Project Design Phase-II
Technology Stack (Architecture & Stack)

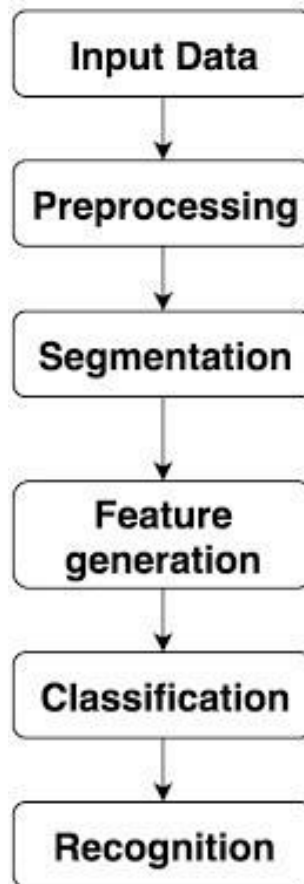|	
Date	03 October 2022
Team ID	PNT2022TMID15389
Project Name	Project – A Novel Method for Handwritten Digit Recognition System
Maximum Marks	4 Marks

Input Data

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Preprocessing

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Segmentation

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Feature generation

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Classification

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Recognition

Table-1 : Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	User interacts with application through Web UI	HTML, CSS, JavaScript
2.	Application Logic-1	Forward propagation: Input data is fed in the forward direction through the network. Each hidden layer accepts the input data, We will use the sigmoid functionas our "activation function".	Python
3.	Application Logic-2	Backward propagation: It is the practice of fine-tuning the weights of a neural net based on the error rate obtained in the previous iteration.	Python
4.	Database	MNIST Dataset	Dataset