Use Case	name	Туре	Count
1. checks account balance	Card Number	String	1
1. Checks account balance	Password	string	1
2. withdraws money	Card Number	string	1
2. Withdraws money	Password	string	1
	Password	string	1
3. User logs into email account	email address	string	1
3. Osci logo into cinali account	Authentication code	string	1
	option	char	1
4. User uploads a photo to a social media profile	image	int	11
4. Osci upiouds a prioto to a social media prome	select option	char	1
	file music name	string	1
5. User plays a music file using a music player	stop option	char	1
	player option	char	1
6. User sets a reminder on a smartphone	date and time	DateTime	1
	movie ticket code	string	1
7. User books a movie ticket online	umber of books movie tick	int	1
7. Oddi books a movie ticket ciline	price	string	1
	confirm option	char	1
8. User searches for a recipe on a cooking app	recipe name	string	1
	images	int	>1
	DurationEachImage	double	1
9. User uploads multiple images to generate a slideshow video	width	double	1
9. Oser uploads multiple images to generate a sildeshow video	hight	double	1
	option (for select image b	char	1
	option (for next button)	char	1
	order name	string	1
	number of order	int	1
10. User places an online food delivery order	confirm option	char	1
	price	double	1
	option (for next button)	char	1
	appointment date	DateTime	1

	patient's name	string	1
11. User schedules an appointment with a doctor through a health portal	patient's phone number	string	<u></u>
11. Osci schedules an appointment with a doctor through a health portai	doctor name		1
	medical condition	string	
	event title	string	<u> </u>
12. User creates an event and invites friends on a calendar app	event date	string DateTime	1
	loan type customer full name	string string	<u>1</u> 1
13. User applies for a loan via online banking			1
	Nationality National ID	string	
	National ID	string	1
	course code	string	<u> </u>
14. User registers and enrolls in a university course	student ID	string	1
	student ID	string	
	course price	string	1
	size	double	1
15. User customizes and purchases a T-shirt from an online store	color	string	1
	design	string	1
	quantity	int	1
	User Name	string	1
16. User installs software using a package manager	package command	string	1
	bug title	string	1
17. User reports a bug on a project management platform	Priority	string	1
	bug type	string	1
18. User uploads a resume and receives job recommendations	resume file	string	1
	form		
19. User submits tax forms online and gets real-time calculations	tax value	string	1
20. User uses a smart thermostat to schedule home temperature	emperature senseor reade	double	1
21 Hear trains a custom Al model on unloaded data	data	etrina	1

∠1. Oser trains a custom Ai model on uploaded data	นลเล	sung	1
	fitness type	string	1
22. User tracks fitness data and gets personalized workout suggestions	country	string	1
22. Oser tracks littless data and gets personalized workout suggestions	Age	int	1
	job type	string	1
	hotel name	string	1
23. User reserves a hotel room, flights, and car rental in one session	to city	string	1
	car type	string	1
24. User uses a banking app to transfer funds with currency conversion	amount	string	1
24. Oser uses a banking app to transfer funds with currency conversion	from country	string	1
	patient name	string	1
25. User completes a full patient intake process online before a hospital visit	visit id	string	1
	sick state	string	1
	city	string	1

	Input	
Operation Method	Validation	Conversion
		Easy Level (1–8): Basic, s
single value	16 char, not null, numbers only	No
single value	match as password exist	No
single value	16 char, not null, numbers only	No
single value	match as password exist	No
single value	match as password exist	NO
single value	already sign up	No
single value	code in same email address	No
single value	within choices	NO
Multible values	within specific frame	No
single value	within choices	NO
single value	.mp3 extention	No
single value	wthin choices	No
single value	wthin choices	No
single value	date and time correct formate , not null	No
single value	code exist	no
single value	not null, int format	no
single value	not null	res (conver from string to int or double
single value	within choices	no
single value	not null	no
		Medium Level (9–17):
Multiple values	within specific frame	No
single value	not null, just number	No
single value	not null, just number	No
single value	not null, just number	No
single value	within choices	No
single value	within choices	No
single value	not null	No
single value	just number	No
single value	within choices	No
single value	not null	No
single value	within choice	No
single value	not null, date formate	No

