download Declaration Pdf Page – Step 7 (RegistrationSummaryPdfDownload.action)

In this stage, the CDB connects to:

- a) DBO DB Schema
- The DBO fetches:
 - Table BIB_APPLICATION_FORM. Table BIB_APPLICATION_FORM contains data for New Application Form details.
- b) SACDA947 Server

The SACDA947 fetches:

- IBApplicationResources_en.properties. IBApplicationResources_en.properties contain the Result page details.
- appConfig.file. appConfig file contains the email value inside Result page.





Figure 37 : BSNeBiz New Application > Result page

1.6.7 [TC-UCS-AOS-8] - New Application Email Us Page – Step 8 (ibNewApplicationFormStep5.action)

In this stage, the CDB connects to BSNeBiz New Application Email Us page:

ØBSN		C- Login
	Email Us	
	For enquiries, please email: bsnebiz_support@bsn.com.my	
Baok		Back to Login

Figure 38 : BSNeBiz New Application > Email Us



1.7 Process of testing – IBAM – To add checkbox in order to facilitate the "call back" has been done

This test scenario simulates concurrent users for IBAM – To add checkbox in order to facilitate the "call back: has been done. This test depends on below test case to be executed:

1.7.1 [TC-ACF-AOS-1] – BSNeBiz Administration Login Page – Step 1 (ibPortalAccess.do) In this stage, the CDB connects to:

a) DBO DB Schema

The DBO fetches:

- IB_SERVICE_INFO. IB_SERVICE_INFO contains some notes or announcements.

\$₿ B	SN	Announcement
Login to BSNeB	iz Administration	
User Name		
Password	2	
Lo	gin	Tahun
		AUCC AKPK ISEJAK 1974 Mendukung Aspirasi, Merentasi Generasi.

Figure 39 : BSNeBiz Administration Login page



1.7.2 [TC-ACF-AOS-2] – BSNeBiz Administration Home Page – STEP 2 (ibPortalLogin.do) In this stage, the CDB connects to BSNeBiz Administration Home page:

₿BSN	M TUESDAY, 09 JAN 2024 05:53:38 PM Welcome, Administrator						X 🗭
#_Home	 BSNeBiz Application 						
MESSAGE BOX	DONI-Dis Assiliantia						
BANK BACK END	BSNebiz Application						
	Profiles		Last 10 Rec	ent Activities			
- BSNeBiz Application			Date	Description	Status	Reason	Activity By
- BSNeBiz Submission	ADMINISTRATOR	Last Access Info	2024-01-09	Logout	Buccessful	2	administrator
- Organization Setup	Administrator	m 09/01/2024 05:50:09 PM	2024-01-09	Login			administrator
- <u>Generate Pin</u>	C Office No: 0312345678	L 10.10.95.121	17:50:10.388	Logar	EDUCES STUT		aunningerator
- BSNeBiz Navigation	D Mobile No: 0128888889		2024-01-09	Login	Unsuccessful		administrator
- BSNeBiz Transaction Enguiry	다 User Status: Normal		2024-01-09 16:49:43.343	Logout	Buccessful	9	administrator
 BSNeBiz User Activity Log 	Created By: SYSTEM		2024-01-09 16:49:37.848	Edit Approval Matrix: VOC DT ACADEMY SDN BHD	Buccessful	2	administrator
 BSNeBiz Report 	Opdated By: Administrator			VOC DT ACADEMY SDN BHD			
- <u>Corporate Account</u> Enguiry	05:08:13 PM		2024-01-09	Login	Buccessful		administrator
- <u>Notice</u> - <u>RPP Message Log</u>	1 Updated Date: 28/11/2018 09:44:22 AM		2024-01-09	Inactive Session	Eucoessitul	34 -	administrator
DuitNow QR Merchant Registration History AUTHORIZATION FILE PROCESSING			2024-01-09 18:37:33.532	Re-send BSNeBiz User Temporary Password: NURIN.VERIFIER VOC DT ACADEMY SDN BHD VOC DT ACADEMY SDN BHD	Buocessful	া	administrator
_EOD (2024-01-09 16:28:56.277	Re-send BSNeBiz User Temporary Password: ADMA01799 VOC DT ACADEMY SDN BHD VOC DT ACADEMY SDN BHD	Buooessful	~	administrator
			2024-01-09 10:23:14.478	Login	Buccessful	84	administrator

