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

Date	05 November 2022
Team ID	PNT2022TMID25366
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
FR-3	Prediction	The trained model should 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 good accuracy. The model can be used in bank check processing, vehicle number detection, 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	We use CNN algorithm for accurate prediction to get faster and accurate prediction.
NFR-5	Availability	Available for web and mobile browsers
NFR-6	Scalability	Helps many individuals with low time consumption and high accuracy