single value	not null	No
single value	not null, 8 digit	No
single value	not null	No
single value	not null	No
single value	not null	No
single value	not null, date formate accepted	No
single value	Not null	NO
single value	Not null	NO
single value	Not null, only number	NO
single value	Not null, only number	NO
single value	not null	No
single value	not null	No
single value	not null, 8 digit	No
single value	not null	No
multible values	not null	No
multible values	not null	No
multible values	not null	No
multible values	not null, >0	No
single value	not null	No
multi values	Not null, valid command syntax	No
single value	not null	No
single value	not null, within option	no
single value	not null	No
	Advanced Lev	vel (18–25): Involve data proce:
single value	not null, pdf exccept extention	No
Multiple values	Not null	yes
single value	not null, validFormate	No
Multinle values	not null	\/DG

iviulupie values	not nuii	yes
single value	not null, wihin selection	No
single value	not null, within selection	No
single value	not null, just int value	No
single value	not null	No
single value	not null within choice	
single value	not null	No
single value	not null	
single value	Not null	yes
single value	Not null, within choice	No
single value	Not null	No
single value	Not null, 4 digit	No
single value	Not null	No
single value	Not null, within choices	No

Out	put		Process	
Name	Type	Count	Single / multiple tasks	Name
traightforward use ca	ses			
	1. 1.1.	1	1/:1.	checkCardValidity
amount	double	1	multiple	CheckBalance
withdraws money amount	double	1	multiple	checkCardValidity
Remaining Balance amount	double	1	multiple	CheckBalance
				password check
log to email account	  ValidFlag	1	Multiple	login
log to email account	valiui iag	'	ividitiple	check email acount
				log to email account
Add image to profile	int	Multi value	single	select photo
Add image to profile	IIIC	Width Value	Sirigic	Add photo to profile
				select file name
player music	int	Multi value	Multiple	play music
				stop music
successfully reminder	bool	1	single	set reminder
				check number of movie ticket
Total Price	double	1	Multiple	books a movie tiket
Total Trice		'	ividitipic	calculate total price
				confirm books
recipt	string	1	single	search recipe
Multi-step interactions				
				select images
video	int	Multi value	multiple	Prepare image
			slidesShow Video	
withdraws money amount	double	1		search order
withdraws money amount	double			add order to list
			Multiple	confirm order
Remaining Balance amount	double	1		OrderList
				withdraws payment
				check doctor name exist

				create appoinment code
appointment detail	string	1	Multible	confirm appoinment
	J			appoinment cost
				appoinment detail
create event	string	1		create event
send event email to invites	bool	1	multiple	show event detail
Corra Gyoric Girlan to Invited	500.			apply loan
				customer information
loan detail	string	1	multible	employer address details
				Loan detail
				check course code exist
				register on course
successfully register	bool	1	multible	total course price
				confirm registration
				Select T-shirt
				Add T-shirt to cart
cart order detail	string	ng 1	Multiple	CheckOut
				confirmation order
				send notification
Downloaded package	string	1		check package available
installation progress	int	1	Multiple	download package
Bug report submission status	string	1		submit_bug_report
Bug ID	string	1	Multible	generate_bug_id
Notification sent	string	1		notify team
ssing, conditional logic,	or multip	ple systems		<u> </u>
				submit resume
list of jobs	string	1	Multiple	resume analysis
				job recomandation
				readform
update form	string	1	Multiple	tax calculation
				writeform
current temp	double	1		thermostat Communication
current state	string	1	Multiple	thermostat Handling
next change	double	1		Status Feedback to User
Al model	etrina	1	Multiple	Preprocessing data
Д ППППД	CITITI		IV/II IIIII II II	

Ai modei	sung		iviuitipie	training_AI
customer type	string	1	Multiple	TrackInformation
ersonalized workout suggestion	string	1	iviuitipie	personalized workout suggestions
				availabe rooms
reseves form	string	1	Multiple	reserves room
				available flight
conversion amount	double	1	Multiple	difference amount
Conversion amount	double		iviuitipie	conversion amount
				create patient visit id
patient visit information	file	1	Multiple	checkavailablepatients visit
			iviuitipie	patient visit information
send notification in email	string	1		notification send

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
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
date and time + place name	successfully 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
recipe name	detail recipe	string
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
doctor name	detail doctor information	string

		1
medical condition + doctor name + date	appoinment code	string
appoinment code	ValidFlag	bool
appoinment code + price	appoinment total 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
loan type	ValidFlag	bool
ather's name + Age + residency types + No. of dependen	detail customer information	string
employer name employer ID	employer 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
total course price + course code	successfull 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
package command	validFlage	bool
package command	package	string
bug type+ bug_description + bug title	submistion 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
from country, to country	difference amount	double
amount, difference amount	final amount	double
e + visit id + sick state + city + phone number + patient vis	patient visit id	string
date/time	patient visit list	string
patient visit id	patient visit information	string
patient visit information + email	send notification in email	sting