Figure 40 : BSNeBiz Administration Home page

1.7.3 [TC-ACF-AOS-3] – BSNeBiz Application Page – STEP 3 (applicationFormSearch.do) In this stage, the CDB connects to BSNeBiz Application page:

₿BSN	M TUESDAY, 09 J. Welcome, Adm	AN 2024 05:55:04 PM inistrator							8 🛛 =
🖀 _Home	BSNeBiz Applic	ation							
MESSAGE BOX									
A BANK BACK END	BSNebiz	Application							
CORP BACK END									-
BSNeBiz Application	O Adva	ance Search							
 BSNeBiz Submission 	Create					Show 10	 entries 	St	row / hide columns
- Organization Setup	Cieate								
BSNeBiz Navigation	Actions	Organization Name	Status	Registration Date	Number	Account Number	Channel	State	Conditions
 <u>E-Statement</u> <u>BSNeBiz Transaction</u> 	×	Testing Training	New	15/12/2023 04:54:45 PM		1410041100001950	BSNeBiz	Kuala Lumpur	*
Enguiry – <u>BSNeBiz User Activity</u> Log	×	MISMATCH A/C (VE GIRO) BHG OPERASI KAD	New	05/12/2023 11:52:48 AM	3825109	1410041000005508, 1410041000005508, 1410041000005508	отс	Kuala Lumpur	*
 <u>BSNeBiz Report</u> <u>Corporate Account</u> Enquiry 	×	Alif Teega	New	01/12/2023 11:41:14 AM	3825109	1410041000005508	BSNeBiz	Selangor	*
- <u>Notice</u> - <u>RPP Message Log</u>	×	Pusat Urutan Yusree	New	30/11/2023 05:05:50 PM		1410029100001045	BSNeBiz	Negeri Sembilan	1
DuitNow QR Merchant Registration History	×	NIKE ETP	New	30/11/2023 04:49:19 PM	30010405		отс	Kelantan	٤
	×	Kacang Kriuk Kriuk	New	30/11/2023 12:03:47 PM		0010029100001321	BSNeBiz	Selangor	1
EOD B Mobile Navigation	×	Hubert Blaine	New	23/11/2023 11:37:13 AM		0010029100001321	BSNeBiz	Kuala Lumpur	*
o	×	Hubert Blaine Wolf two	New	25/10/2023 09:48:12 AM			BSNeBiz	Kuala Lumpur	
	×	Original Vanilla Rose Tea	New	11/10/2023 11:35:02 AM			BSNeBiz	Kuala Lumpur	
	x	penril	New	08/09/2023 04:13:09 PM			BSNeBiz	Negeri Sembilan	
	Showing	1 to 10 of 63 entries				Previous 1	2 2 4	5 <u>6</u> Z	Next Last

Figure 41 : BSNeBiz Application page



1.7.4 [TC-ACF-AOS-4] – BSNeBiz Application Page – STEP 4 (applicationFormCreate.do) In this stage, the CDB connects to BSNeBiz Application - Create page:

	reate					
0-	22		_0_			
Search	Organization Details	Services	Charges	Confirmation	Result	
Gearch By*						
CIS Number						
Irganization Name"						

Figure 42 : BSNeBiz Application - Create page

1.7.5 [TC-ACF-AOS-5] – BSNeBiz Application Search ByPage – STEP 5 (applicationFormCreateStep2.do)

In this stage, the CDB connects to BSNeBiz Application - Create (Search by) page:

NeBiz Application	ı					
 BSNeBiz Application - C 	reate					
0-	2		_0_	-6	-6	
Search	Organization Details	Services	Charges	Confirmation	Result	
Search By*						
CIS Number						:
3825109						
						Validate
Organization Name*						
MISMATCH A/C (VE C	GIRO) BHG OPERASI KAD					
						Back Next

Figure 43 : BSNeBiz Application - Create (Search by)



1.7.6 [TC-ACF-AOS-6] – BSNeBiz Application Create (Organization Details) Page – STEP 6 (applicationFormCreateStep3.do)

In this stage, the CDB connects to BSNeBiz Application – Create (Organization Detail) page:

NeBiz Applicatio	n					
BSNeBiz Application -	Create					
Search	2 Organization Details	3 Services	4 Charges	5 Confirmation	6 Result	
Organization Info	rmation					,
CIS Number				Organization Address*		
3825109				BANK SIMPANAN NASIONA	L, TINGKAT BAWAH BLOK A,	
Business Registration	Number			117 JLN AMPANG 50450		
M0400132009						
Organization Name*				Postcode*		
MISMATCH A/C (VE	GIRO) BHG OPERASI KAD			50450		
Office Phone Number				City		
Fax Number				Country*		
				MALAYSIA		÷
Organization Email				State*		
				Kuala Lumpur		÷
Organization Website				Business Type*		
organization website				OTHERS		\$
Require Workflow*				Is Government*		
Yes) Yes		
O №				No		

Figure 44 : BSNeBiz Application - Create (Organization Details)

Contact Person	Administrative Information
-ull Name*	Full Name*
nurin sabrina	nurin sabrina
dentity Card No*	Identity Card No*
11111111111	1111111111
Nobile Phone No*	Mobile Phone No*
11111111111	111111111111
Wode: (Eg. 012xxxxxxx)	Note: (Eg. 012xxxxxx)
Office Phone No	Office Phone No
Wate: (Eg. 03xxxxxxxx)	Note: (Eg. 03xxxxxxx)
Email*	Email*
sabrina.azauddin@penril.net	sabrina.azauddin@penril.net
	Staff No

Figure 45 : BSNeBiz Application - Create (Organization Details)



1.7.7 [TC-ACF-AOS-7] – BSNeBiz Application Create (Services) Page – STEP 7 (applicationFormCreateStep4.do)

In this stage, the CDB connects to BSNeBiz Application – Create (Services) generate Organization ID page:

		and the second sec			
Organization Details	Services	Charges	Confirmation	Result	
ices	Account No (Please se	lect the Account Number)			Organization Code
ne Payment	1410041000005508			:	M6789200
porate Card					
Payment	Please select			:	
) Debit	Please select			:	
ection	Please select			:	
	organization Details	Ices Account No (Please se ne Payment 1410041000005508 Sorate Card Please select Please select ection Please select	Organization Details Over Hease Over Hease loss Account No (Please select the Account Number) ne Payment ① 1410041000005508 sorate Card Please select : Payment Please select o Debit Please select ection Please select	Organization Details Oervices Occurrence ices Account No (Please select the Account Number) ne Payment ① 1410041000005508 sorate Card	Organization Details Oervices Occurrence of the Account Number) tess Account No (Please select the Account Number) ne Payment ① 1410041000005508 :Payment ② Please select :Payment ③ Please select :Payment ③ Please select :Payment ③ Please select :Please select :

Figure 46 : BSNeBiz Application – Create (Services) page

1.7.8 [TC-ACF-AOS-8] – BSNeBiz Application Create (Services) Page – STEP 8 (applicationFormCreateStep5.do)

In this stage, the CDB connects to BSNeBiz Application – Create (Services) page:

	0 0				6	
	Search Organization Details	Services	Charges	Confirmation	Result	
Accoun	t					
Organizati	on ID					
M6789						
0	Services	Account No (Please a	elect the Account Number)			Organization Code
	Online Payment 🛛	141004100000550	8		:	M6789200
0	Corporate Card					
0	Bulk Payment	Please select			:	
	Auto Debit	Please select			:	
0	Collection	Please select			:	
	Merchant Report					

