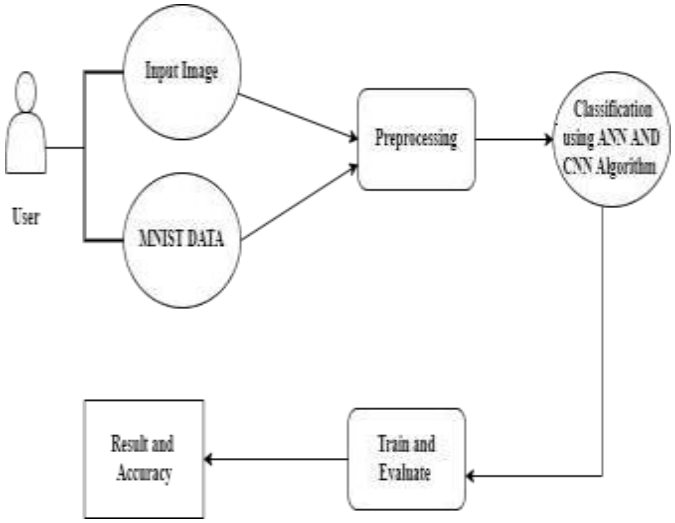
Project Design Phase-II
Data Flow Diagram & User Stories

Date	03 October 2022
Team ID	PNT2022TMID26315
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.

