**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID00199 |
| Project Name | Project - Detecting Parkinson’s Disease using Machine Learning |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Early and Automatic detection of Parkinson’s Disease in hand drawn images. |
|  | Idea / Solution description | Detection is done by using Histogram of Oriented Gradients (HOG) image descriptor along with a Random Forest classifier. |
|  | Novelty / Uniqueness | In this method, the approach to predict Parkinson's disease from hand-drawn wave and spiral images using computer vision and machine learning techniques has been recommended. The previous methods have their constraints. |
|  | Social Impact / Customer Satisfaction | People can detect the disease at a very early stage and improve the quality of living. They can take proper precautions and lead a healthy and safe life. |
|  | Business Model (Revenue Model) | It is cost efficient as it is a Software as a Service Platform. People need not spend much money to detect the disease. |
|  | Scalability of the Solution | Better execution in accuracy, sensitivity, and specificity as well as in system design flexibility. |