**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID41079 |
| Project Name | A Novel Method For Handwritten Digit Recognition System |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

The project team shall fill in the following information in the proposed solution template.

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | * Mohan is a cashier, he needs a way to quickly enter the account details which are written by account holders in the challan so that account holders don't have to wait long. |
|  | Idea / Solution description | * Using MNIST dataset and Convolutional Neural Network to perform digits recognition. * All of those digits can be converted into electronic words in a text document format, and this data only needs a fraction of the physical storage space of the physical copies. |
|  | Novelty / Uniqueness | * Unlike OCR, which recognizes all the characters, it can accurately recognize the digits. |
|  | Social Impact / Customer Satisfaction | * This system saves time and workload in sectors which use this technology. |
|  | Business Model (Revenue Model) | * It is very useful in the banking sectors, In the banking sector, numerical detail in cheque can be easily recognized. * Pincode details are easily obtained in the postal system. |
|  | Scalability of the Solution | * This system has no restriction on the number of digits to be recognized. |