



Process Design Document (PDD)

Competitor Product Catalog Data Collection in Bli Bli and Tokopedia

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Document History

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Document Approval Flow

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1. Introduction

1.1 Purpose of the Document

The Process Definition Document outlines the business process chosen for automation using UiPath Robotic Process Automation (RPA) technology.

The document describes the sequence of steps performed as part of the business process, the conditions and rules of the process prior to automation and how they are envisioned to work after automating it, partly or entirely. This specifications document serves as a base for developers, providing them the details required for applying robotic automation to the selected business process.

1.2 Objectives

Competitor Product Catalog Data Collection in BliBli and Tokopedia is a process that is currently performed on ad-hoc basis by Consumer Analytics and Reporting Development Department because it is very manual, repetitive, and time consuming. The department does not have enough resource to focus on this activity on a daily basis which hinders the team from performing more strategic tasks. BliBli and Tokopedia are one of the e-commerce websites in Indonesia that is used as reference to check competitors' product catalog and pricing for data package. Competitors' product catalog and pricing will be used for analytics purposes and by getting the data daily, Telkomsel is able to identify release time, type, price, and offering of competitors' products. BliBli and Tokopedia are selected because of UiPath ease of accessibility on both BliBli and Tokopedia websites. The automation of this process covers daily extraction of competitors' data package information related to package name, package price, and package detail.

Therefore, the business objectives and benefits expected by the team after the automation of the selected business process are:

- Automate competitor data extraction from an e-commerce website
- Reduce employee time to perform repetitive and time-consuming activities in the process
- Obtain up-to-date data about competitors for analytics purposes
- Enable the team to dedicate time to performing more strategic tasks.

To sum up, the business objective is to automate data collection used for pricing analysis, especially for PPMB(Price per Mega Byte) in Telkomsel products compared to competitors. Hence, Telkomsel need to have the most updated data from competitors to give insights for Pricing CoE team and act accordingly in responding to the market.

1.3 Key Contacts

The specifications document includes concise and complete requirements of the business process and it is built based on the inputs provided by the process **Subject Matter Expert (SME)/ Process Owner.**

The **Process Owner** is expected **to review it and provide signoff for accuracy** and completion of the steps, context, and impact and complete set of process exceptions. The names have to be included in the table below.

Role	Name	Contact details (email, phone number)	Notes
Robot User (Process SME)	Rachmawaty	rachmawaty@telkomsel.co.id	Point of contact for questions related to process
	Regita Esyaganitha	Regita_y_esyaganitha@telkomsel.co.id	details & exceptions.
Robot Owner (Department Manager)	Made M Adyatman	Made_M_Adyatman@telkomsel.co.id	
Application Owner (Isyana SFTP)	Ghilman Fatih	Ghilman_faith@telkomsel.co.id	Point of contact for questions related to SFTP
Division General Manager	Mast M Rasyid	Mast_M_Rasyid@telkomsel.co.id	Escalations, Delays etc.
Head of Business Solution Management Group	Jajang Munajat	Jajang_Munajat@telkomsel.co.id	
Project Owner	Ika Rahmawati	Ika_Rahmawati@telkomsel.co.id	Point of contact
	Donatus Desta Kreszyantody	donatus_d_kreszyantody@telkomsel.co.id	for questions related to
	Wira Manuara	wira_manuara@telkomsel.co.id	technical details

1.4 Minimum Prerequisites for Automation

- 1. Filled in Process Design Document
- 2. Test Data to support development
- 3. Target applications versions in UAT / Development and Production should be the same
- 4. User access and user accounts creations (licenses, permissions, restrictions to create accounts for robots)

- 5. Credentials (user ID and password) required to logon to machines and applications
- 6. Dependencies with other projects on the same environment
- 7. Standardized input (Parameter.xlsx, User_Setting.xlsx, Competitor Product Catalog Data Collection Template.xlsx)

2. As-Is Process Description

2.1 Process Overview

General information about the process selected for RPA prior to automation.

#	Item	Description
1	Process full name	Competitor Product Catalog Data Collection in BliBli and Tokopedia
2	Process Area	Business Solution Management Group
3	Division / Department	Business Architecture and Service Integration Division / Consumer Analytics & Reporting Development Department
4	Process short description (operation, activity, outcome)	For the full context of the process, please refer to section 1.2.
		This process automates the extraction of competitors' data package information in both BliBli and Tokopedia websites. Data package information includes package name, package price, and package detail. All extraction information is summarized into an Excel report.
5	Role(s) required for performing the process	Consumer Analytics & Reporting Development Department Staff
6	Process schedule and	AS-IS:
	frequency	Monday – Friday, 08:00 – 17:00 JKT (Ad-hoc)
		, ,
		TO-BE:
		Monday - Sunday, Trigger once/day, 11:00 JKT
7	# of items processes	546 data packages / day
	/reference period	
8	Average handling time per item	1 minute / package
9	Peak period (s)	N/A
10	Transaction Volume During	N/A
	Peak period	
11	Total # of FTEs supporting	Current FTE: 2.2
	this activity	
		FTE Calculation:
		(Number of data packages/day * 30 * highest time to handle request)
		* 12 / (Total FTE) = (546 * 1) * 30 *12 / (88,320) ~ 2.2

#	Item	Description
		Total FTE = 2.2
12	Automatable FTE	% Automation Potential: 100%
		Automatable Capacity Creation (FTE): 100% * 2.2 = 2.2 FTE
13	Expected increase of volume	N/A
	in the next reference period	
14	Level of exception rate	N/A
15	Input data	Manual method
		AS-IS:
		Mobile phone number of every operator
		<u>TO-BE:</u>
		1. Parameter.xlsx
		2. User_Setting.xlsx
		Competitor Product Catalog Data Collection Template.xlsx
16	Output data	Manual method
		AS-IS:
		Output Report
		TO-BE:
		BliBli_Tokopedia_ <yyyymmdd>.csv (CSV file)</yyyymmdd>
17	Process Complexity	Medium
18	Intelligent Character	No
	Recognition	

2.2 Applications Used in the Process

The table includes a comprehensive list all the applications that are used as part of the process automated, at various steps in the flow.

