

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

Date	15 October 2022
Team ID	PNT2022TMID35141
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 converts handwritten digits into digital form	The user write a digit on the canvas. The input is compared with built-in data to produce a digital output
FR-2	Identify the handwritten digit and display result	Identify the written result and accurately produce result
FR-3	Import the dataset into the program using a command that will download the dataset.Save the dataset and program in same directory	Install packages and applications
FR-4	Build a neural node with required number of layers	Nil
FR-5	Activate the neural network	Package required- Tensorflow

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system should be designed in a way such that it is user friendly and users can easily navigate through the software
NFR-2	Security	The system should have proper authentication and authorisation mechanisms. Only users having a valid username and password should be granted access
NFR-3	Performance	There should be no delay in producing results.The performance speed should be high.
NFR-4	Availability	Only users have access to the information available.
NFR-5	Scalability	The system should be scalable enough to handle any number of users at the same time.