Figure 47 : BSNeBiz Application – Create (Services) page





1.7.9 [TC-ACF-AOS-9] – BSNeBiz Application Create (Charges) Page – STEP 9 (applicationFormCreateStep6.do)

In this stage, the CDB connects to BSNeBiz Application – Create (Charges) select Charges Package page:

Search Orga	O	Charges	Continuation	Result	
Charges					
'hamas Darkana'					
Please select					
Subscription Type					
Monthly					
Subscription Fee					
Services	Туре		hargea		
			luccessful here	Unaucossidul Pae	
Bulk Poyment	IBG				
	Individual				
	Organization				
Auto Debit	IBO				
	Individual				
	Organization				
Collection Receivable	(60				
	Individual				
	Organization				
EPF	IBG				
	Individual				
	Organization				
50050	160				
	Individual				
	Organization				
ZAKAT	IB9				
	Individual				
	Organization				

Figure 48 : BSNeBiz Application - Create (Charges) page



1.7.10 [TC-ACF-AOS-10] – BSNeBiz Application Create (Charges) Page – STEP 10 (applicationFormCreateStep7.do)

In this stage, the CDB connects to BSNeBiz Application – Create (Charges) page:

0	0 0	0 0	
Search Organ	nization Details Services	Charges Continuation	Besuit
<u>onarges</u>			
harges Package*			
PACKAGE A			
ubscription Type			
Monthly			
ubscription Fee			
45.00			
Services	Eype	Charges	
		Successful here	Unaucossaful hee
Bulk Payment	189	0.00	0.00
	Individual	0.00	0.00
	Organization	0.00	0.00
Auto Debit	IBG	0.00	0.00
	Individual	0.00	0.00
	Organization	0.00	0.00
Collection Receivable	IBG	0.00	0.00
	Individual	0.00	0.00
	Organization	0.00	0.00
EPF	IBG	0.00	0.00
	Individual	0.00	0.00
	Organization	0.00	0.00
SOCSO	IBG	0.00	0.00
	Individual	0.00	0.00
	Organization	0.00	0.00
ZAKAT	IB9	0.00	0.00
	Individual	0.00	0.00
	Organization	0.00	0.00

Figure 49 : BSNeBiz Application - Create (Charges) page



1.7.11 [TC-ACF-AOS-11] – BSNeBiz Application Create (Confirmation) Page – STEP 11 (applicationFormCreateStep8.do)

In this stage, the CDB connects to BSNeBiz Application – Create (Confirmation) page:

BSNeBiz Application - Create		
Search Organization Details Services Charge	es Confirmation Result	
Organization Information		
CIS Number	Organization Address*	
3825109	BANK SIMPANAN NASIONAL, TINGKAT BAWAH BLOK A,	
Business Registration Number*	117 JLN AMPANG 50450	
M0400132009		
Organization Name*	Postcode*	
MISMATCH A/C (VE GIRO) BHG OPERASI KAD	50450	
Office Phone Number	City	
Fax Number	Country*	
	MALAYSIA	;
Organization Email	State*	
	Kuala Lumpur	;
Ornanization Website	Business Type*	
an Sanamanan a tanan an	OTHERS	;

Figure 50 : BSNeBiz Application - Confirmation page

Contact Person	Administrative Information
Full Name*	Full Name*
nurin sabrina	nurin sabrina
identity Card No*	Identity Card No*
11111111111	11111111111
Mobile Phone No*	Mobile Phone No*
1111111111111	1111111111111
Office Phone No	Office Phone No
Email*	Emai*
sabrina.azauddin@penril.net	sabrina.azauddin@penril.net

Figure 51 : BSNeBiz Application - Confirmation page



Accour	<u>n</u>			
Organizat	tion ID			
M6789				
	Services	Account No	Organization Code	
-	Online Payment	1410041000005508	M6789200	
	Corporate Card			
	Bulk Payment			
0	Auto Debit			
	Collection			
	Merchant Report			



