	Input					
Use Case	name	Туре	Count	Operation Method	Validation	
	Card Number	String	1	single value	16 char, not null, numbers only	
1. checks account balance	Password	string	1	single value	match as password exist	
	option	char	1	single value	within choices	
	Card Number	string	1	single value	16 char, not null, numbers only	
	Password	string	1	single value	match as password exist	
2. withdraws money	option	char	1	single value	within choices	
	withdraws money amount	int	1	single value	not null, not more than 500 OMR	
	Password	string	1	single value	match as password exist	
3. User logs into email	email address	string	1	single value	already sign up	
account	Authentication code	string	1	single value	code in same email address	
	option	char	1	single value	within choices	
A Haaranda a da a da ata	image	int	1	Multible values	within specific frame	
4. User uploads a photo to a social media profile	select option	char	1	single value	within choices	
to a social media profile	option	char	1	single value	within choices	
	file music name	string	1	single value	.mp3 extention	
5. User plays a music	stop option	char	1	single value	wthin choices	
file using a music player	player option	char	1	single value	wthin choices	
	select option	char	1	single value	wthin choices	
6. User sets a reminder	date and time	DateTime	1	single value	date and time correct formate , not null	
on a smartphone	place name	double	1	single value	not unll	
	movie ticket code number of books movie	string	1	single value	code exist	
7. User books a movie	ticket	int	1	single value	not null, int format	
ticket online	price	string	1	single value	not null	

	confirm option	char	1	single value	within choices
8. User searches for a					
recipe on a cooking app	recipe name	string	1	single value	not null
	images	int	>1	Multiple values	within specific frame
	DurationEachImage	double	1	single value	not null, just number
9. User uploads multiple	width	double	1	single value	not null, just number
images to generate a slideshow video					
Sildeshow video	hight	double	1	single value	not null, just number
	riigiit	double	'	Single value	not nan, just namber
	select option (for select in	cnar	1	single value	within choices
	option (for next button)	char	1	single value	within choices
	order name	string	1	single value	not null
	number of order	int	1	single value	just number
10. User places an	confirm option	char	1	single value	within choices
online food delivery	price	double	1	single value	not null
order	option (for next button)	char	1	single value	within choice
	annaintment data	DeteTime	4	aingle value	not null data formate
44 Hoomoobodules si	appointment date	DateTime		single value	not null, date formate
11. User schedules an appointment with a	patient's name	string		single value	not null
doctor through a health	patient's phone number	string	1	single value	not null, 8 digit
portal	doctor name	string	1	single value	not null
	dottor flame	oung		origio valuo	notrail
	medical condition	string	1	single value	not null

	T				I
	event title	string		aingle value	not null
				single value	
12. User creates an	event date	DateTime	1	single value	not null, date formate accepted
event and invites friends	event location	string	1	single value	not null
on a calendar app	event description	string		single value	not null
	friends emails	string	>1	multivalues	not null, email formate accepted
	option	char	1	single value	not null
	loan type	string		single value	Not null
		Junig		onigio valao	Troc rian
	customer full name	string	1	single value	Not null
	Nationality	otring	1	ainale value	Not pull, only number
	National ID	string		single value	Not null, only number
	National ID	string	1	single value	Not null, only number Not null, date and time valid
13. User applies for a	Date of Birth	DateTime	1	single value	formate
loan via online banking	Gender	string	1	single value	Not null
	Father's name	string	· ·	single value	Not null
	Age	int		single value	Not null, two digit
	residency types	string	1	single value	Not null
	No. of dependents	string	1	single value	Not null
	educational qualification	string	1	single value	Not null
	Residence phone	string	1	single value	Not null
	email ID	string	1	single value	Not null, email valid formate
	course code	string	1	single value	not null
	student name				not null
14. User registers and		string		single value	
enrolls in a university	student ID	string	<u> </u>	single value	not null , 8 digit
course	course price	string	1	single value	not null
	number of months	int		single value	not null
	size	double	>1	multible values	not null
	color	string	>1	multible values	not null
15. User customizes and	design	string	>1	multible values	not null
purchases a T-shirt from		int	>1	multible values	not null, >0
•	1				