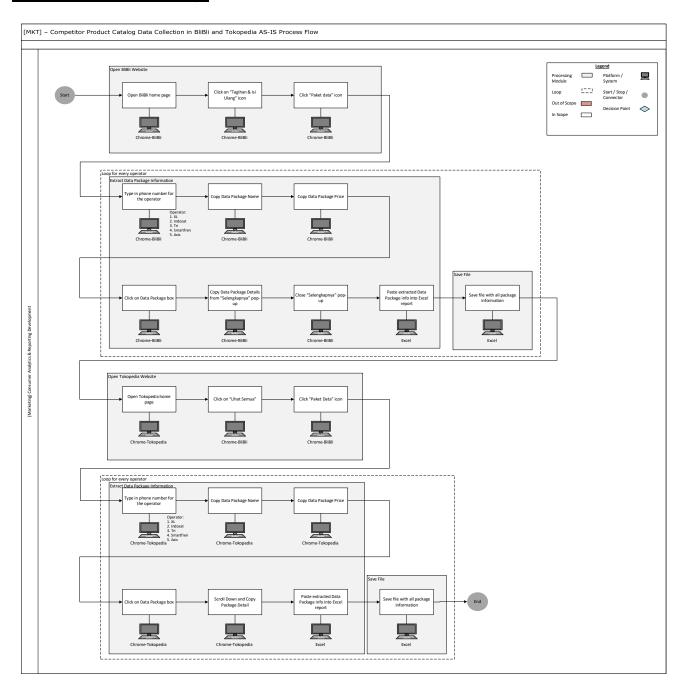
#	Application name & version	Robot Role	Syste m Langu age	Thin/ Thick Client	Environment / Access method	PIC	Robot Role	Comments
1	Ms. Excel Version 2013	Generate report	EN	Thick Client	Production / Virtual Machine	Rochman S. Basyari	No specific role required	To append extracted data from BliBli and Tokopedia websites
2	Ms. Outlook Version 2013	Send notification email	EN	Thick Client	Production / Virtual Machine	Rochman S. Basyari	No specific	To send email to

;	# Application name & version	Robot Role	Syste m Langu age	Thin/ Thick Client	Environment / Access method	PIC	Robot Role	Comments
							role required	Robot Users
	Google Chrome	Crawling in BliBli and Tokopedia websites	EN	Thick Client	Production / Virtual Machine	N/A	Read, Update, Export	To access BliBli and Tokopedia websites BliBli Website: https://www. blibli.com/di gital/p/paket -data Tokopedia Website: https://www. tokopedia.c om/paket- data/

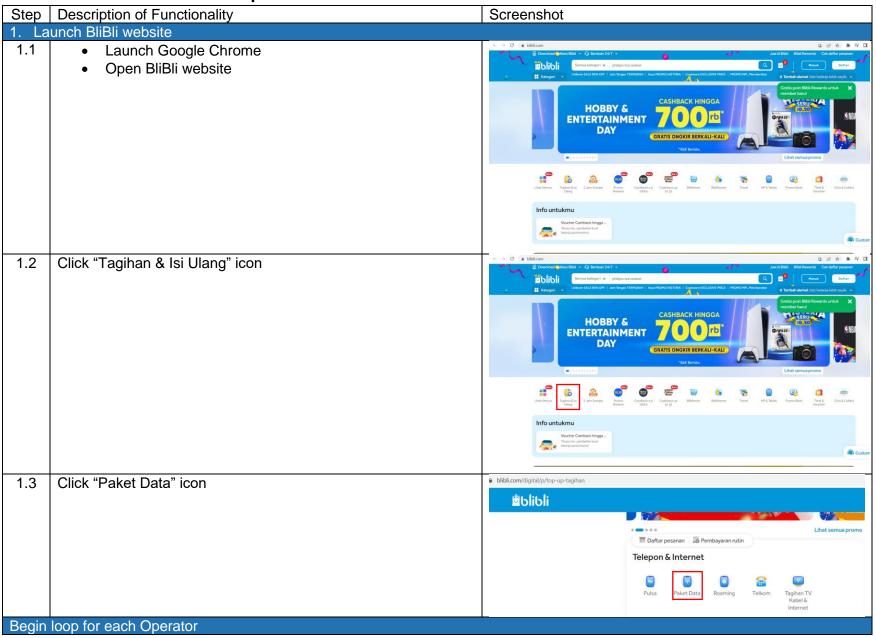
2.3 High Level As-Is Process Map:

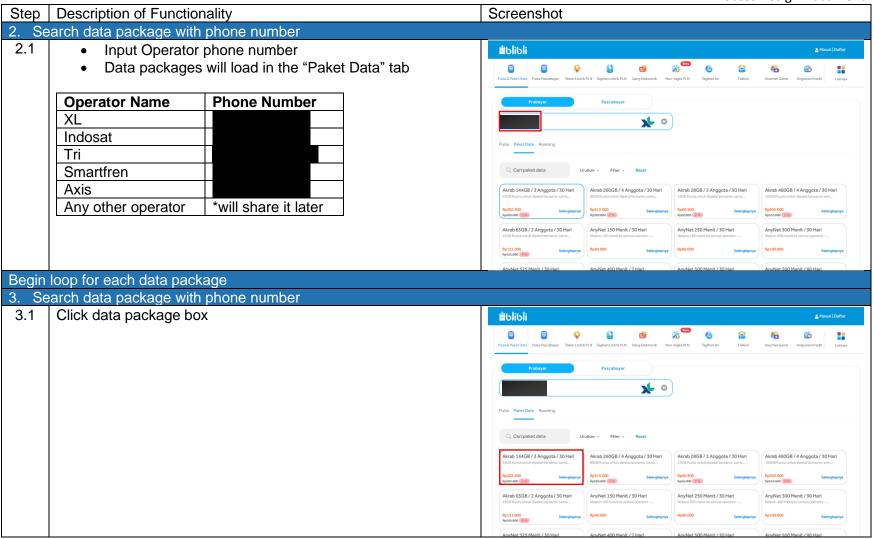
This chapter depicts the As-Is business process at a High-Level to enable developers to have a high-level understanding of the current process.