Charges Package				
PACKAGE A				
Subscription Type				
Monthly				
Subscription Fee				
45.00				
Services	Туре	Charges		
		\$uccessful Fee	Unsuccessful Fee	
Bulk Payment	IBG	0.00	0.00	
	Individual	0.00	0.00	
	Organization	0.00	0.00	
Auto Debit	IBG	0.00	0.00	
	Individual	0.00	0.00	
	Organization	0.00	0.00	
Collection Receivable	IBG	0.00	0.00	
	Individual	0.00	0.00	
	Organization	0.00	0.00	
EPF	IBG	0.00	0.00	
	Individual	0.00	0.00	
	Organization	0.00	0.00	
SOCSO	IBG	0:00	0.00	
	Individual	0.00	0.00	
	Organization	0.00	0.00	
ZAKAT	IBG.	0.00	0.00	
	Individual	0.00	0.00	
	Organization	0.00	0.00	

Figure 53 : BSNeBiz Application - Confirmation page

<u>Remarks*</u>			^
	Bac	* <u>Save as PDF</u>	Submit

Figure 54 : BSNeBiz Application - Confirmation page



1.7.12 [TC-ACF-AOS-12] – BSNeBiz Application Create (Result) Page – STEP 12 (applicationFormCreateStep9.do)

In this stage, the CDB connects to BSNeBiz Application – Create (Result) page:

0		_			6	
Search	Organization Details	Services	Charges	Confirmation	Result	
			✓ Succ	essful		
Or	ganization Name MISMA	TCH A/C (VE GIR	O) BHG OPERAS	I KAD application for	m has been submitt	ed successfully

Figure 55 : BSNeBiz Application Result page

1.8 Tools: Apache JMeter 5.1.1 r1855137

Apache JMeter is pure Java open-source software with the purpose of load testing functional behaviour and measuring performance of web applications. This app is chosen because it is platform independent, easy to install and provides better visualization on test results.



2. Business Processes Involved

Adding Delete Functionality to IBAM > CBE BSNeBiz Application Module Process Flow



Diagram 1: Delete functionality at BSNeBiz New Application Process Flow

New Application – To add an account number field in the online payment row Process Flow



Diagram 2: New Application Process flow

New Application – Rearrange the services listing Process Flow



Diagram 3 : New Application Process Flow



New Application – To update the Contact Us Screen Process Flow



Diagram 4 : New Application Process Flow

IBAM – To add checkbox in order to facilitate the "call back" has been done Process Flow



Diagram 5 : BSNeBiz Application(Create) Process Flow

This is a simplified flow diagram of load test flow scenarios representing Corporate Digital Banking Customers performing Delete Functionality to IBAM > CBE BSNeBiz Application Module and New Application process.



3. Performance Test Environment

Test Region	:	SIT Environment
Instance Testing	:	BSNeBIZ – SIT Environment Web : <u>http://58.27.45.179:8080/bsn-cdb-sit/commonLogin</u>
Apache JMeter	:	Version 5.6.2
Java Version	:	JDK 1.8

4. Test Scenario & Test Result with Explanation in Layman Terms

Testing Objective:

Bank would like to establish baseline (no. of concurrent users) of:

- A. IBAM Adding Delete Functionality to IBAM > CBE BSNeBiz Application Module
- B. New Application To have account number field at New Application Form
- C. New Application Rearrange the services listing
- D. New Application To update the Contact Us screen
- E. IBAM To add checkbox in order to facilitate the "call back" has been done

A. IBAM – Adding Delete Functionality to IBAM > CBE BSNeBiz Application Module

To simulate the maximum number of requests to perform Enhancement of BSNeBIZ Application and Organization Setup with goal of:

- Error < 1%.
- Criteria of throughput (second / request) & TPS for each flow:
 - Login.do <5 second or >0.2 TPS
 - To proceed login process
 - PortalAccess <5 second or >0.2 TPS
 - To proceed login process
 - PotralLogin.do <5 second or >0.2 TPS
 - To load the IBAM Home Page
 - ApplicationFormDeleteComfirm.do <5 second or >0.2 TPS
 - To load the Confirmation page
 - DeleteApplicationFormResult.do <5 second or >0.2 TPS
 - To load the Application Declaration form page

I.Perform login service for 50 concurrent users



-Jmeter Execution Date: 23/01/2024

- Test Criteria
 - Perform transaction for 50 concurrent users for 1 loop

Summary of Testing

The performance test result has passed/ not passed the test against the benchmarks that have been set above (such as number of concurrent users, error percentage, and throughput).

• Test Result

- o The JMeter result shows that the system can support 50 concurrent users to perform transactions with 0.00 % error. It takes 45 seconds to complete the transaction process for all users.
- Throughput (min/request)
 The system is capable of completing a http request within 1.2 s (fastest) and 18.9 s (slowest).
- TPS (Transaction per Second) The system is capable of performing 0.023 TPS (fastest) and 0.004 TPS (slowest).
- \circ $\;$ The reasonable ramp-up period without any error is 60 seconds for 50 users.



Image 1: JMeter Test Result - 50 Enhancement of BSNeBIZ users application and Organization Setup

B. BSNeBiz – To Add an Account Number Field in the Online Payment Row

To simulate the maximum number of requests to perform Enhancement of BSNeBIZ Application and Organization Setup with goal of:

- Error < 1%.
 - Criteria of throughput (second / request) & TPS for each flow:
 - ibNewApplicationFormStep1.action <5 second or >0.2 TPS
 - This step is to load the page of IB
 - ibNewApplicationFormStep2.action <5 second or >0.2 TPS
 - To load the Organization and Information form page
 - ibNewApplicationFormStep3.action <5 second or >0.2 TPS
 - To load the Services and Access type form page
 - ibNewApplicationFormStep4.action <5 second or >0.2 TPS
 - To load the Confirmation page



Performance Report: CR23001 - Enhancement of New Application
 ibBSN_TnC.action <5 second or >0.2 TPS
 To load the Application Declaration form page
 ibNewApplicationFormModal.action <5 second or >0.2 TPS
 To load the Registration Summary page in PDF format
To save and download the Registration Summary page in PDE format
= 10 save and download the Registration Summary page in FDF format
 To load the Posult page
- To load the Result page
I. Perform login service for 50 concurrent users
-Jmeter Execution Date: 23/1/2024
 Test Criteria Perform transaction for 50 concurrent users for 1 loop
 Summary of Testing The performance test result has passed/ not passed the test against the benchmarks that
have been set above (such as number of concurrent users, error percentage, and
throughput).
Declaration Declarati
interceptor token cannot capture and modify the HTTP request and responses.
As token only allow one click per action, token interceptor cannot be applied at RegistrationSummaryPdfDownload.action while Save and Download button can
be click multiple time per action.
 Test Result The IMeter result shows that the system can support 50 concurrent users to perform
transactions with 12.50% error. It takes 181 seconds to complete the transaction
process for all users.
The system is capable of completing a http request within 2.2 s (fastest) and 36.6 s
(slowest).
 IPS (Transaction per Second) The system is capable of performing 0.454 TPS (fastest) and 0.027 TPS (slowest).
• The reasonable ramp-up period without any error is 60 seconds for 50 users.
Summary Report
Name Summary Report
Comments White results to file / Read from file Fileinante Bernen Log
Label # Samples Average Min Max Set. Dev. Enrot % Throughput Received KB/sec BbNewApplicationFormStep1 1 450 0 460 0.00 0.00% 2.2/sec 18.61
Introduced spin status 1 65 0 65 0.00 0.00% 15/0/rec 124.45 When Application form Step Laction 1 75 0 76 0.00 0.00% 12.6/sec 108.75 When Application form Step Laction 1 126 0 126 0.00 0.00% 7.9/sec 61.32 When Application form Step Laction 1 126 0 126 0.00 0.00% 7.9/sec 61.32
International Internat
TOTAL 8 346 0 1940 Solis 22005 22005 22006 4.130
innage 2. sweter rest result - 50 Ennancement of bswebiz users application and organization setup



