Project Design Phase-I
Proposed Solution

Date	16 October 2022
Team ID	PNT2022TMID02197
Project Name	A Novel Method for Handwritten Digit Recognition System
Maximum Marks	2 Marks

Proposed Solution:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	In this modern world digit recognition is very crucial and challenging. This is a worldwide system for recognizing zip codes or postal codes for mail sorting or account number in bank sectors. Handwritten digit recognition can be accomplished using a variety of approaches. The machine has a difficult duty because handwritten digits are not flawless and can be generated with a variety of flavours. The solution to this issue is handwritten digit recognition, which uses an image of a digit and identifies the digit represented in the image.
2.	Idea / Solution description	Handwritten digit recognition is performed using the MNIST dataset which contains 60,000 training images of handwritten digits from zero to nine and 10,000 images for testing.
3.	Novelty / Uniqueness	Without any reduction of feature and used all the data and to be done with high accuracy algorithm.
4.	Social Impact / Customer Satisfaction	There are many benefits associated with the handwriting recognition system. In addition to reading postal addresses and bank check amounts, it is also useful for reading forms. Easy for the administrators to digitalize the data. The system will be fast, reliable and easy to use.
5.	Business Model (Revenue Model)	A good amount of time was spent on understanding the problem by getting to know the challenges faced by people by not able to recognize handwritten digits and the errors caused by that.
6.	Scalability of the Solution	The application is very user friendly and can be accessed anywhere with no complications.