Ideation Phase

Empathize & Discover

Date: 28 June 2025

Team ID: LTVIP2025TMID41166

Project Name: Revolutionizing Liver Care: Predicting Liver Cirrhosis Using Advanced

Machine Learning Techniques Maximum Marks: 4 Marks

Empathy Map Canvas

An empathy map is a simple, easy-to-digest visual that captures knowledge about a user's behaviors and attitudes. It helps teams better understand their users. Creating an effective solution requires understanding the true problem and the person who is experiencing it.

The exercise of creating the map helps participants consider things from the user's perspective along with their goals and challenges.

User Persona: Healthcare Professional (Doctor)

Thinks	Feels
"How can I detect cirrhosis earlier, before symptoms worsen?"	Worried about patients not getting diagnosed in time.
"I need a reliable, fast, and non-invasive tool."	Frustrated by limitations of traditional testing.
"Can technology help improve early detection?"	Eager but cautious about trusting ML predictions.
Says	Does
"We lose valuable time waiting for clear symptoms."	Orders lab tests, refers to specialists.
"I wish there were faster screening options."	Relies on liver function tests and imaging.

Thinks Feels "Diagnosis comes too late in many cases." Tries to interpret patterns in clinical reports manually.

▲ User Persona: Liver Patient

Thinks	Feels
"Is something wrong with my liver?"	Anxious and confused about symptoms.
"I can't afford to do multiple expensive tests."	Helpless about financial and medical limitations.
"Why are my results inconclusive?"	Frustrated and scared of not knowing the truth.
Says	Does
Says "I just feel tired all the time."	Does Googles symptoms, delays hospital visits.
•	Googles symptoms, delays

Insights Gained from Empathy Mapping

- Doctors need an assistive tool to improve early diagnosis of liver cirrhosis.
- Patients want non-invasive, affordable, and understandable health evaluations.
- Machine learning can bridge the gap between delayed diagnosis and early detection.
- A model that interprets clinical data and flags risk early can empower both doctors and patients.