C. BSNeBiz – Rearrange the Service Listings	
 To simulate the maximum number of requests to perform Enhancement of BSNeBIZ Application and Organization Setup with goal of: Error < 1%. 	
 Criteria of throughput (second / request) & TPS for each flow: ibNewApplicationFormStep1.action <5 second or >0.2 TPS 	
 This step is to load the page of IB 	
 ibNewApplicationFormStep2.action <5 second or >0.2 TPS 	
 To load the Organization and Information form page 	
 ibNewApplicationFormStep3.action <5 second or >0.2 TPS 	
 To load the Services and Access type form page 	
 ibNewApplicationFormStep4.action <5 second or >0.2 TPS 	
 To load the Confirmation page 	
 BSN_TnC.pdf <5 second or >0.2 TPS 	
 To load the Application Declaration form page 	
 ibNewApplicationFormModal.action <5 second or >0.2 TPS 	
 To load the Registration Summary page in PDF format 	
 To save and download the Registration Summary page in PDF format 	
 RegistrationSummaryPdfDownload.action <5 second or >0.2 TPS 	
 To load the Result page 	
I. Perform login service for 50 concurrent users	



-Jmeter Execution Date: 23/01/2024

- Test Criteria
 - Perform transaction for 50 concurrent users for 1 loop
- Summary of Testing

The performance test result has passed/ not passed the test against the benchmarks that have been set above (such as number of concurrent users, error percentage, and throughput).

- Declaration
 - RegistrationSummaryPdfDownload.action caused error because of the interceptor token cannot capture and modify the HTTP request and responses. As token only allow one click per action, token interceptor cannot be applied at RegistrationSummaryPdfDownload.action while Save and Download button can be click multiple time per action.
 - Therefore, RegistrationSummaryPdfDownload.action have error in test result.

Test Result

- o The JMeter result shows that the system can support 50 concurrent users to perform transactions with 12.50% error. It takes 60 seconds to complete the transaction process for all users.
- Throughput (min/request)
 The system is capable of completing a http request within 4.9 s (fastest) and 36.5 s (slowest).
- TPS (Transaction per Second) The system is capable of performing 0.345 TPS (fastest) and 0.101 TPS (slowest).
- The reasonable ramp-up period without any error is 60 seconds for 50 users.

Write results to file / Read from file							
	# Samples	Average				Throughput	
NewApplicationFormStep1							
NewApplicationFormStep2.action							
NewApplicationFormStep3.action							
NewApplicationFormStep4.action							
N_TnC.pdf							
NewApplicationFormModaLaction							
gistrationSummaryPdfDownload.action							
NewApplicationFormStep5.action							



D. BSNeBiz – To Update the Contact Us Screen
To simulate the maximum number of requests to perform Enhancement of BSNeBIZ Application and Organization Setup with goal of:
 Criteria of throughput (second / request) & TPS for each flow: ibNewApplicationFormStep1.action <5 second or >0.2 TPS
 This step is to load the page of IB
 ibNewApplicationFormStep2.action <5 second or >0.2 TPS
 To load the Organization and Information form page
 ibNewApplicationFormStep3.action <5 second or >0.2 TPS
 To load the Services and Access type form page
 ibNewApplicationFormStep4.action <5 second or >0.2 TPS
 To load the Confirmation page
 BSN_TnC.pdf <5 second or >0.2 TPS
 To load the Application Declaration form page
 ibNewApplicationFormModal.action<5 second or >0.2 TPS
 To load the Registration Summary page in PDF format
 To save and download the Registration Summary page in PDF format
 RegistrationSummaryPdfDownload.action <5 second or >0.2 TPS
 To load the Result page
 ibNewApplicationFormStep5.action<5 second or >0.2 TPS
 To load the Registration Summary page in PDF format
 To save and download the Registration Summary page in PDF format
I. Perform login service for 50 concurrent users



-Jmeter Execution Date: 23/01/2024

- Test Criteria
 - Perform transaction for 50 concurrent users for 1 loop
- Summary of Testing

The performance test result has passed/ not passed the test against the benchmarks that have been set above (such as number of concurrent users, error percentage, and throughput).

