Project Design Phase
Proposed Solution Template

Date	27 JUNE 2025
Team ID	LTVIP2025TMID42853
Project Name	Revolutionizing Liver Care: Predicting Liver Cirrhosis using Advanced Machine Learning Techniques
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Liver cirrhosis is a life-threatening condition that often goes undiagnosed until it's too late. There is a need for early detection using accessible data inputs.
2.	Idea / Solution description	A web-based machine learning application that predicts the risk of liver cirrhosis using 34 medical input features like blood reports, hepatitis status, and more.
3.	Novelty / Uniqueness	First-of-its-kind localized tool with medical lab-style UI that allows early detection using routine health parameters — no costly scans required.
4.	Social Impact / Customer Satisfaction	Enables early diagnosis and treatment, especially in rural areas where access to specialists is limited. Saves lives through awareness and accessibility.
5.	Business Model (Revenue Model)	Free for government/public hospitals. Subscription model or API access for private clinics and health startups. Can integrate with diagnostic labs.
6.	Scalability of the Solution	Can be scaled to mobile apps, expanded to predict other liver conditions, and linked with hospital health record systems for automatic predictions.