

Use Case	System
User checks account balance at ATM	Banking
User withdraws money from ATM	Banking
User logs into email account	Email/Authentication
User uploads a photo to a social media profile	Social Media
User plays a music file using a music player	Media Player
User sets a reminder on a smartphone	Mobile App
User books a movie ticket online	Booking System
User searches for a recipe on a cooking app	search engine
User uploads multiple images to generate a slideshow video	multimedia App
User places an online food delivery order	System: E-commerce / Delivery
User schedules an appointment with a doctor through a health portal	System: Health Management System
User creates an event and invites friends on a calendar app	Scheduling App
User applies for a loan via online banking	Banking / Loan Management
User registers and enrolls in a university course	University Portal
. User customizes and purchases a T-shirt from an online store	E-commerce with customization
User installs software using a package manager	OS/Software Installation
User reports a bug on a project management platform	Issue/Bug Tracker
User uploads a resume and receives job recommendations	Recruitment System
User submits tax forms online and gets real-time calculations	E-Government / Tax Filing
User uses a smart thermostat to schedule home temperature	IoT / Smart Home
. User trains a custom AI model on uploaded data	ML Platform
User tracks fitness data and gets personalized workout suggestions	Health/Fitness App
User reserves a hotel room, flights, and car rental in one session	Travel Booking System
User uses a banking app to transfer funds with currency conversion	FinTech / Multi-currency
User completes a full patient intake process online before a hospital visit	Hospital Information System

Input Name

ATM Card

ATM Card

Username

Photo

Audio File

Reminder Time

Movie, Time

cooking recipe

find

images

order name , price, card number,username

Username civil ID , Date Time ,doctor name

Names , Time , event name

ATM card , login username

Time , course name , ID

order purchased , price, card number,username, t-shirt selected

Software Name, Package Manager, OS Version

Bug Description, Severity, Steps to Reproduce

pdf file upload , job message

income details ,

, time temperature(celsuis or F)

Training dataset, model type

Steps, Heart rate, Age, Goal

Destination, Dates, Traveler Info, Car Type, Hotel Pref

Sender Account, Receiver IBAN, Amount, Currency

Name, DOB, Medical History, Insurance Details, ID Proof

Input Type	Input Count	Input Operation Method
String	1	Insert
String	1	Insert
String	1	Enter
File	1	Upload
File	1	Play
Date Time	1	Set
String, Date Time	2	Select
string	1	single value
string	1	list
file/string	1	array
,string	4	List / string
String , DateTime , char	3	List / string
Char, String , Date time	3	List , string
Date-time , String	2	Insert , Enter , string
Date-time , string	3	Enter , list-string , select
String, Double, String, String, Array (of Strings)	5	array
String, String, String	3	Select, Enter
String , string , string	3	Enter , select
String , string	2	Upload , string
Not numbers only , File (.pdf), String, Float	1	Upload , enter , select
Float , string	2	Customize ,enter
File, String	2	Upload, Select
Integer, Integer, Int, String	4	Enter, Track, Select
String, DateTime, String, String, String	5	Select, Enter, Choose
String, String, Double, String	4	Enter, Select
String, Date, Text, String, File	5	Enter, Upload, Select

Input Validation	Input Conversion
PIN Validation	N/A
PIN Validation	N/A
Username Validation	N/A
File Format Validation	Compression
Format Validation	N/A
Time Format Validation	N/A
Ticket Availability Check	Payment
recipe availability- Italian etc /not null	no
// not null list of recipes	no
File Format Validation	.img – mp4 yes
Visa card validation /not null list of orders/payment authentication /	yes
username validation / time format validation / doctor name validation /not null	no conversion
name char validation , time format validation , not null ,	no
pin validation , username validation , time format validation	no
Time format validation , ID validation	no
Visa card validation /not null /payment authentication / login status	no
Software availability, OS compatibility	no
Description length, Severity level	no
file format validation , recommendation message length	no conversion
File format check, number format validation, range check	no
Temp range (16–30 C or f .)	yes
model type supported	no
goal validation	yes
Date format check, availability check, traveler ID format, required fields	Time zone normalization
Account format check, sufficient balance, valid currency	Currency conversion rates
Age check, required fields, file type, insurance format	PDF form generation

Output Name

Account Balance

Cash Withdrawn

Login Status

Upload Status

Play Status

Reminder Confirmation, Reminder Time Display, Notification Trigger

Booking Confirmation

recipe founded

recipe list

slideshow video display

Order submitted for delivery

Confirmation & appointment reservation

set event on

loan application submitted

courses enrolled

payment order accepted

Installation Status

Bug Report Status

upload status , job feedback status

Real-time calculation

scheduled house temperature

Training status, model ID

Suggested workouts, fitness summary

Booking Confirmation

Transfer Status, Converted Amount

Intake Submission Status

Output Type	Output Count	Process Type
double	1	Single
double	1	Single
String / Boolean	1	Single
string/Boolean	1	Single
/string Boolean	1	Single
string	3	Single
Boolean	1	Single
string	1	single
list	1	multiple
String / video file	1	single
String / Boolean	1	multiple
Boolean	1	multiple
Boolean , string	1	multiple
Boolean ,	1	multiple
boolean ,	1	multiple
, string Boolean	2	multiple
Boolean, String	2	multiple
Boolean, String	2	multiple
Boolean , string	2	multiple
double	1	multiple
Boolean , string	2	multiple
Boolean, String	2	multiple
List of Strings, String	2	multiple
String, Boolean	1	Multiple
Boolean, Double	2	Multiple
Boolean, String	1	Multiple

Task Name	Task Input
Display Balance	ATM Card
Dispense Cash	ATM Card, Withdrawal Amount
Authenticate User	Username, Password
Upload Photo	Photo
Play Audio	Audio File
Set Reminder	Reminder Time
Confirm Booking	Movie, Time, Payment
define recipe type	recipe type
list of recipes	string search name
convert to slide show	images file
select order	visa card , username
insert for appointment	select doctor , insert ID , time , date
schedule an event	Time , friends name , event name
apply for loan	, time , username , password, ATM Card
display semester courses	ID validation
confirm order	username
Verify OS compatibility, Install software	Software Name, Package Manager, OS
report bug	Version
upload resume , view job recommendations	My submitted reports
Submit Tax Form, Calculate Tax	resume file type
Set Temp Schedule	Tax form, income,
Train AI Model	Temperature, Time
Analyze Fitness Data	Dataset, model type
Reserve All Services	Steps, heart rate, age, goa
Transfer with Conversion	Destination, dates, traveler info,
Submit Intake Form	preferences
	Account info, amount, currency type
	Patient personal and medical details

Task Output	Task Output Type
Account Balance	Double / Decimal
Cash Withdrawn	Double/Decimal
Login Status	Boolean
Upload Status	Boolean
Play Status	Boolean
Reminder Confirmation	Boolean
Booking Confirmation	Boolean
recipe category type	Boolean
recipes available	Boolean
slideshow video file	string
payment acceptance , login status, order selected	Boolean , string , double
your appointment will be on DATETIME	Boolean , string
event is set on :	String , Boolean
your loan application been submitted on :	Boolean , string
applied courses	Boolean , string
track order	string
OS Version Installation successful status, error messages report displayed	String , Boolean String , Boolean
job recommendation status	strings
Tax amount, submission status	Double , string
Confirmation Message	String , Boolean
Model ID, training success	Boolean, String
Personalized workout plan, summary	String, List of strings
Confirmation of each service, total itinerary	
Confirmation + converted total	Boolean, String, Double
Intake saved + appointment prep note	Boolean, String