Detailed As-Is Process Map:

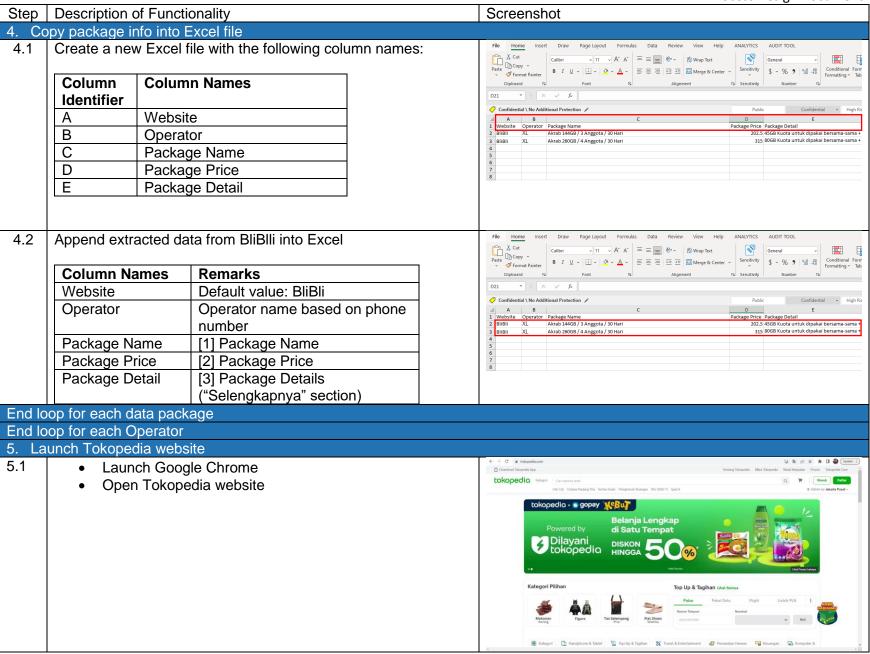


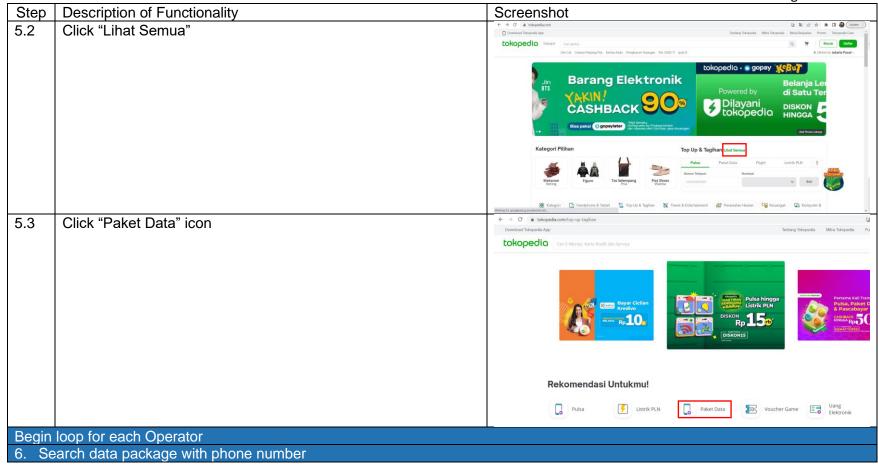
2.4 Detailed As-Is Process Steps



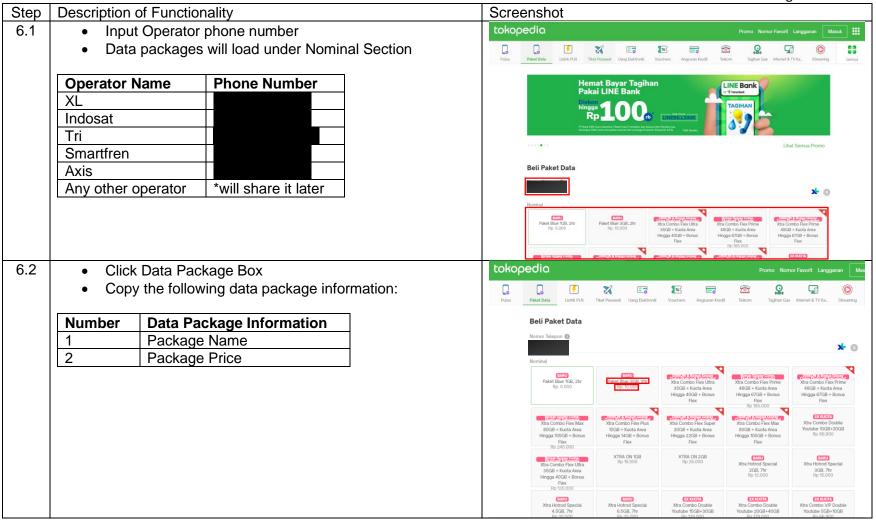


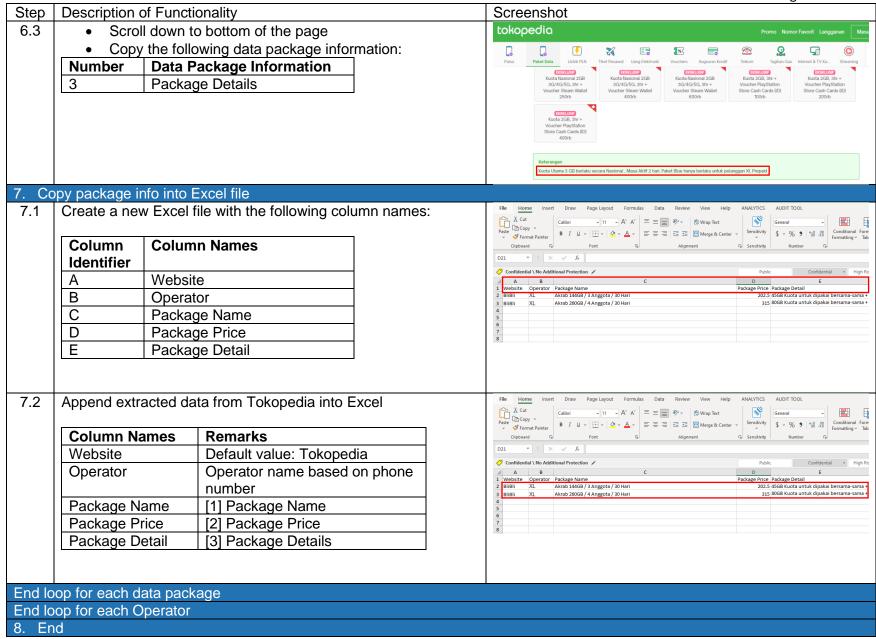
Step	Description of Functionality	Screenshot
3.2	Copy the following data package information:	Bplippi ■ Manak Dofter
0.2	Number Data Package Information 1 Package Name 2 Package Price	Putas Fried Data Roaming Putas Fried Data Roaming Putas Paled Data Roaming Arrab 260G8 / 4 Anggota / 30 Harri ### 1008 Roam Indiana Bertamera arra. Putas Paled Data Roaming Arrab 260G8 / 4 Anggota / 30 Harri ### 1008 Roam Indiana Bertamera arra. Putas Paled Data Roaming Arrab 260G8 / 4 Anggota / 30 Harri ### 1008 Roam Indiana Bertamera arra. Putas Paled Data Roaming Arrab 260G8 / 4 Anggota / 30 Harri ### 1008 Roam Indiana Bertamera arra. Putas Paled Data Roaming Arrab 260G8 / 4 Anggota / 30 Harri ### 1008 Roam Indiana Bertamera arra. Putas Paled Data Roaming Arrab 260G8 / 4 Anggota / 30 Harri ### 1008 Roam Indiana Bertamera arra. Putas Paled Data Roaming Arrab 260G8 / 4 Anggota / 30 Harri ### 1008 Roam Indiana Bertamera arra. Putas Paled Data Roaming Arrab 260G8 / 4 Anggota / 30 Harri ### 1008 Roam Indiana Bertamera arra. Putas Paled Data Roaming Arrab 260G8 / 4 Anggota / 30 Harri ### 1008 Roam Indiana Bertamera arra. Putas Paled Data Roaming Arrab 260G8 / 4 Anggota / 30 Harri ### 1008 Roam Indiana Bertamera arra. Putas Paled Data Roaming Arrab 260G8 / 4 Anggota / 30 Harri ### 1008 Roam Indiana Bertamera arra. Putas Paled Data Roaming Arrab 260G8 / 4 Anggota / 30 Harri ### 1008 