

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

Date	03 October 2022
Team ID	PNT2022TMID01617
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 Registration	Registration through form
FR-2	User Login	Login via registered Username and Password
FR-3	Uploading images	Able to input the handwritten images into the application
FR-4	Recognizing digits	Display the recognized digits from the input images to the user

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	The application needs to respond smoothly so that the user can use the application effectively and need to be an user friendly application.
NFR-2	<b>Security</b>	Ensure the security by authenticating the users using their username and password.
NFR-3	<b>Reliability</b>	The application does not show any error during the recognition of the digits from the uploaded images.
NFR-4	<b>Performance</b>	Needs to respond fast and provide the output even for the complex handwritings.
NFR-5	<b>Availability</b>	Need to available for all users at any time and can able to input the handwritten images to the application easily.
NFR-6	<b>Scalability</b>	It can able to handle N numbers of users at the same time with faster response and recognize the digits effectively.