

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

Date	15 October 2022
Team ID	PNT2022TMID30996
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	Handwritten digit
FR-2	Model	Model building, Adding CNN layers, Training the model on IBM.
FR-3	Analysis	With the help of pre-trained model, Analysing the current hand written digit with the help of DL and CNN algorithm with pre-trained model.
FR-4	Prediction	With the power of pre-trained data and model, The output becomes more accurate.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	It is user friendly and ease to use which doesn't need any technical knowledge.
NFR-2	<b>Security</b>	This software doesn't collect and store user personal details which ensures that there is no possibilities of data leakage and other security concerns.
NFR-3	<b>Reliability</b>	It can work on any browser without considering the operating system configuration.
NFR-4	<b>Performance</b>	It operates and produces high and quality output within in less time.
NFR-5	<b>Availability</b>	It can work 24/7 and it doesn't require any much maintenance.
NFR-6	<b>Scalability</b>	Hand-written digit recognition can serve thousands and thousands of users to help them understand the digits better