Roam Indiana Bertamera arrab. Putas Paled Data Roaming Arrab 260G8 / 4 Anggota / 30 Harri ### 1008 Roam Indiana Bertamera arrab. Putas Paled Data Roaming Arrab 260G8 / 4 Anggota / 30 Harri ### 1008 Roam Indiana Bertamera arrab. Putas Paled Data Roaming ### 1008 Roam Indiana Bertamera arrab. Putas Paled Data Roaming ### 1008 Roam Indiana Bertamera arrab. Putas Paled Data Roaming ### 1008 Roam Indiana Bertamera arrab. Putas Paled Data Roaming ### 1008 Roam Indiana Bertamera arrab. Putas Paled Data Roaming ### 1008 Roam Indiana Bertamera arrab. Putas Paled Data Roaming ### 1008 Roam Indiana Bertamera arrab.
3.3	Click "Selengkapnya"	Another 526 Mentil / 30 Hard Carri paket data
3.4	Copy the following data package information: Close pop-up box Number	Amobilet 300 Menit / 30 Hard Amobilet 500 Menit / 30 Hard Amobil





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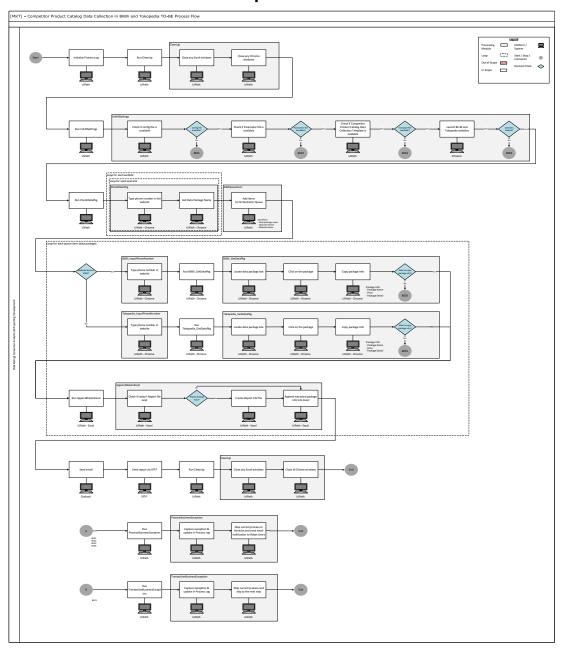
2.5 Input Data Description

Step	Sample (Print- screen)	Input type	Location	Inputs are standard? (Yes/ No)	Inputs are structured? (Yes/ No)	Data to be used from	Path of input File
1.1	See 2.4 Detailed As-Is Process: Step 1.1	[As-Is] Mobile phone number of every operator [To-Be] Parameter.xlsx	[As-Is] Shared folder [To-Be] Robot Shred Folder	[As-Is, To- BE] Yes	[As-Is, To- BE] Yes	Robot User	N/A
1.2	See 2.4 Detailed As-Is Process: Step 1.1	[To-Be] Competitor Product Catalog Data Collection Template.xlsx	[To-Be] Robot Shred Folder	[To-BE] Yes	[To-BE] Yes	Robot User	N/A

3. To-Be Process Description

This chapter highlights the expected design of the business process after automation.

