## Project Design Phase-II Solution Requirements (Functional & Nonfunctional)

Date	17 October 2022		
Project Name	A Novel Method for Handwritten Digit		
	Recognition		
	System		
Maxium Members	4 Members		

## **Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR No.	<b>Functional Requirement (Epic)</b>	Sub Requirement (Story / Sub-Task)		
FR-1	The product essentially converts	The user is first asked to draw a number on the canvas,		
	handwritten digits to digital	and the model that is built is then utilised to compare the		
	form.	data and provide an output in digitalized form.		
FR-2	Recognizing the handwritten	Recognizing the handwritten digit and displaying.		
	digit and displaying.			
FR-3	Import dataset file directly to the	Installing packages and applications.		
	program from a command that			
	will download the dataset from			
	its website. Save the dataset file			
	in the same directory as the			
	program			
FR-4	Build a Neural Network with a	Nil		
	number of nodes in the input			
	layer equal to the number of			
	pixels in the arrays			
FR-5	Activating the Neural Network	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		
		andpassword		
NFR-3	Performance	Should reduce the delay in information		
		whenhundreds of requests are given.		
NFR-4	Availability	Information is restricted to each users limited access		