Ideation Phase
Brainstorm & Idea Prioritization Template

Date	20 June 2025
Team ID	LTVIP2025TMID41434
Project Name	Revolutionizing Liver Care : Predicting Liver Cirrhosis using Advanced Machine Learning Techniques
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

Brainstorming provides a free and open environment that encourages everyone.

Step-1: Team Gathering, Collaboration and Select the Problem Statement
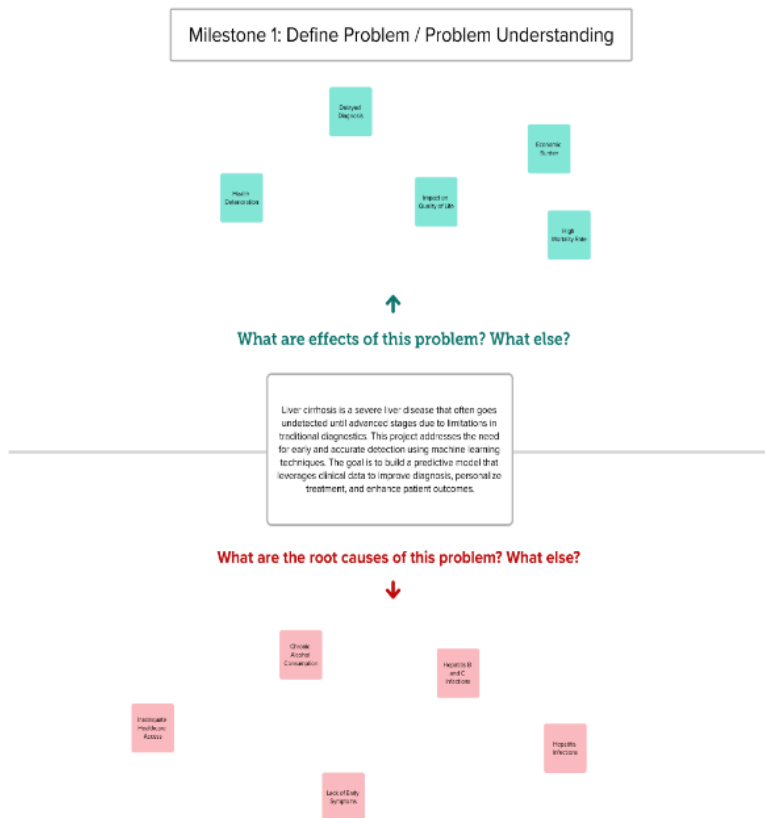
Our team initiated the ideation phase of our project, titled:

"Revolutionizing Liver Care: Predicting Liver Cirrhosis using Advanced Machine

Learning Techniques."

We collaborated through a virtual brainstorming session, where each member contributed

ideas on current healthcare challenges and how technology can intervene.

After discussing multiple healthcare issues, we collectively selected the following problem

statement as our project focus:

Problem Statement:

"There is a lack of early-stage liver cirrhosis detection tools that are affordable, non-invasive, and accessible to the general population, especially in rural or under-resourced areas."

This problem was prioritized based on real-world impact, data availability, scope for machine learning implementation, and potential societal benefits. Our team agreed that solving this issue can significantly improve liver care and prevent life-threatening complications through early intervention.

Step-2: Brainstorm, Idea Listing and Grouping
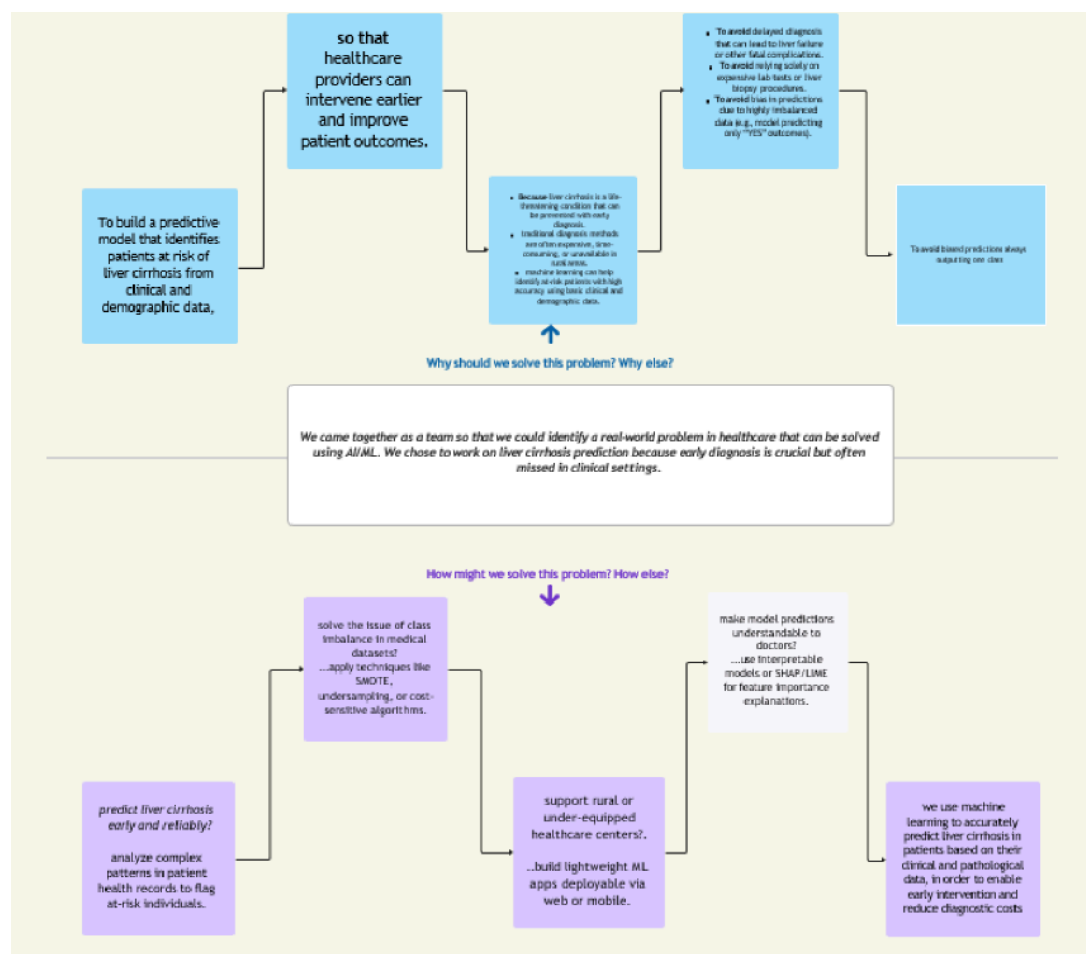
Step-3: Idea Prioritization

Based on this prioritization, we chose to proceed with:

"Use ML to predict liver cirrhosis using clinical data" as the central idea due to its high feasibility, high impact, and good scalability.

Use ML to predict liver cirrhosis using clinical data

High priority

Integrate early alert system in mobile health apps

Medium priority

Predict liver damage progression using time-series patient data

Low priority