

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

Date	18 October 2022
Team ID	PNT2022TMID03914
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	In essence, the product transforms handwritten digits into digital data.	In order to compare the data and produce an output in digital form, the user is first asked to draw a number on the canvas. The model that is then created is then used.
FR-2	Identifying and displaying the handwritten digit.	identifying and displaying the handwritten digit.
FR-3	Using a command that downloads the dataset from the program's website, you can import the dataset file directly into the software. In the same directory as the programme, save the dataset file.	Installing packages and applications.

FR-4	Construct a neural network with the same number of nodes in the input layer as the arrays' pixel count.	Nil
FR-5	Making the Neural Network Active	Packages – tensorflow

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 without problems.
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