3.1 To-Be Detailed Process Map



3.2 Detailed To-Be Process Steps

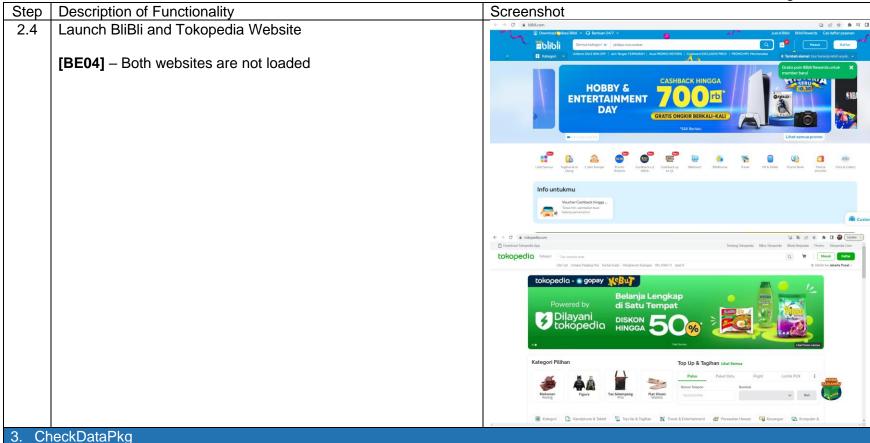
This chapter depicts the To-Be business process in detail to enable the Developer to build the automated process. All the process log will be captured and recorded in Log Excel File.

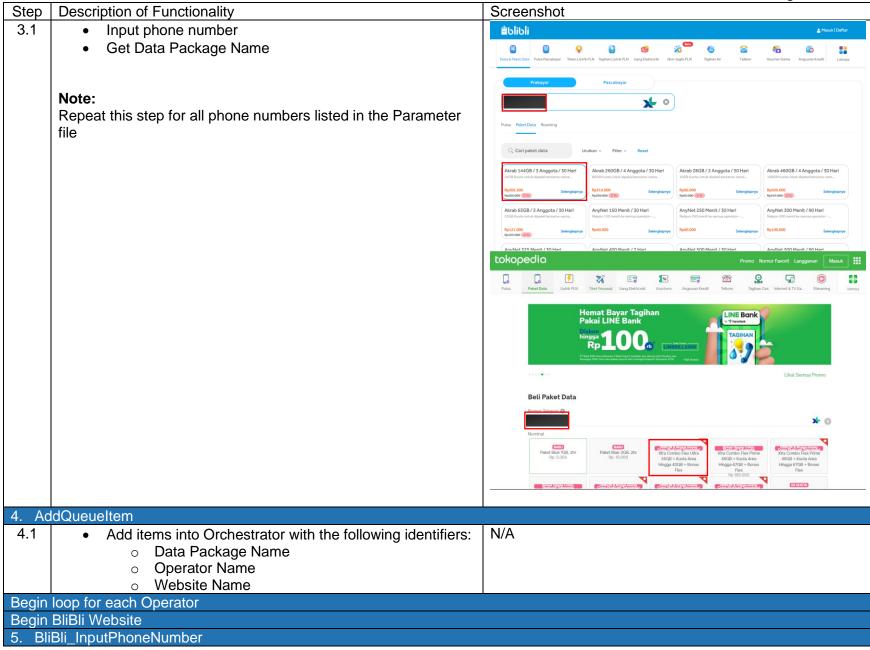
Summary Table

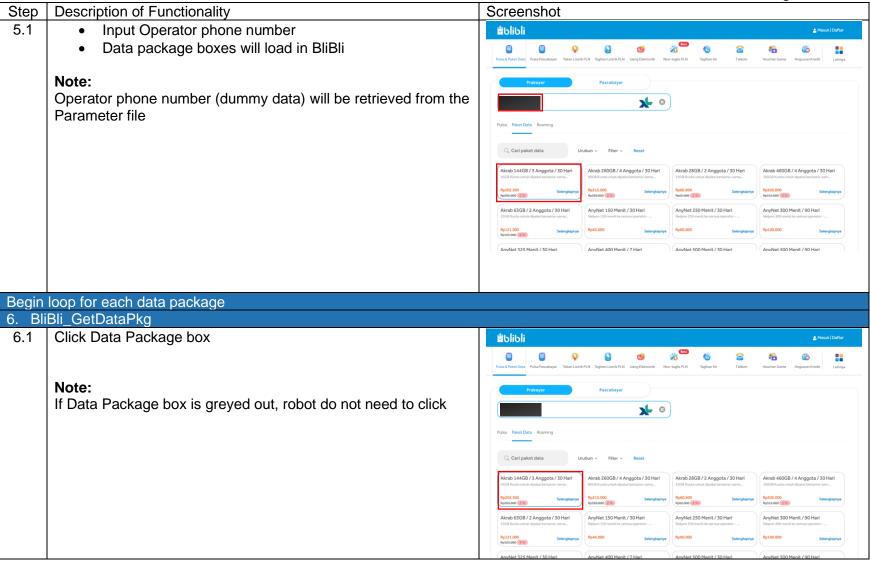
Task Name	Description	Process Steps Covered
Main	This is the entry point	All
CleanUp	Close all MS Excel, Chrome windows	1
InitAllSettings	Initiate creation of mapping configuration file	2
CheckDataPkg	Check available data packages in BliBli and Tokopedia to use as queue items	3
AddQueueltem	Send item to Orchestrator queue	4
BliBli_InputPhoneNumber	Input phone number in BliBli to search data packages	5
BliBli_GetDataPkg	Get package name, price, and details from each data packages from BliBli website	6
Tokopedia_InputPhoneNumber	Input phone number in Tokopedia to search data packages	7
Tokopedia_GetDataPkg	Get package name, price, and details from each data packages from Tokopedia website	8
AppendDataInExcel	Append retrieved data into an Excel CSV file	9
SendOutputReport	Send output report via email and SFTP to users after transactions have been completed	10
TransactionBusinessException	Capture exception logs and proceed to run the next transaction	11
ProcessBusinessException	Capture exception logs, send exception notification email and terminate the robot	12

Detailed Table

Step	Description of Functionality	Screenshot		
1. Ru	in CleanUp			
1.1	Close any Excel windows	N/A		
1.2	Close any Chrome windows	N/A		
2. Ini	tAllSettings			
2.1	Check if config file is available, create config setting and asset mapping	N/A		
	[BE01] – Config file is not available			
2.2	Check if Parameter file is available [BE02] – Parameter file is not available	File Home Insert Draw Page Layout Formulas [Calibri		
		4 Tri 5 Smartfren 6 Axis 7		
2.3	Check if Competitor Product Catalog Data Collection Template is available	File Home Insert Draw Page Layout Formulas Data Review View Help ANALYTICS AUDIT TOOL A Cut Calibri 11 A A A Faste Format Painter B I U V H V A A V E E E E E E Merge & Center V Sensitivity \$ ~ %		
	[BE03] – Competitor Product Catalog Data Collection Template is not available	Clipboard F3 Font F3 Alignment F3 Sensitivity Nun E12		

