**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 24 September 2022 |
| Team ID | PNT2022TMID33879 |
| Project Name | A novel method for hand written digit recognition |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Hard task for the machine to be able to recognize the handwritten digits because handwritten digits are not perfect and can be made with many different writing styles. |
|  | Idea / Solution description | A handwriting digit recognition system is to convert handwritten digits into machine readable **formats**. It is the process to provide the ability to machines to recognize human handwritten digits |
|  | Novelty / Uniqueness | It recognize the digits based on the analysis of shape and the thickness of the numerical image which is very effective and good accuracy. |
|  | Social Impact / Customer Satisfaction | It is used in the **detection of vehicle number, banks for reading cheques, post offices for arranging letter, and many other tasks. It is time consuming and fastest method.** |
|  | Business Model (Revenue Model) | objective of this is to ensure effective and reliable approaches for recognition of handwritten digits in online digits recognition such as banking operations easier and error free |
|  | Scalability of the Solution | Handwritten digit recognition becomes vital scope and it is appealing many researchers because of its using in variety of **machine learning and computer vision applications** |