**Project Design Phase**

**Proposed Solution Template**

|  |  |
| --- | --- |
| Date | 27 JUNE 2025 |
| Team ID | LTVIP2025TMID35105 |
| 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** |
|  | 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. |
|  | 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. |
|  | Novelty / Uniqueness | unlike traditional models, this system **trains and compares multiple ML algorithms** and selects the best one dynamically based on patient data. |
|  | 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. |
|  | Scalability of the Solution | Integrates into telehealth services to help **doctors remotely assess liver health** during online consultations. |