an online store	User Name	string	1	single value	not null
	User Email	string	1	single value	not null, email eccepted formate
	Bank card number	int	1	single value	not null, 12 digit, only number
16. User installs	package command	string	>1	multi values	Not null, valid command syntax
software using a					
package manager					
17. User reports a bug	bug title	string		single value	not null
on a project	Priority	string	1	single value	not null, within option
management platform	bug type	string		single value	not null
	bug description	string	1	single value	not null
					Advanced Le
18. User uploads a	Since the second	- 4	4	-to-all-cooling	
resume and receives job	resume file	string	1	single value	not null, pdf exccept extention
recommendations					
		4 .	. 4	NA III. I	N. c. II
19. User submits tax	form	string	>1	Multiple values	Not null
forms online and gets real-time calculations	tax value				
Teal-time calculations	tomporature concer				
	temperature senseor reader	double	1	single value	not null, validFormate
20. User uses a smart	reader	double	<u>'</u>	Single value	not nan, vanar office
thermostat to schedule					
home temperature					
21. User trains a custom					
Al model on uploaded	data	string	>1	Multiple values	not null
data					
22. User tracks fitness	fitness type	string	1	single value	not null, wihin selection
data and gets	country	string		single value	not null, within selection
personalized workout	Age	int	1	single value	not null, just int value
suggestions	job type	string	1	single value	not null
	hotel name	string	1	single value	not null within choice
	to city	string	1	single value	not null

23. User reserves a	car type	string	1	single value	not null
hotel room, flights, and car rental in one session					
24. User uses a banking	amount	string	1	single value	Not null
app to transfer funds	from country	string	1	single value	Not null, within choice
with currency conversion	to country	string	1	single value	Not null, within choice
	patient name	string	1	single value	Not null
	visit id	string	1	single value	Not null, 4 digit
25. User completes a full patient intake process online before a hospital	sick state	string	1	single value	Not null
visit	city	string	1	single value	Not null, within choices
	phone number	string	1	single value	Not null, 8 digit
	patient email	string	1	single value	Not null, email formate valid
	date/ time	DateTime	1	single value	Not null
	patient visit date/ time	DateTime	1	single value	Not null

	Output			Process				
Conversion	Name	Туре	Count	Single / multiple tasks	Name			
Easy Level	Easy Level (1–8): Basic, straightforward use cases							
No					checkCardValidity			
No	amount	double	1	multiple	CheckBalance			
No								
No	withdraws money amount	double	1		checkCardValidity			
No	Remaining Balance amount	double	1		CheckBalance			
No				multiple	withdraws money			
yes (conver from int to double)					remaining balance amount			
NO					password check			
No	log to email account				login			
No	log to email account				check email acount			
NO		ValidFlag	1	Multiple	log to email account			
No					select photo			
NO					Add photo to profile			
NO	Add image to profile	int	Multi value	single				
No					select file name			
No					play music			
No	player music	int	Multi value	Multiple	stop music			
No								
No					set reminder			
No								
No	successfully reminder	bool	1	single				
no	Successiully retrillible	DOOI		Jamyic	check number of movie ticket			
no yes (conver from					books a movie tiket			
string to int or double)					calculate total price			

no	Total Price	double	1	Multiple	confirm books
					payment
no	recipt	string	1	single	search recipe
Mediu	m Level (9-17): Multi-step ir	nteraction	าร		
No					
110					
No					select images
No					
No	_				Prepare image
No	<u> </u>				
Nie	vide	int.	Multi value	man altima a	alida Chaw Vida
No	video	int	Multi value	тишре	slidesShow Video
No No	withdraws money amount	double	1		search order add order to list
No	withdraws money amount	double	<u> </u>		confirm order
No	_				OrderList
No	Remaining Balance amount	double	1		withdraws payment
		0.00.00	-		The state of the s
	order detail	string	>1	Multiple	
N					
No	<u> </u>				check doctor name exist
No No					create appoinment code
INU	appointment detail				confirm appoinment
No					appoinment cost
No		string	1	Multible	appoinment detail
INU		Janniy		Mainne	appoinment detail

No	create event	string	1		create event
No	send event email to invites	bool	1		show event detail
No					send email to invites friends
No					
No					
No				multiple	
NO					apply loan
NO					customer information
NO					employer address details
NO					Loan detail
NO					
NO	loan detail	string	1	multible	
No					check course code exist
No	_				register on course
No	_				total course price
No					confirm registration
No	successfully register	bool	1	multible	
No					Select T-shirt
No					Add T-shirt to cart
No					CheckOut
No					confirmation order

