

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

Date	15 October 2022
Team ID	PNT2022TMID52947
Project Name	Project - A Novel Method For Handwritten Digit Recognition
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 Registration	Registration through Form Registration through Gmail Registration through Phone number
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Reset Password	Reset password through Gmail Reset password through Mobile number
FR-4	Feedback	The user can submit the feedback through a contact form on the website or through Gmail.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Used to recognise handwritten digits of various fonts and provide accurate output to the user.
NFR-2	<b>Security</b>	The photos scanned by the users are secured and not disclosed to anyone.
NFR-3	<b>Reliability</b>	The images are collected from reliable sources and the model is trained several times to give the best results consistently.
NFR-4	<b>Performance</b>	The model is trained using various Machine Learning algorithms and the best algorithm is chosen. So, the performance is higher.
NFR-5	<b>Availability</b>	Digits from all available fonts and sizes are collected and stored in the database for accurate results.
NFR-6	<b>Scalability</b>	High scalability. The model will help the customers to identify the numbers irrespective of the user's handwriting.