- Declaration
 - RegistrationSummaryPdfDownload.action caused error because of the interceptor token cannot capture and modify the HTTP request and responses. As token only allow one click per action, token interceptor cannot be applied at RegistrationSummaryPdfDownload.action while Save and Download button can be click multiple time per action.
 - Therefore, RegistrationSummaryPdfDownload.action have error in test result.

Test Result

- o The JMeter result shows that the system can support 50 concurrent users to perform transactions with 11.11% error. It takes 60 seconds to complete the transaction process for all users.
- Throughput (min/request)
 The system is capable of completing a http request within 49.8 s (fastest) and 50.9 s (slowest).
- TPS (Transaction per Second) The system is capable of performing 0.4 TPS (fastest) and 0.025 TPS (slowest).
- The reasonable ramp-up period without any error is 60 seconds for 50 users.

 Summary Report

 Name

 Comments:

 Were realth to file

 File read from f

E. IBAM – To Add Checkbox in Order to Facilitate the "Call Back" has Been Done

To simulate the maximum number of requests to perform Enhancement of BSNeBIZ Application and Organization Setup with goal of:

- Error < 1%.
- Criteria of throughput (second / request) & TPS for each flow:
 - ibPotralAccess.do <5 second or >0.2 TPS
 - This step is to load the page of IB



Perfor	mance Report:	CR23001 - Enhancement of New Application
	0	ibPortalLogin.do <5 second or >0.2 TPS
		 To load the IBAM Home Page
	0	applicationFormSearch.do <5 second or >0.2 TPS
		 To load the Services and Access type form page
	0	applicationFormCreate.do <5 second or >0.2 TPS
		 To load the Application page
	0	applicationFormCreateStep2.do <5 second or >0.2 TPS
		 To load the Application page Bypage
	0	applicationFormCreateStep3.do <5 second or >0.2 TPS
		 To load the Application Organization Detail form page
	0	applicationFormCreateStep4.do <5 second or >0.2 TPS
		 To load the Services page
	0	applicationFormCreateStep5.do <5 second or >0.2 TPS
		 To load the Services page
	0	applicationFormCreateStep6.do <5 second or >0.2 TPS
		 To load the Charges page
	0	applicationFormCreateStep7.do <5 second or >0.2 TPS
		 To load the Charges page
	0	applicationFormCreateStep8.do <5 second or >0.2 TPS
		 To load the Comfirmation page
	0	applicationFormCreateStep9.do <5 second or >0.2 TPS
		 To load the Result page
	I.Perform lo	ogin service for 50 concurrent users
		-



-Jmeter Execution Date:23/01/2024

- Test Criteria
 - Perform transaction for 50 concurrent users for 1 loop

Summary of Testing The performance test result has passed/ not passed the test against the benchmarks that have been set above (such as number of concurrent users, error percentage, and throughput).

• Test Result

- o The JMeter result shows that the system can support 50 concurrent users to perform transactions with 0.00% error. It takes 60 seconds to complete the transaction process for all users.
- Throughput (min/request)
 The system is capable of completing a http request within 17.5 s (fastest) and 2.3 s (slowest).
- TPS (Transaction per Second)
 The system is capable of performing 0.5 TPS (fastest) and 0.057 TPS (slowest).
- \circ The reasonable ramp-up period without any error is 60 seconds for 50 users.

Mame Daniel Banker					
Write results to file / Read from file					
				Throughput	
portall ogin do					
applicationFormCreateStep3-do					
applicationFormCreateStep-Ldo					
applicationFormCreateStep5.do					
applicationFormCreateStep8.do					
applicationFormCreateStep9.do					