Use Case	Input						Output			Process	Task (function)			
	name	Type	Count	Operation Method	Validation	Conversion	Name	Type	Count	Single / multiple tasks	Name	Input	Output Name	Outputtype
1. checks account balance	Card Number	String	1	single value	16 char, not null, numbers only	No	amount	double	1	multiple	checkCardExist	Card Name	ExistFlag	bool
	Password	string	1	single value	8 char, not null	No					checkCardValidity	Card Number and password	ValidFlag	bool
	option	char	1	single value	within choices	No					CheckBalance	Card Number	amount	double
2. withdraws money	Card Number	string	1	single value	16 char, not null, numbers only	No	amount	double	1	multiple	CheckBalance	Card Number	amount	double
	Password	string	1	single value	8 char, not null	No								
	option	char	1	single value	within choices	No								
	amountOf Money	double	1	single value	not null, > 0	No					withdraws money	amountFromCheckBalance, amountOf Money	amount	double
3. logs into email account	emailAddress	string	1	single value	not null, following email format	No	account page (Message: Access sucessful)	string	1	multiple	checkAccountExist	emailAddress	ExistFlag	bool
	Password	string	1	single value	8 char, not null	No					logs	emailAddress, Password	Message: Access sucessful	string
4. uploads a photo to a social media profile	profile acount	string	1	single value	not null	No	photo upload (Message: photo uploaded sucessfully)	string	1	multiple	checkProfileExist	profile acount	ExistFlag	bool
	Password	string	1	single value	8 char, not null	No					loginToProfile	profile acount, Password	Message: Access sucessful	string
	photo	png	1	single value	not null	Yes (string)					upload photo	photo	uploaded photo	string
5. plays a music file	music file	sound	1	single value	not null	Yes (string)	played music file	string	1	single	plays a music file	music file	played music file	string
6. sets a reminder on a smartphone	Time	DateTime	1	single value	not null, follow time formate	No	alarm (sound)	string	1	multiple	checkTimeNotLessThanDateToday	Time	ValidFlag	bool
											sets a reminder	Time	alarm (sound)	string
7. books a movie ticket online	movie name	string	1	single value	not null, do not contain number	No	ticket with seat number	string	1	multiple	checkMovieExist	movie name	ExistFlag	bool
	ticket number	int	1	single value	not null, do not contain number	No					checkAvaibleSeat	movie name	ExistFlag	bool
											booksTicket	ticket number, movie name	ticket with seat number	string
8. searches for a recipe on a cooking app	recipe name	string	1	single value	not null, do not contain number	No	recipe details	string	1	single	showRecipeDetails	recipe name	recipe details	string
9. uploads multiple images to generate a slideshow video	images	png	1	multiple value (list)	not null	Yes (string)	video	string	1	multiple	CombineImagesTogether	images	combinedImages	string
											generateSlideshowVideo	combinedImages	video	string
10 . places an online food delivery order	restaurantName	string	1	single value	not null, do not contain number	No	Message: food delivery order placesed scussefully	string	1	multiple	CheckRestaurantNameExist	restaurantName	ExistFlag	bool
	TheOrder	string	1	multiple value (list)	not null	No					CheckRestaurantNameOpen	restaurantName	OpenFlag	bool
	MyLocation	string	1	multiple value (list)	not null	No					placeTheOrder	TheOrder	Message: The order is placed	string
	Card Number	string	1	single value	16 char, not null, numbers only	No					placeMyLocation	MyLocation	Message: The location is placed	string
	Password	string	1	single value	8 char, not null	No					CheckBalance	Card Number	amount	double
											withdraws money	amountFromCheckBalance, amountOf Money	Message: payment done	bool
	amountOf Money	double	1	single value	not null, > 0	No					places an online food delivery order	withdrawsMoneyMethodResult	Message: food delivery order placesed scussefully	string
11. schedules an appointment with a doctor through a health portal	Doctor name	string	1	single value	not null, do not contain number	No	Message: schedules an appointment is placed	string	1	multiple	CheckDoctorNameExist	Doctor name	ExistFlag	bool
											checkTimeNotLessThanDateToday	Date	ValidFlag	bool
	Date	DateTime	1	single value	not null, follow time formate	No					schedulesAppointment	Doctor name, Date	Message: schedules an appointment is placed	string
12. creates an event and invites friends on a calendar app	Event name	string	1	single value	not null, do not contain number	No	Message: Event created successfully	string	1		checkTimeNotLessThanDateToday	Event Date	ValidFlag	bool
	Event ID	string	1	single value	not null	No					CreateEvent	Event name, Event ID, Event Date	Message: Event created successfully	string
	FriendsEmailAddress	string	1	multiple value (list)	not null, follow email formate	No				multiple	CheckFriendsEmailAddressExist	FriendsEmailAddress	ExistFlag	bool

Use Case	Input						Output			Process	Task (function)			
	name	Type	Count	Operation Method	Validation	Conversion	Name	Type	Count	Single / multiple tasks	Name	Input	Output Name	Outputtype
App	Event Date	Date Time	1	single value	not null, follow time formate	No	Invitation by email for all frindes	string	1		SendInvitaitonEmails	FriendsEmailAddress, Event name, Event ID, Event Date	Invitation by email for all frindes	string
13. applies for a loan via online banking	Card Number	String	1	single value	16 char, not null, numbers only	No	Message: a loan applies successfully	string	1	multiple	CheckBalance	Card Number	amount	double
	Password	string	1	single value	8 char, not null	No								
	option	char	1	single value	within choices	No					loanApply	Card Number, Password, option, loan amount	Message: a loan applies successfully	string
	loan amount	double	1	single value	not null, just number	No								
