**Project Design Phase**

**Proposed Solution Template**

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| Date | 04 March 2025 |
| Team ID |  |
| Project Name | Eye Disease Detection Using Deep Learning |
| Maximum Marks | 2 Marks |

| **S.No.** | **Parameter** | **Description** |
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| 1 | Problem Statement (Problem to be solved) | Early detection of eye diseases like diabetic retinopathy, glaucoma, and cataracts is crucial to prevent vision loss. Many healthcare professionals lack quick and accurate diagnostic tools, leading to delayed treatment. |
| 2 | Idea / Solution Description | A machine learning-based web application that analyzes retinal images to detect potential eye diseases. The system provides risk assessment reports and recommendations, helping professionals with early diagnosis. |
| 3 | Novelty / Uniqueness | The solution integrates AI-based prediction with a user-friendly web interface, allowing seamless report generation and patient tracking. It also includes referral links to specialists and research institutions for further consultation. |
| 4 | Social Impact / Customer Satisfaction | It enhances diagnostic accuracy, reduces patient wait times, and provides better accessibility for remote healthcare centers. Medical professionals benefit from faster and more reliable insights. |
| 5 | Business Model (Revenue Model) | Subscription-based model for hospitals and clinics, pay-per-use API access for telemedicine platforms, and partnerships with research institutions for dataset sharing and model improvements. |
| 6 | Scalability of the Solution | The system can expand to support more eye diseases, integrate with hospital management systems (HMS), and be deployed in multiple languages for global accessibility. |