No					send notification
No					
No	cart order detail	string	1	Multiple	
No	Downloaded package	string	>1		check package available
	installation progress	int	>1		download package
				Multiple	install software
No	Bug report submission status	string	1		submit_bug_report
no	Bug ID	string	1		generate_bug_id
No	Notification sent	string	1	NAC-JEST-1-	notify_team
No				Multible	
vel (18–25): I	nvolve data processing, conditi	onal logi	c, or multi _l	ple systems	
No					audamait maayyaa
No					submit_resume
	list of ishs	atring		Multiple	resume analysis
\ <u>'</u>	list of jobs	string	>1	Multiple	job recomandation readform
yes					tax calculation
	update form	string	1	Multiple	writeform
	upuate form	Sumg	-	Intuitiple	whiteform
No	current temp	double	1		thermostat Communication
	·				
	current state	string	1		thermostat Handling
	next change	double	1	Multiple	Status Feedback to User
	niext change	uouble	ı	Multiple	Status Feedback to Osei
yes					Preprocessing data
700					1 Toprocessing data
	Al model	string	1	Multiple	training_Al
No					
No	customer type	string	1		TrackInformation
No					personalized workout
No	personalized workout suggestions	string	1	Multiple	suggestions
No					availabe rooms
					reserves room

				available flight
				reserves flight
				available car
				reserves car
				confirm reserves
	reseves form	string	1 Multiple	display reserves detail
yes				difference amount
No				conversion amount
No	conversion amount	double	1 Multiple	
No				create patient visit id
No	patient visit information	file	1	checkavailablepatients visit
No				patient visit information
No	send notification in email	string	1	notification send
No				
No				
No				
No			Multiple	

Task (function)		
Input	Output Name	Outputtype
Card Number and password	ValidFlag	bool
Card Number	amount	double
Card Number and password	ValidFlag	bool
Card Number	amount	double
balance amount and withdraws money amount	withdraws money amount	double
balance amount and withdraws money amount	remaining money amount	double
password	ValidFlag	bool
password + email	email account	string
Authentication code	ValidFlag	bool
email adress+ password+ Authentication code	ValidFlag	bool
select option	ValidFlag	bool
image	profile with photo	int
select option	musics list	string
file music name + play option	pay music	int
file music name + stop option	validFlag	bool
	successfully	
date and time + place name	reminder	bool
movie ticket code + number of books movie ticket	validFlag	bool
number of books movie ticket	validFlag	bool
number of books movie ticket + price	total price	double

confirm option	ValidFlag	bool
withdraws money	money amount	double
recipe name	detail recipe	string
		ala a s
select option	one character	char
image, width, hight	image	int
images + DurationEachImage	video	int
order name	order detail	string
order name+ number of order	order list	string
confirm option	validFlag	bool
order name+ price + number of order	detail order	string
price + number of order	money amount	double
	detail doctor	
doctor name	information	string
medical condition + doctor name + date	appoinment code	string
appoinment code	ValidFlag	bool
	appoinment total	
appoinment code + price	cost	double
appoinment code + appoinment total cose	appoinment detail informatio	string

event title + event date + event location + event		
description	event code	string
event code	event detail	string
event code +friends email	SendFlag	bool
loan type	ValidFlag	bool
customer full name + Nationality + National ID + Date		
of Birth + Gender + Father's name + Age + residency		
types + No. of dependents + educational qualification	detail customer	
+ Residence phone + office phone + email ID	information	string
	employer	
employer name employer ID	information	string
National ID + loan type	detail loan data	string
course code	CheckFlag	bool
student name + student ID	conformflag	bool
months + price	total course price	double
	successfull	
total course price + course code	registration	bool
size + color + design+ quantity	detail T-shirt	string
detail T-shirt	Add flag	bool
user-Name + user Email + Bank card number	cart detail	string
user-Name + User Email +cart detail	ConfirmFlag	bool

UserEmail + cart detail	SendFlag	bool
OSCIETIALI F CART GCTAII	Octivi lag	
package command	validFlage	bool
package command	package	string
package	software	string
	submistion	
bug type+ bug_description + bug title	successfully	bool
submession succesfully flag	bug id	string
bug id	notefication send	string
resume file	submission successfully	bool
resume file	key words	string
key_words	job list	string
form	price	double
price* tax value	total price	double
total price + form	update form	string
current temp + status	Current state from thermostat	double
current temp + status	temp change, update status	double
Current state from thermostat	Display of current temp, next change, status	double , string
data	cleaning data	string
cleaning data	Al model	string
fitness type, country, age, job type	customer type	string
customer type	fitnesslist	string
hotel name , to city	room id	string
room id , to city	reverse flag	bool

to city	flight id	string
flight id	reverse flag	bool
to city + hotel name + car type	car id	string
car id	reverse flag	bool
room id , flight id , car id	confirm flag	bool
confirm flag	reserves form	string
from country, to country	difference amount	double
amount , difference amount	final amount	double
patient name + visit id + sick state + city + phone		
number + patient visit date/ time	patient visit id	string
·		
date/time	patient visit list	string
	patient visit	
patient visit id	information	string
patient visit information + email	send notification in email	sting
Patient visit information i email	Cinali	July