14. registers and enrolls in a university course	courseName	string	1	single value	not null, do not contain number	No	Message: course created successfully (course schedule table)	string	1	multiple	create course	courseName, courseID, courseTime, courseSeatsNumber	Message: course created successfully (course schedule table)	string
	courseID	string	1	single value	not null	No					checkSudentIDExist	courseSudentID	ExistFlag	bool
	courseTime	Date Time	1	single value	not null, follow time formate	No					checkSeatsAvailble	courseSudentID, courseSeatsNumber	ValidFlag	bool
	courseSeatsNumber	int	1	single value	not null, just number	No	Message: student enrolled successfully (student sheet)	string	1		enrollStuden	courseSudentID, courseStudentName, courseID	Message: student enrolled successfully (student sheet)	string
	courseStudentName	string	1	multiple value (list)	not null, do not contain number	No								
	courseSudentID	string	1	multiple value (list)	not null	No								
15. customizes and purchases a T-shirt from an online store	T-shirtID	string	1	single value	not null	No	Message: T-shirt customized process done successfully	string	1	multiple	checkT-shirtIDExist	T-shirtID	ExistFlag	bool
	T-shirtDetailscustomiztion	string	1	multiple value (list)	not null	No					customizesT-shirt	T-shirtDetailscustomiztion	Message: T-shirt customized process done successfully	string
	T-shirtNumber	int	1	single value	not null, just number	No	Message: T-shirt purchases successfully	string	1		CheckBalance	Card Number, Password	amount	double
	Card Number	String	1	single value	16 char, not null, numbers only	No					purchasesT-shirt	Card Number, Password, T-shirtNumber, T-shirtID	Message: T-shirt purchases successfully	string
	Password	string	1	single value	8 char, not null	No								
16. installs software using a package manager	package manager	string	1	single value	not null	No	Message: package manager installed sucessfully	string	1	multiple	installingPackageManager	package manager	Message: package manager installed sucessfully	string
	software name	string	1	single value	not null	No	Message: software name installed sucessfully	string	1		installingSoftwareName	software name	Message: software name installed sucessfully	string
17. reports a bug on a project management platform	bugDetails	string	1	multiple value (list)	not null	No	Message: a bug reports created successfully (report)	string	1	single	generatedBugReport	bugDetails	Message: a bug reports created successfully (report)	string
18. uploads a resume and receives job recommendations	resume	string	1	single value	not null	No	Message: Resume uploaded successfully job recommendations sheet	string	1	multiple	uploadsResume	Resume	Message: Resume uploaded successfully	string
											generatedJoprecommendationsSheet	Resume	job recommendations sheet	string
19. submits tax forms online and gets real-time calculations	taxFormsDetails	string	1	multiple value (list)	not null	No	tax real-time calculations	string	1	single	submits tax forms online	taxFormsDetails	tax real-time calculations	string
20. uses a smart thermostat to schedule home temperature	temperatureValue	float	1	single value	not null, just number	No	Message: the required temperature has been successfully reached	string	1	multiple	homeTemperatureCalculation	sensor reading temperature	home temperature	float
	sensor reading temperature	float	1	single value	not null, just number	No					smartThermostat	sensor reading temperature, temperatureValue	Message: the required temperature has been successfully reached	string
21. trains a custom AI model on uploaded data	data	string	1	multiple value (list)	not null	No	Success and failure rate report	string	1	single	trainsCustomAIOnUploadedData	data	Success and failure rate report	string
22. tracks fitness data and gets personalized workout suggestions	fitness data	string	1	multiple value (list)	not null	No	personalized workout suggestions report	string	1	single	generatedPersonalizedWorkoutSuggestions	fitness data	personalized workout suggestions report	string
	hotelRoomDetails	string	1	multiple value (list)	not null	No					bookingHotelRoom	hotelRoomDetails	Message: hotel room reservation done successfully + price	string

Use Case	Input						Output			Process	Task (function)			
	name	Type	Count	Operation Method	Validation	Conversion	Name	Type	Count	Single / multiple tasks	Name	Input	Output Name	Outputtype
23. reserves a hotel room, flights, and car rental in one session	FlightsDetails	string	1	multiple value (list)	not null	No	Message: reservation done successfully	string	1	multiple	bookingFlights	FlightsDetails	Message: flight reservation done successfully + price	string
	CarRentalDetails	string	1	multiple value (list)	not null	No					bookingCarRental	CarRentalDetails	Message: car rental reservation done successfully + price	string
	Card Number	String	1	single value	16 char, not null, numbers only	No					CheckBalance	Card Number	amount	double
	Password	string	1	single value	8 char, not null	No					withdraws money	amountFromCheckBalance, totalPrice	Message: reservation done successfully	string
24. uses a banking app to transfer funds with currency conversion	amountToTransfer	double	1	single value	not null, just number	No	Message: funds transfered successfully	string	1	multiple	checkFromCurrencyExist	fromCurrency	ExistFlag	bool
	fromCurrency	string	1	single value	not null	No					checkToCurrencyExist	toCurrency	ExistFlag	bool
	toCurrency	string	1	single value	not null	No					transferFunds	amountToTransfer, fromCurrency, toCurrency	Message: funds transfered successfully	string
25. completes a full patient intake process online before a hospital visit	patientDetails	string	1	multiple value (list)	not null	No	Message: patient intake process done successfully	string	1	multiple	patientRegistration	patientDetails	Message: patient registred successfully	string
	visitDate	Date Time	1	single value	not null, follow time formate	No					checkingVisitDateNotLessThanDateToday	visitDate	ValidFlag	bool
											intakeProcess	patientDetails, visitDate	Message: patient intake process done successfully	string