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

Date	15 October 2022
Team ID	PNT2022TMID21613
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