**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 25.9.2022 |
| Team ID | PNT2022TMID35610 |
| Project Name | Project - A Novel Method for Handwritten Digit Recognition System |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Recognize handwritten expressions consisting of digits and mathematical symbols and evaluate the expression. |
|  | Idea / Solution description | Image dataset of digits and symbols are used to train the CNN model and it is used to find the digits or expression in digital form and it is processed |
|  | Novelty / Uniqueness | Rather than only recognizing the (0-9) digits our project can recognize the digits along with mathematical symbols (+,-,\*,/,(,)) and calculate the value of the expression ("2 +3-6 ", “8\*6-4”) |
|  | Social Impact / Customer Satisfaction | The project will be useful for customers like bank staffs, students, etc to recognize digits and also solve expression |
|  | Business Model (Revenue Model) | Revenue can be generated by making it as an web app by which anyone can access it. |
|  | Scalability of the Solution | In the future the model can be used to recognize complex mathematical expression which has some different symbols like root functions, sin ,cos, differential, integration, etc. It will be very helpful to recognize some notes which are tough to understand. |