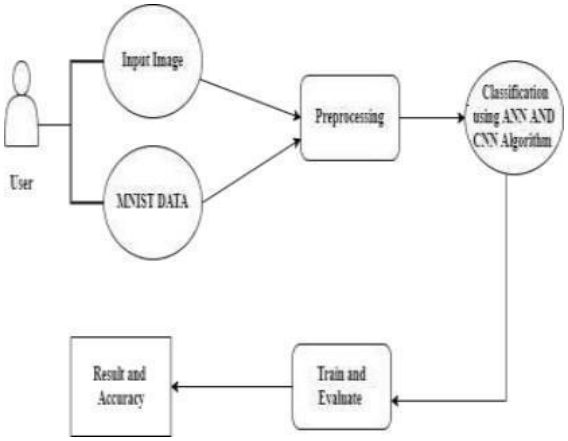
Project Design Phase-II
Data Flow Diagram & User Stories

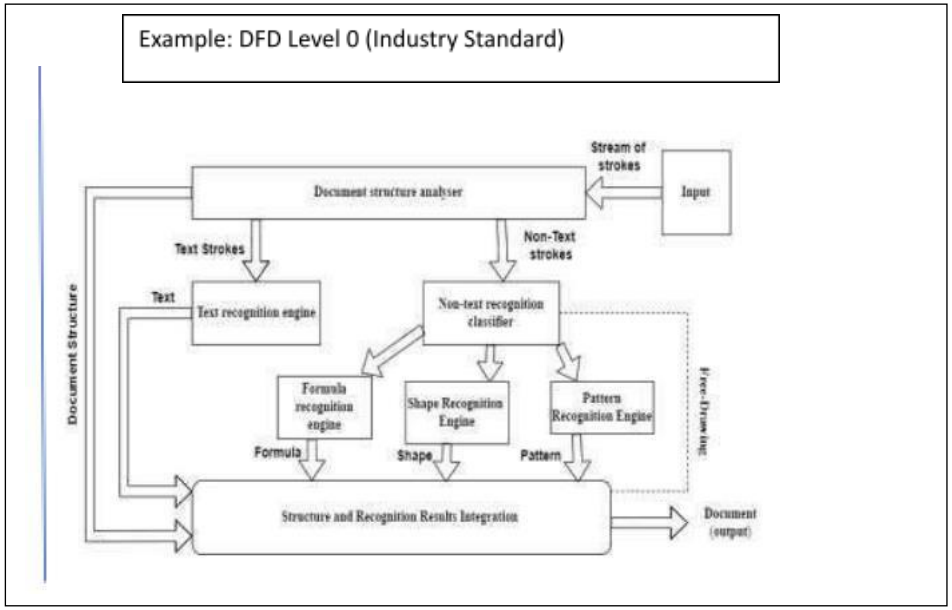
Date	03 October 2022
Team ID	PNT2022TMID22043
Project Name	A Novel Method for Handwritten Digit Recognition System
Maximum Marks	4 Marks

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:





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
Admin	Data collection	USN-1	As a user, I can collect the dataset from various resources with different handwritings.	Collect the dataset	High	Sprint-1
	Data Processing	USN-2	As a user, I can load the dataset, handling the missing data, scaling and split data into train and test.	As a result I get the desired dataset to get trained.	High	Sprint-1
	Model Building	USN-3	As a user, I will get an application with ML model which provides high accuracy of recognized handwritten digit.	Successfully trained the model.	Low	Sprint-1
	Integrate the web app with the IBM model	USN-4	Use flask for the integration purpose.	Created the web app successfully.	Medium	Sprint-4
	Deploy the model	USN-5	Deployment of ML model using IBM Watson Studio, object storage.	Deployed successfully	High	Sprint-4
Customer (Mobile user)	Home Page	USN-6	As a user, I can view the application's home pagewhere I can read the instructions to use this application	I can read instructions also and the home page is user-friendly.	Low	Sprint-2
	Upload Image	USN-7	As a user, I can able to input the images of digital documents to the application	As a user, I can able to input the images of digitaldocuments to the application	Medium	Sprint-3
	Result	USN-8	As a user I can able to get the recognised digit as output from the images of digital documents or images	I can access the recognized digits from digital document or images	High	Sprint-3
		USN-9	As a user, I will train and test the input to get themaximum accuracy of output.	I can able to train and test the application until it gets maximum accuracy of the result.	Medium	Sprint-3