

Project Design Phase
Proposed Solution Template

Date	27-06-2025
Team ID	LTVIP2025TMID34698
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 disease often diagnosed too late due to vague early symptoms and limited diagnostic access. There is a need for a reliable, fast, and non-invasive solution for early detection.
2.	Idea / Solution description	Use machine learning to build a web-based model that predicts cirrhosis early from patient data.
3.	Novelty / Uniqueness	The tool is fast, non-invasive, and uses real clinical data with explainable ML techniques.
4.	Social Impact / Customer Satisfaction	Helps doctors detect cirrhosis early, improving treatment and saving lives, especially in rural areas.
5.	Business Model (Revenue Model)	Hospitals or labs can use it through subscription, license, or pay-per-use models.
6.	Scalability of the Solution	The model can be trained on larger datasets and adapted to different regions or diseases. The web app can be deployed across multiple hospitals and expanded with features like cloud storage or multi-language support.