# Project Design Phase-I
# Proposed Solution Template

| Date | 19 September 2022 |
|---|---|
| Team ID | PNT2022TMID00205 |
| Project Name | Project - A Novel method for hand written digit recognition system. |
| Maximum Marks | 2 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) | A machine learning system for automatic Handwritten Digit Recognition |
| 2. | Idea / Solution description | The handwritten digits are recognised by machine learning algorithms which use deep convolutional neural networks (CNNs) trained on a large-scale dataset. |
| 3. | Novelty / Uniqueness | The approach to detect handwritten digits from pixels of images is performed using state of the art machine learning and computer vision techniques. The previous approaches have various constraints. |
| 4. | Social Impact / Customer Satisfaction | Handwritten digits can be recognised easily without any strenuous efforts. This reduces time and improves productivity for people. |
| 5. | Business Model (Revenue Model) | It is a software as a service business model where the highly scalable service can be used for detecting handwritten digits efficiently at low cost. |
| 6. | Scalability of the Solution | The solution is deployed as a RESTful machine learning service which is highly containerized. Thus, the solution can scale to higher processing loads. |