Project Design Phase-II
Data Flow Diagram & User Stories

Date	03 October 2022
Team ID	PNT2022TMID21352
Project Name	Project - A Novel Method for Handwritten Digit Recognition System
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Example: (Simplified)

```
┌─────────────────┐
│   Input Data    │
└─────────────────┘
         │
         ▼
┌─────────────────┐
│  Preprocessing  │
└─────────────────┘
         │
         ▼
┌─────────────────┐
│  Segmentation   │
└─────────────────┘
         │
         ▼
┌─────────────────┐
│    Feature      │
│   generation    │
└─────────────────┘
         │
         ▼
┌─────────────────┐
│ Classification  │
└─────────────────┘
         │
         ▼
┌─────────────────┐
│   Recognition   │
└─────────────────┘
```
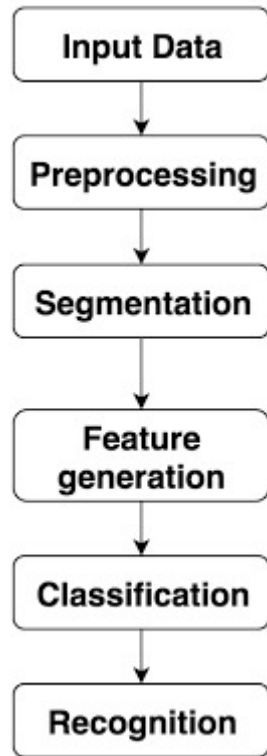
Data flow diagram of the system

User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Handwritten	Recognition	USN-1	As a user, I can use the system for efficient identification of the handwritten digits. The predicted output is accurate and the numerical	I can get good prediction results.	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
digit recognition system user)			data identified can be processed and used with convenience.			
	Image processing	USN-2	As a user, I can use this system to identify the handwritten digits in the images by importing it into the interface.	I can identify handwritten digits from images.	High	Sprint-1
	Scanner	USN-3	As a user, I can use this handwritten digit recognition system to scan the handwritten digits using the camera and get outstanding predicted results.	I can use the scanner.	High	Sprint-1
	Training	USN-4	As a user, I can identify different styles of handwriting from different sources of data. The predicted numerical data is accurate enough and reliable.	I can recognize different styles through the system.	High	Sprint-1
	Scalability	USN-5	As a user, I can use the system for various languages and recognize the digits in various languages with higher accuracy and speed.	I can use the system for different languages.	Low	Sprint-4
	Storage	USN-6	As a user, I can use the system to identify the numerical data and process it to get information and store it for future reference.	I can use the system for storing the identified data	Medium	Sprint-2
	Performance	USN-7	As a user, I can achieve higher performance with this system in handwritten digits recognition.	I can get good performance.	High	Sprint-1
	Speed	USN-8	As a user, I can achieve good speed in identifying the numerical data from various sources.	I can achieve high speed.	Medium	Sprint-3