Project Design Phase
Proposed Solution Template

Date	27 JUNE 2025
Team ID	LTVIP2025TMID32411
Project Name	Revolutionizing Liver Care
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)	This project aims to develop a predictive model for the early detection and prognosis of liver cirrhosis using machine learning techniques.The developed predictive model holds promise for early detection and prognosis of liver cirrhosis, enabling healthcare professionals to initiate timely interventions and personalized treatment strategies.
2.	Idea / Solution description	**Develop an AI-powered Liver Cirrhosis Prediction System** using machine learning models trained on clinical data to predict the presence and severity of liver cirrhosis.
3.	Novelty / Uniqueness	unlike traditional models, this system **trains and compares multiple ML algorithms** and selects the best one dynamically based on patient data.
4.	Social Impact / Customer Satisfaction	Early prediction reduces the number of **hospital admissions, liver transplants, and ICU stays**, cutting down costs for families and the healthcare system.
5.	Scalability of the Solution	Integrates into telehealth services to help **doctors remotely assess liver health** during online consultations.