**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID34094 |
| Project Name | Deep learning fundus image analysis for early detection of diabetic retinopathy |
| 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) | Diabetic retinopathy is a serious sight-threatening complication of diabetes. Diabetes interferes with the body's ability to use and store sugar (glucose). The disease is characterized by too much sugar in the blood, which can cause damage throughout the body, including the eyes. |
|  | Idea / Solution description | You can reduce your risk of developing diabetic retinopathy, or help stop it getting worse, by keeping your blood sugar levels, blood pressure and cholesterol levels under control. This can often be done by making healthy lifestyle choices, although some people will also need to take medication. |
|  | Novelty / Uniqueness | Early detection of diabetic retinopathy and timely treatment are the novelty of our project. |
|  | Social Impact / Customer Satisfaction | Customers get to know about eating a healthy balanced diet, losing weight if the patients are overweight, exercising regularly and stop the smoking habits. |
|  | Business Model (Revenue Model) | This model should be designed to detect early to late stages of diabetic retinopathy. |
|  | Scalability of the Solution | Can scale for adults aged 20-74 years. |