

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

Date	15 th October 2022
Team ID	PNT2022TMID53272
Project Name	Project – A Novel method for Handwritten Digit Recognition
Marks	4 Marks

Functional Requirements:

Following are the major functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Image Scanner	Scan an Image using the mobile camera
FR-2	Upload Image	Upload an image using the upload photo button
FR-3	Convert Image to Number	An option to convert an image into the required digit using the ML algorithms.
FR-4	Image Processor	Input image Get various sub-components
FR-7	An HTML Webpage	A local/cloud website where the algorithm runs in the background and provides the predicted output to the user

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	User-friendly UI
NFR-2	Security	Data integrity and safeness of data in DB
NFR-3	Reliability	The application will be consistent and reliable
NFR-4	Performance	Fast image processing and providing accurately predicted digits Quick to provide the output for the user
NFR-5	Availability	Available at all time for usage
NFR-6	Scalability	Large number of users can be using at the same time with proper functioning.