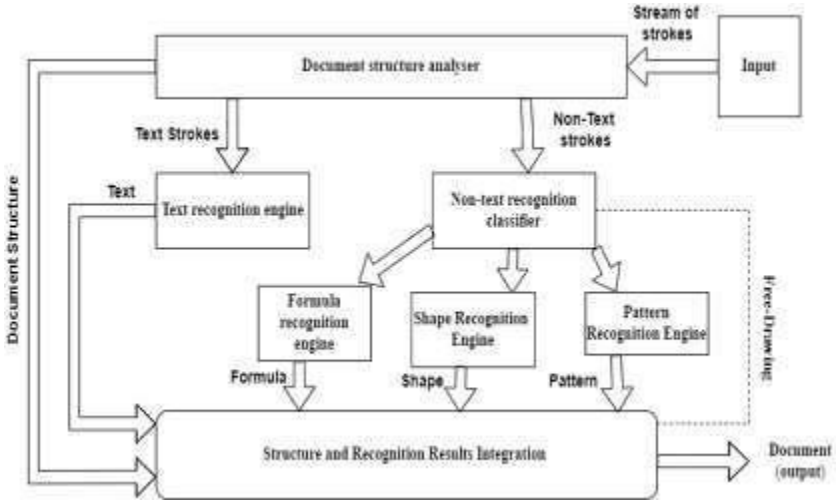
Example: (Simplified) FLOW

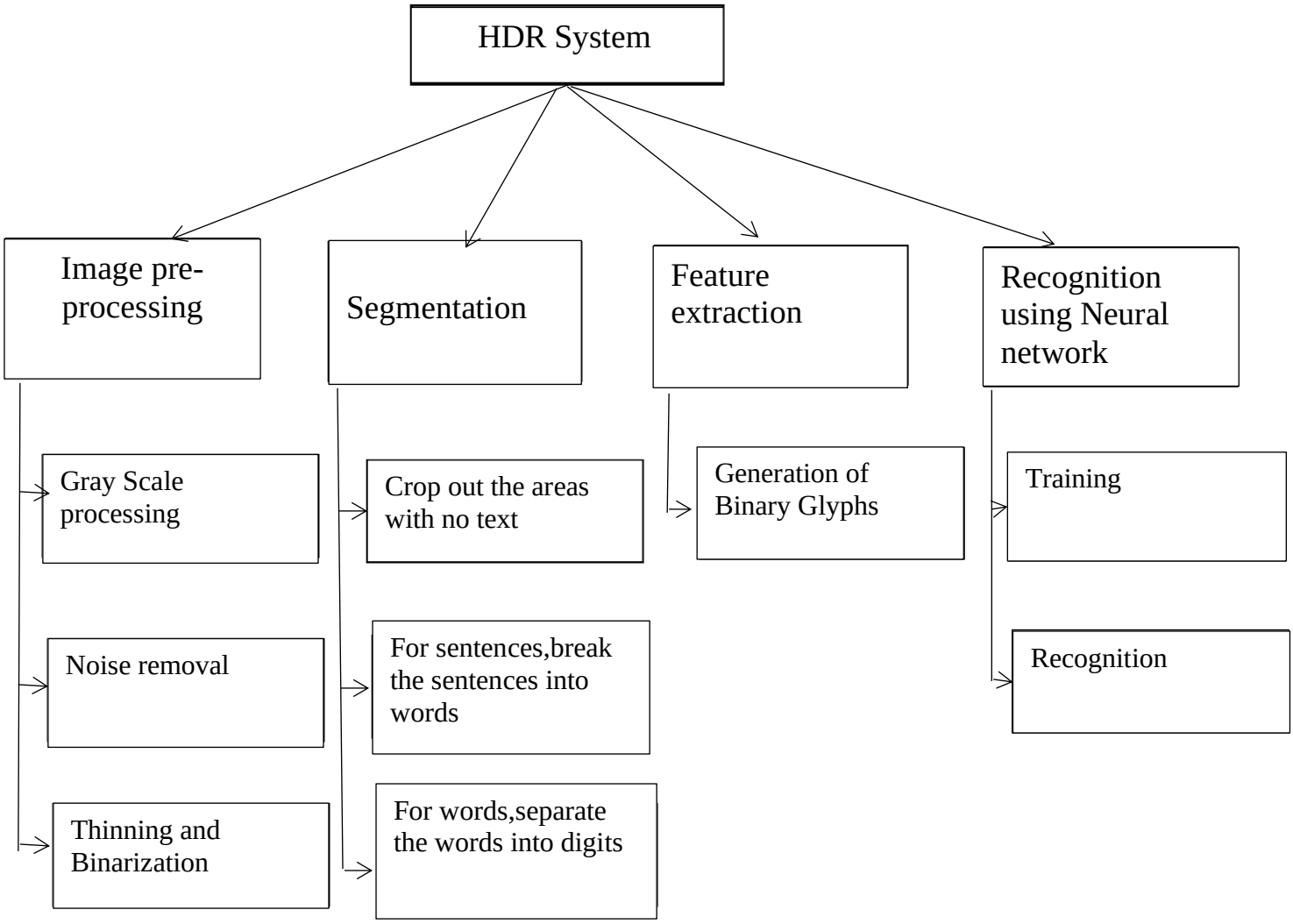


User Stories

Use the below template to list all the user stories for the product.

Example: DFD Level 0 (Industry Standard)




HDR System
Image pre-processing
Segmentation
Feature extraction
Recognition using Neural network
Gray Scale processing
Noise removal
Thinning and Binarization
Crop out the areas with no text
For sentences,break the sentences into words
For words,separate the words into digits
Generation of Binary Glyphs
Training
Recognition

User stories

Use the below template to list all the user stories for the product

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Home	USN-1	As a user,can sign up to create an account and set password.	I can view the awareness to use this application and its limitations.	Low	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application.	I can gain knowledge to use this application by a practical method.	Low	Sprint-1
		USN-3	As a user, we can upload video to interface.	I can read instructions also to use it in a user-friendly method.	Low	Sprint-2
	Recognize	USN-4	As a user, In this prediction page I get to choose the image.	I can choose the image from our local system and predict the output.	High	Sprint-2

	Predict	USN-5	As a user, I can log into the application by entering email & password	I can upload and choose the image from the system storage and also in any virtual storage.	Medium	Sprint-3
		USN-6	I can choose the image from our . local system and predict the output.	I can able to train and test the application until it gets maximum accuracy of the result	High	Sprint-4
		USN-7	As a user, I'm Allowed to upload and choose the image to be uploaded	I can access the MNIST data set to produce the accurate result.	Medium	Sprint-3
Customer (Web user)	Home	USN-8	As a user, I can access the MNIST data set .	I can view the awareness of this application and its limitations.	Low	Sprint-1
	Recognize	USN-9	As a user, I'm allowed to view video .	I can use the application portable anywhere.	High	Sprint-1
		USN-10	As a user can install in Free of cost.	I can use it without any payment to be paid for it to access.	Medium	Sprint-2

		USN-11	As a user, can use the application virtually anywhere.	I can use it without the installation of the application or any software.	Medium	Sprint-4
	Predict	USN-12	As it is an open source, can use it cost freely.	I can upload and choose the image from the system storage and also in any virtual storage.	Medium	Sprint-3