

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

Date	03 October 2022
Team ID	PNT2022TMID18363
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 Confirmation via Password
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 & Authentication through finger print Library and postal sector: Authentication through Identification Card.
FR5	User Input	Upload the input as Scanned image Upload the input from Database Get the input as Real time image
FR6	System configuration	RAM At least 4GB System with Graphical User Interface Camera with better resolution
FR7	Business Rules	System provides an error message when the input is not in a required format. Minimum resolution of image should be of 180 DPI. Size of the image should not exist 1MB

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Useful for areas that deals with large databases to reduce complexity . User friendly.
NFR-2	Security	Access only to authorized persons. Easy to track users
NFR-3	Reliability	This model is highly trained, accuracy is highly improved.
NFR-4	Performance	Reduces a human supervision and improves Efficiency.
NFR-5	Availability	Available for every users like Banks, Post Office, Library, etc.
NFR-6	Scalability	Model is predicted to have accuracy of 95% and has opportunity of extending the model to recognize text.