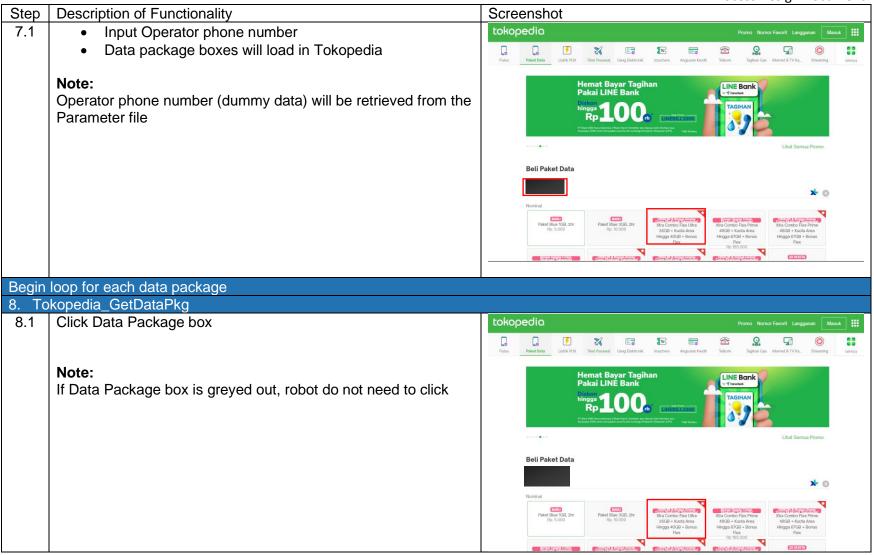






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Cton	Dogorin	tion of Function	oolity	Caraanahat
Step		tion of Function		Screenshot
6.2			Name and Package Price	□ blibli a Masuk Dutter
	• (Click "Salengka	apnya"	
	• (Copy Package	Detail	Pulsa & Paker Data Pascabayar Token Listrik PLN Taghan Listrik PLN Uang Deletronik Non-taglis PLN Taghan Air Tellom Voucher Game Angsuran Kredit Lalinnya
		Close pop-up b		Prebayar Pascabayar
				★ ⊗
	Num.	Data	Remarks	
	110	Package		Pulsa Paket Data Roaming
		Information		C, Cari paket data Urutkan v Filter v Reset
	1	Package	Available for all data package	Akrab 144GB / 3 Anggota / 30 Hari Akrab 260GB / 4 Anggota / 30 Hari Akrab 28GB / 2 Anggota / 30 Hari Akrab 460GB / 4 Anggota / 30 Hari
	'	Name	Available for all data package	ANIBU 144001 7 ANIGORAT 2011 MARIE 20000 7 A NIGORAT 2011 MARIE 2
	2		Available for all data package	Rp202.500 Selenglapnya Rp315.000 Selengl
	I I	Original	Available for all data package	AlryNet 350 Menit / 30 Hari 2/30 Kusta untuk dipikal bersama-sama Nelpon 150 menit k semua operator
		Price		Rp121.000 Selengkapnya Rp40.000 Selengkapnya Rp40.000 Selengkapnya Rp40.000 Selengkapnya Rp100.000 Selengkapnya
	3	Discounted	If discounted is not available, set	Amobiet 325 Menit / 10 Hari Amobiet 400 Menit / 7 Hari Amobiet 500 Menit / 30 Hari Amobiet 500 Menit / 30 Hari
		Price	Package Details as "No discounted	<u>illoli</u>
			price found"	Novite Passage
	4	Package	If data package box is not available,	ORDALIZALIA X
		Details	set Package Details as "No package	Rulas Polet Data Raming.
			detail found"	Q, Carl pulset fails Akrab 14408 / 3 Anggota / 30 Harl
				Alarab 14408 / 3 Anggota / 30 Heat 4008 flucts untha dipola bename-same + Bonus flucts th blad finigs 31008 per Anggota - Unimited Kipota Agilia i Unimited Hopota SPIS ke
	[BE06]	Failed to copy	data package information	Spitt Still Stringform Spitt Start
				Asset 63GB/2 Anggotal / 39 Hart Anyfielt 559 Ment / 30 Hart Anyfielt 550
				Rest COS being days Rent COS being days Rent COS being days Rent COS Scientific Rent COS Being days Rent COS Being days
				Any/lest 325 Monit / 50 Mon Any/lest 300 Monit / 71 Mon Any/lest 300 Monit / 50 Monit / 50 Monit Any/lest 300 Monit Any/
				Boltisto Somplanya Rollisto Somplanya Rollisto Somplanya Rollisto Somplanya
End of	BliBli W	ehsite		Manufacture and American Company of the Company of
		edia Website		
			mhor	
7. 10	kopedia_	_InputPhoneNu	mber	



