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

Date	03 October 2022
Team ID	PNT2022TMID18129
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 Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Login	Login via Registered Username Login via Email & Password

FR-4	User Authentication	Authentication through Captcha
		Banking Sector:
		    Authentication through IFSC code & Finger Print.
		Library and postal Sector:
		    Authentication through Identification Card.

FR-5	User Input	Upload the input as Scanned image Upload the input from database. Get the input as real time image.
FR-6	System Configuration	RAM at least 4GB System with graphical User Interface. Camera with better resolution.
FR-7	Business Rules	System shows an error message when the input is not in a required format.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Useful for reducing complexity in fields that work with massive databases.
NFR-2	**Security**	Easy to track user. Access only to authorized person
NFR-3	**Reliability**	Due to extensive training, this model's accuracy has greatly increased.

NFR-4	Performance	Decreases the need for human supervision and increases efficiency.
NFR-5	Availability	Accessible to all users, including banks, post offices, libraries, etc.
NFR-6	Scalability	Model is expected to be 95% accurate, and there is potential to expand the model to identify text.

Use Case Diagram :

The functionality of the system as experienced by users is modelled in the use case view. Use cases are a Coherent functional unit between users and the system expressed as transactions.