

**Project Design Phase-I**  
**Proposed Solution Template**

Date	26 September 2022
Team ID	PNT2022TMID00805
Project Name	A Novel Method For Handwritten Digit Recognition System
Maximum Marks	

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The handwritten digit recognition is the capability of computer applications to recognize the human handwritten digits. It is a hard task for the machine because handwritten digits are not perfect and can be made with many different shapes and sizes. The handwritten digit recognition system is a way to tackle this problem which uses the image of a digit and recognizes the digit present in the image.
2.	Idea / Solution description	We came up with a solution that recognizes the handwritten digits by means of a deep learning model.
3.	Novelty / Uniqueness	The system recognizes input given by user in a precise and efficient manner
4.	Social Impact / Customer Satisfaction	The aim of a handwriting digit recognition system is to convert handwritten digits into machine readable formats. The main objective of this work is to ensure effective and reliable approaches for recognition of handwritten digits
5.	Business Model (Revenue Model)	Pay per use-each time a person needs the service he can avail it by paying it for the use.
6.	Scalability of the Solution	The formalization of the HWR domain with novelty includes two parts. The first is a series of definitions that represent a theory of novelty for the domain. The second is an ontological specification that characterizes the space of novelty and facilitates measurement of novelty detection difficulty.