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

Date	20 October 2022
Team ID	PNT2022TMID19779
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	The product essentially converts handwritten digits to digital Form.	The user is first asked to draw a number on the canvas, and the model that is built is then utilized to compare the Data and provide an output in digitalized form.
FR-2	Recognizing the handwritten digit and displaying.	Recognizing the handwritten digit and displaying.
FR-3	Import dataset file directly to the program from a command that will download the dataset from its website. Save the dataset file in the same directory as the program	Installing packages and applications.
FR-4	Build a Neural Network with a number of nodes in the input layer equal to the number of pixels in the arrays	Nil
FR-5	Activating the Neural Network	Packages – tensor flow

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	System design should be easily understood and user friendly to users. Furthermore, users of all skill levels Of users should be able to navigate it withoutproblems.
NFR-2	Security	The system should automatically be able to authenticate all users with their unique username and password
NFR-3	Performance	Should reduce the delay in information when hundreds of requests are given.
NFR-4	Availability	Information is restricted to each users limited access
NFR-5	Scalability	the system should be able to handle 10000 users accessing the site at the same time