Ston	Step Description of Functionality							00000 200.8	gii Document
8.2			Name and Package Price	tokog	enshot pedio			Promo Nom	or Favorit Langganan Mas
0.2				`		❤⁄ 📻	1 %3 ==		
	Scroll Down to bottom of the pageCope Package Details			Pulsa	Paket Data Listrik PLN	Tiket Pesawat Uang Elektronik	Vouchers Angsuran Kredi	Telkom Tagihan Gas	Internet & TV Ka Streaming
	Num. Data Remarks				Beli Paket Data				
	Package Information		Kemarks						
									* 3
	1	Package	Available for all data package		Nominal	BARU	DISKON & Horus Gopsy	Bonus Gogay Coins,	DISKUN & Bopus Gopsy
		Name	Available for all data package		Paket Blue 1GB, 2hr Rp. 5.000	Paket Riue 3GR, 2hr Rp. 10.000	Xtra Combo Flex Ultra 35GB + Kuota Area Hingga 40GB + Bonus	Xtra Combo Flex Prime 48GB + Kuota Area Hingga 67GB + Bonus	Xtra Combo Flex Prime 48GB + Kuota Area Hingga 67GB + Bonus
	2	Original	Available for all data package			V	Flex	Flex Rp 185.000	Flex
	_	Price	, transportor an data paolitage		Xtra Combo Flex Max 80GB + Kuota Area	Zira Combo Flex Plus 10GB + Kuota Area	Xtra Combo Flex Super 20GB + Kuota Area	Xtra Combo Flex Max 80GB + Kuota Area	Xtra Combo Double Youtube 10GB+20GB Rp 86.900
	3	Discounted	If discounted is not available, set		Hingga 105GB + Bonus Flex Rp 245.000	Hingga 14GB + Bonus Flex	Hingga 22GB + Bonus Flex	Hingga 105GB + Bonus Flex	Rp 86.900
		Price	Package Details as "No discounted		Somus Copay Coms. Exhibiting to coooling Xtra Combo Flex Ultra	XTRA ON 1GB Rp 15.000	XTRA ON 2GB Rp 25.000	Xtra Hotrod Special	Xtra Hotrod Special
			price found"		35GB + Kuota Area Hingga 40GB + Bonus Flex			2GB, 7hr Rp 12.000	3GB, 7hr Rp 15.000
	4	Package	If data package box is not available, set Package Details as "No package		Rp 135,000 BARU Xtra Hotrod Special	Xtra Hotrod Special	2X KUOTA Xtra Combo Double	2X KUOTA	2X KUOTA
		Details			4.5GB, 7hr Rp 20.000	Xtra Hotrod Special 6.5GB, 7hr Rn 25.000	Xtra Combo Double Youtube 15GB+30GB Ro 129 000	Xtra Combo Double Youtube 20GB+40GB Rp 179 000	Xtra Combo VIP Double Youtube 5GB+10GB Rp. 66.900
			detail found"	tokop	pedia			Promo Nomo	or Favorit Langganan Masu
					<u>_</u>	%	1 %C	2 2	
				Pulsa	Paket Data Listrik PLN EXSKLUSIF	Tiket Pesawat Uang Elektronik	Vouchers Angsuran Kredit	Telkom Tagihan Gas	Internet & TV Ka Streaming EXSIXLUSIF
	[BE06] Failed to copy data package information				Kuota Nasional 2GB 3G/4G/5G, 3hr + Voucher Steam Wallet 250rb	Kuota Nasional 2GB 3G/4G/5G, 3hr + Voucher Steam Wallet 400rb	Kuota Nasional 2GB 3G/4G/5G, 3hr + Voucher Steam Wallet 600rb	Kuota 2GB, 3hr + Voucher PlayStation Store Cash Cards (ID) 100rb	Kuota 2GB, 3hr + Voucher PlayStation Store Cash Cards (ID) 200rb
					EXSKLUSIF	4000	600rb	TOURD	200fb
					Kuota 2GB, 3hr + Voucher PlayStation Store Cash Cards (ID)				
					400rb				
					Keterangan				
					Kuota Utama 3 GB berlaku s	secara Nasional , Masa Aktif 2 hari. P	^p aket Blue hanya berlaku untuk pe	langgan XL Prepaid	
		dia Website							
	pendDat	alnExcel							
9.1		Check if today's	•	N/A					
			't exist, create a new CSV file using the						
	(Competitor Prod	duct Catalog Data Collection Template						
	Column Names								
	Website								
	Operator Package Name								
		ge Detail							
		al Price							
	Discou	ınted Price							

Step	Description of Functi	ionality	Screenshot
9.2	Note:	e will be appended separately ne: BliBli_Tokopedia _ <yyyymmdd>.csv nata from BliBli or Tokopedia into each row in</yyyymmdd>	File Home Insert Draw Page Layout Formulas Data Review View Help ANALYTICS AUDIT TOOL **A Cut Calibri
	CSV file		Format Painter Format For
	Column Names	Remarks	F7 * : X \sqrt{fx}
	Website	Default value: BliBli or Tokopedia	▲ A B C D E F
	Operator	Operator name based on phone	1 Website Operator Package Name Package Price Discounted Price Package Detail BIIBII Axis Axis BRONET 24Jam 30 Hari [3GB] 33 1 Axis BRONET 24Jam 30 Hari [3GB] Kuota 3GB 9 Massa aktif 30 Hari 24 Jam
		number (from Parameter file)	Main Kuota 1GB 1 hari selama 24Jam di
	Package Name	Package Name	Tokopedia Axis BRONET 24 Jam 1GB 1 Hr + Bonus Lokal Kuota 5 No discounted price found Judges Sepal dengan area/lokasi customer. 3 Cek Lokal Kuota di website axis.co.id
	Original Price	Package Price	
		Data Validation	
		Without "Rp"	
		1	
	Discounted Price	Without decimals Package Price	
	Discounted Frice	Package Filce	
		Data Validation	
		Without "Rp" Without decire le	
	Package Detail	Without decimals Package Detail	
	i ackage Detail	i ackage Detail	
End lo	op for each data pack	kage	
	op for each Operator		
10. Se	ndOutputReport		
10.1		ocess log in designated folder	N/A
10.2	Send email to Robot	User for completion of bot run	N/A
	Fmail Recipient: ~F	From User Setting.xlsx>	
	Email Subject: <fre< td=""><td></td><td></td></fre<>		
	Email Body: <from< td=""><td></td><td></td></from<>		
	Liliali Body. SFIOIII	Comig.xiax2	
	Attachment:		

Confidential

PDD – 175– Competitor Product Catalog Data Collection in Bli Bli and Tokopedia

		1 Toccas Design Document
	ProcessLog_<yyyy-mm-dd_hhmm>.csv</yyyy-mm-dd_hhmm>BliBli_Tokopedia _<yyyymmdd>.csv</yyyymmdd>	
10.3	Send report via SFTP	N/A
11. Cl	eanup	
11.1	Close any Excel windows	N/A
11.2	Close any Chrome windows	N/A
12. Tr	ansactionBusinessException	
12.1	Capture the Transaction Business Exception remark and write Process Log with status as "Business Exception"	N/A
13. Pr	ocessBusinessException	
13.1	Capture the Process Business Exception remarks and write Process Log with status as "Fail"	N/A
14.2	Terminate the robot and send email	N/A
14. En	nd	

