

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

Date	03 October 2022
Team ID	PNT2022TMID53601
Project Name	Project - 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 Experience	A responsive user interface and user experience is needed to attract more users and also to have good user feedback.
FR-2	Deployment in cloud platforms	The system has the potential to deploy the trained CNN model in the cloud.
FR-3	Image Output Prediction	The trained model should predict the number in a more accurate and precise manner. Incorrect predictions can cause a degradation in the reliability in the minds of users.
FR-4	Pertinence in the application domain	The CNN model which is used must be relevant to the application domain and trained for maximum accuracy.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The website should act as an interface between users and the neural network-based model.
NFR-2	Security	Actually, no security is needed to be provided as of now, since it involves only the prediction of numerical images.
NFR-3	Reliability	The system will be able to operate for at least 99% of the year, and also it can give more than 98% accurate results which makes it more reliable.
NFR-4	Performance	The system should be able to predict and display the output in 3-5 seconds.
NFR-5	Availability	The model shall be available for public usage until it is in operational mode.
NFR-6	Scalability	The system can be able to accommodate one million concurrent users without any degradation in performance. For more accommodation, cloud-based hosting can be enabled.