Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	29 October 2022
Team ID	PNT2022TMID06779
Project Name	A NOVEL METHOD FOR HANDWRITTEN DIGIT RECOGNITION SYSTEM
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Input	GUI allows the user to input image by browsing the device storage
FR-2	Model	The MNIST dataset should be trained using CNN to create a trained model
FR-3	Prediction	The trained model has to be tested by using the test data provided by MNIST and the accuracy of the model should be above 90%
FR-4	Evaluation	Ensure that the output produced by the model is correct

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Can predict digits with accuracy. The model can be used in bank check processing, data entry etc
NFR-2	**Security**	It ensures security as the uploaded image is not stored in any database
NFR-3	**Reliability**	Can process confidential information without data leakage as the data is never stored in any database.
NFR-4	**Performance**	Improvement in fast prediction. We use CNN algorithm for accurate prediction
NFR-5	**Availability**	Available for web and mobile browsers
NFR-6	**Scalability**	Helps many individuals with low time consumption and high accuracy