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

Date	3 November 2022
Team ID	PNT2022TMID07259
Project Name	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
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.
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.
		Camera with better resolution.
		System with Graphical User Interface.
FR-7	Business Rules	System provides an error message when the input is
		not in a required format or unable to detect.
		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	Users should be able to readily understand and use the system design. Furthermore, it should be straightforward to use for people of various ability levels.
NFR-2	Security	The system should automatically be able to authenticate all users using their unique username and password.
NFR-3	Reliability	This model is highly trained, accuracy is highly improved.
NFR-4	Performance	Reduces a human supervision and improves Efficiency and accuracy.
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.