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

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID53487 |
| Project Name | Project - A Novel Method For Handwritten Digit Recognition System |
| Maximum Marks | 2 Marks |

**Proposed Solution:**

| S.No. | Parameter | Description |
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| 1. | Problem Statement (Problem to be solved) | Digits are used extensively in everyday life, be it for distinguishing the bank accounts, or to document the marks scored by a set of students in a specific subject. These values usually have to be input into a file for easy computation, but the task gets tedious when a large amount of values are involved, and it may lead to more errors during manual input. |
| 2. | Idea / Solution description | This project aims to make the task of digit input easier, by reducing it to a simple procedure of scanning the paper the digits are written in, while the system handles the extraction and storage of the values. This avoids any chance of manual input errors during the process. |
| 3. | Novelty / Uniqueness | If the image has various columns of digit data that needs to be scanned, it would be properly accounted for. The interface where the image of handwritten text will be uploaded, would also be updated to present various options to the user, relating to computation of the data, the presentation of the values (in an easily readable format), and the storage (the file format desired by the client). |
| 4. | Social Impact / Customer Satisfaction | Removing the burden caused by the manual input of data would make the customer happier. This proposed solution will be useful for the faster processing of postal addresses, bank cheques, forms, handwritten ancient texts etc. The time required for uploading data becomes much shorter, and the less time consumed, the quicker the rest of the process proceeds. |
| 5. | Business Model (Revenue Model) | This solution can be used by companies to process bulk datas such as phone numbers instantly. It simply automates the whole process of manual checking. And it is also a |

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| | | time saving and efficient system. |
| 6. | Scalability of the Solution | The proposed solution will be able to scan very large amounts of values, even ranging up to thousands, at a time. |