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

Date	15 October 2022
Team ID	PNT2022TMID38424
Project Name	Project - A Novel Method for Handwritten Digit
	Recognition System
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Functional Requirement	Sub Requirement
FR-1	Input	 Must be able to take the handwritten inputs in the form of the images. (JPG, PNG)
FR-2	Error	 System shall show the error message to the user when the input given is not in the required format.
FR-3	Detect Target	 System should detect characters present in the image. Must be able to perform classification and identification algorithms and should recognize the handwritten input
FR-4	Output	 System should retrieve characters present in the image and display them to the user. Must be able to display the accurate output in text format.

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	 ✓ Applications for digit recognition include filling out forms, processing bank checks, and sorting mail. ✓ It can also used for blind-people by using sound input.
NFR-2	Security	✓ Banking sector where it can be used to maintain the security pin number safely.
NFR-3	Reliability	 ✓ This software will work reliably for low resolution image and not for graphical images ✓ The standard implementations of neural networks achieve an accuracy of approximately
NFR-4	Performance	✓ Software will perform its intended function for a large period of sufficient time and also it will operate in a secured environment without any failures.
NFR-5	Availability	✓ This system will retrieve the handwritten text regions only if the image contains written text in it.
NFR-6	Scalability	✓ System can work normally under any amount of inputted handwritten data.