Project Design Phase
Proposed Solution Template

Date	15 February 2025
Team ID	PNT2025TMID04206
Project Name	Vision AI
Maximum Marks	2 Marks

Proposed Solution Template:

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

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Early detection of eye diseases like diabetic retinopathy, glaucoma, and cataracts is critical, but traditional diagnostic methods are slow, prone to human error, and inaccessible to many people due to a lack of specialists and resources.
2.	Idea / Solution description	The Eye Disease Detection System is an AI-powered tool that automates the analysis of retinal images to quickly and accurately detect and classify eye diseases, improving diagnosis speed and accessibility for healthcare providers and patients.
3.	Novelty / Uniqueness	The system combines advanced deep learning models, such as EfficientNetB3 and U-Net, to detect early-stage eye diseases with high precision. It leverages cloud-based integration for easy access and scalability, making it a unique, scalable solution for global healthcare needs.
4.	Social Impact / Customer Satisfaction	The system improves access to timely diagnosis, particularly in underserved areas, reduces preventable vision loss, and provides patients with quicker, more accurate diagnoses. It empowers both healthcare professionals and patients with actionable insights for better health outcomes.
5.	Business Model (Revenue Model)	The revenue model includes **subscription fees** for healthcare providers accessing the diagnostic tool, **one-time licensing fees** for large-scale systems, and a **freemium model** for patients to access basic diagnostic results, with premium features offered for detailed reports.
6.	Scalability of the Solution	The cloud-based platform can scale to accommodate increasing volumes of diagnostic images and users. Its flexible integration with existing healthcare systems, coupled with low-cost AI models, enables it to expand across hospitals, clinics, and telemedicine services globally.