PROJECT DESIGN PHASE-1 PROPOSED SOLUTION TEMPLATE

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| **DATE** | 23 September 2022 |
| **TEAM ID** | PNT2022TMID28606 |
| **PROJECT NAME** | A Novel Method for Handwritten Digit Recognition System |
| **MAXIMUM MARKS** | 2 Marks |

Proposed Solution:

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| **S.NO** | **Parameter** | **Description** |
| 1. | Problem Statement (Problem to be solved) | **Statement**-The handwritten digit recognition is the capability of computer applications to recognize the human handwritten digits.  **Description**: It is a hard task for the machine because handwritten digits are not perfect and can be made with many different shapes and  sizes. |
| 2. | Idea / Solution description | 1. It is the capability of a computer to fete the mortal handwritten integers from different sources like images, papers, touch defences. 2. It allows user to translate all those signature and notes into electronic words in a text document format and this data only requires far less physical space than the storage of the   physical copies. |
| 3. | Novelty / Uniqueness | Accurately recognize the digits rather than recognizing all the characters like OCR. |
| 4. | Social Impact / Customer Satisfaction | 1. Artificial Intelligence developed the app called Handwritten digit Recognizer. 2. It converts the written word into digital approximations and utilizes complex algorithms to identify characters before churning out a   digital approximation. |
| 5. | Business Model (Revenue Model) | * This system can be integrated with traffic surveillance cameras to recognize the vehicle’s number plates for effective traffic management. |

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|  |  | * Can be integrated with Postal system to   identify and recognize the pin-code details easily. |
| 6. | Scalability of the Solution | * Ability to recognise digits in more noisy environments. * There is no limit in the number of digits it can be recognized. |