3.3 Parallel Initiatives/ Overlap (if applicable)

This chapter captures the proposed Business, Process & System changes in near future and its impact

S. No	Initiative Name	Process Step(s) where it is identified	Impact on current automation request? How?	Expected Completion Date	Contact person for more details
N/A	N/A	N/A	N/A	N/A	N/A

3.4 In Scope for RPA

The as-is activities in scope of RPA, are listed here:

Steps 1.1 – 4.2 (Refer 2.4 Detailed As-Is Process Steps)

3.5 Out of Scope for RPA

The as-is activities **OUT of scope of RPA**, are listed here:

Sub- process (if case)	•	Reasons for Out of Scope*	Impact on the To-Be	Possible measures to be taken into consideration for future automation
N/A	N/A	N/A	N/A	N/A

3.6 Business Exceptions Handling

The Business Process Owner and IA Consultant are expected to document below all the business exceptions identified in the automation process. These can be classified as:

Known	Unknown
Previously encountered. A scenario	New situation never encountered before. It can be caused by external
is defined with clear actions and	factors. Cannot be predicted with precision, however if it occurs, it must
workarounds for each case.	be communicated to an authorized person for evaluation.

Known Exceptions

The table below reflects all the business process exceptions captured during the process evaluation and documentation. These are **known exceptions**, met in practice before. For each of these exceptions, define a corresponding expected action that the robot should complete if it encounters the exception.

BE#	Exception name Step Parameters		Action to be taken	
01	Config file is not available	Step 2.1	Config file.xlsx	Bot will log error to check the Config file, send exception email and stop processing. Robot user to inform IT support to check Config file availability in Shared folder
02	Parameter file is not available	Step 2.2	Parameter.xlsx	Bot will log error to check the Parameter file, send exception email and stop processing. Robot user to check file availability in Shared folder
03	Competitor Product Catalog Data Collection Template is not available	Step 2.3	Competitor Product Catalog Data Collection Template.xlsx	Bot will log error to check the Competitor Product Catalog Data Collection Template file, send exception email and stop processing. Robot user to check file availability in Shared folder
04	Both websites are not loaded	Step 2.4	BliBli and Tokopedia website	Bot will log error to check both websites, send exception email and stop processing. If only one website is not loaded. Robot will log error and continue the process. Robot user to check if both website is up and running
05	Failed to copy data package information	Step 6.2, 8.2	BliBli and Tokopedia website	Bot will log error and skip to the next step Robot user to check if website UI has changed and inform IT.

Unknown Exceptions

For all the other unanticipated or unknown business (process) exceptions, the robot should:

Send an email notification to Robot User and error message screenshot attached.

3.7 Application Error and Exception Handling

A comprehensive list of all errors, warnings or notifications should be consolidated here with the description and action to be taken, for each, by the Robot.

Errors identified in the automation process can be classified as:

Area	Known	Unknown
Technology/ Applications	Experienced previously, action plan or workaround available for it.	New situation never encountered before or may happened independent of the applications used in
		the process.

Known Errors or Exceptions

The table below reflects all the errors identifiable in the process evaluation and documentation.

For each of these errors or exceptions, define a corresponding expected action that the robot should complete if it is encountered.

#	Error name	Step	Parameters	Action to be taken
1	Application	Any step	Error	Recover & retry for maximum 3 times
	Crash /		message	Close the applications and run the sequence again
	Internal			
	Server Error			

Unknown Errors and Exceptions

For all the other unanticipated or unknown application exceptions/errors, the robot should:

Send an email notification to Robot User and error message screenshot attached.

3.8 Reporting

#	Report	Update	Detai	ls		Monitoring Tool to
4	type	frequency	CCV	filomomou I	at data and time a farmer t	visualize the data CSV file saved in
1	Process Logs	<u> </u>				Shared Folder: \\Robot\Process Log
			No	Column Name	Data	
			1.	ID	Process ID	
			2.	Description	Process Name	
			3.	TransactionID	Data Package Name_YYYY-MM-DD HH:mm:ss	
			4.	StartTime	Timestamp start time; format: YYYY-MM-DD HH:mm:ss	
			5.	EndTime	Timestamp end time; format: YYYY-MM-DD HH:mm:ss	
			6.	Status	SUCCESS / FAIL / BUSINESS EXCEPTION	
			7.	ErrorRemark	Exception information	
			8.	RobotID	RobotID	
			9.	ComputerID	Machine Name	
			10.	Requestor	Robot User's email address	
			11.	Directorate	Directorate Name	
			12.	Group	Group Name	
			13.	Division	Division Name	
			14.	Department	Department Name	
			15.	Case_Creation_Time	Timestamp when the bot receives data. Format: yyyy-MM-dd HH:mm:SS	
2	Competitor	Robot	CSV	file name:		CSV file sent to Robot
	Product Catalog	schedule	BliBli_	_Tokopedia_ <yyyym< td=""><td>MDD>.csv</td><td>User and saved in Shared Folder:</td></yyyym<>	MDD>.csv	User and saved in Shared Folder:
	Data Collection		No	Column Name	Data	\\Robot\Process Log
	Template		1.	Website	BliBli or Tokopedia	
	·		2.	Operator	Operator name based on phone number	
			3.	Package Name	Package Name	
			4.	Original Price	Original Package Price	
			5.	Discounted Price	Discounted Package Price	
			6.	Package Detail	Package Detail	

4. Other Observations

No other observations

5. Additional Sources of Process Documentation

If there is additional material created to support the process automation please mention it here, along with the supported documentation provided.

	Additional Process Documentation	
Configuration file	Config.xlsx	X ≡ Config.xlsx
User Setting	User_Setting.xlsx	User_Setting.xlsx
Parameter file	Parameter.xlsx	Parameter.xlsx
Competitor Product Catalog Data Collection Template	Competitor Product Catalog Data Collection Template.xlsx	Competitor Product Catalog Data Collect