**PROJECT DESIGN PHASE-1**

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| Date | 29 december 2022 |
| Team ID | PNT2022TMID34081 |
| Project Name | Deep Learning Fundus Image Analysis for Early Detection of Diabetic Retinopathy |
| Maximum Marks | 2 Marks |

**Proposed Solution** **Template**

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| **s.no** | **parameter** | **Description** |
| 1. | Problem Statement(problem to be solved) | It too much sugar in your blood can lead to the blockage of the tiny blood vessels that nourish the retina, cutting off its blood supply. |
| 2. | Idea/solution description | Diabetic retinopathy are solved with panretinal (scatter) laser photocoagulation or PRP |
| 3. | Novelty/Uriqueness | Diabetes is difficult to determine because of undersupply with insulin, high mortality, unregistered rural cases, and low adherence to therapy demands . It is anticipated that by 2030 over 80% of people with diabetes will live in underdeveloped countries |
| 4. | Social Impact/Customer satisfaction | The evidence suggests that diabetic retinopathy and associated vision loss have several debilitating effects, including disruption of family functioning, relationships and roles; increased social isolation and dependence; and deterioration of work prospects resulting in increased financial strain. |
| 5. | Business model(Revenue Model) | Optomed is one of the leading providers of handheld fundus cameras¹ and a provider of screening software for eye diseases aiming to transform the diagnostics of diabetic retinopathy. |
| 6. | Scalability of the solution | The aim of this research is to develop a scalable system to screen for a complication of diabetes that can lead to blindness: diabetic retinopathy. If diabetic retinopathy can be identified early, vision can be saved and intervention can lead to better management of diabetes |

Project team shall fill the following information in proposed solution template