

**Project Design Phase-I**  
**Proposed Solution Template**

Date	19 September 2022
Team ID	PNT2022TMID04135
Project Name	Deep Learning Fundus Image Analysis for Early Detection of Diabetic Retinopathy
Maximum Marks	2 Marks

**Proposed Solution Template:**

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Early detection and treatment are necessary for diabetic retinopathy in order to delay or avoid vision deterioration and vision loss. Due to high blood sugar blood vessels in the eye.
2.	Idea / Solution description	Using the fundus images of eye, here we are detecting the defects caused to the eye using the deep learning methods.
3.	Novelty / Uniqueness	This application also includes features to find diabetic retinopathy at an early stage. Database is modified such as it is secure than before.
4.	Social Impact / Customer Satisfaction	Before the damage was been verified manually, the results were delayed in time. After using the deep learning method, the results are produced sooner than before.
5.	Business Model (Revenue Model)	This application is used for detecting diabetic retinopathy at an early stage. So implementing it, hospital's efficiency will be increased where their revenue will be boosted.
6.	Scalability of the Solution	As we are using fundus images, the proposed solution is scalable to large the extent.