Ideation Phase
Empathize & Discover

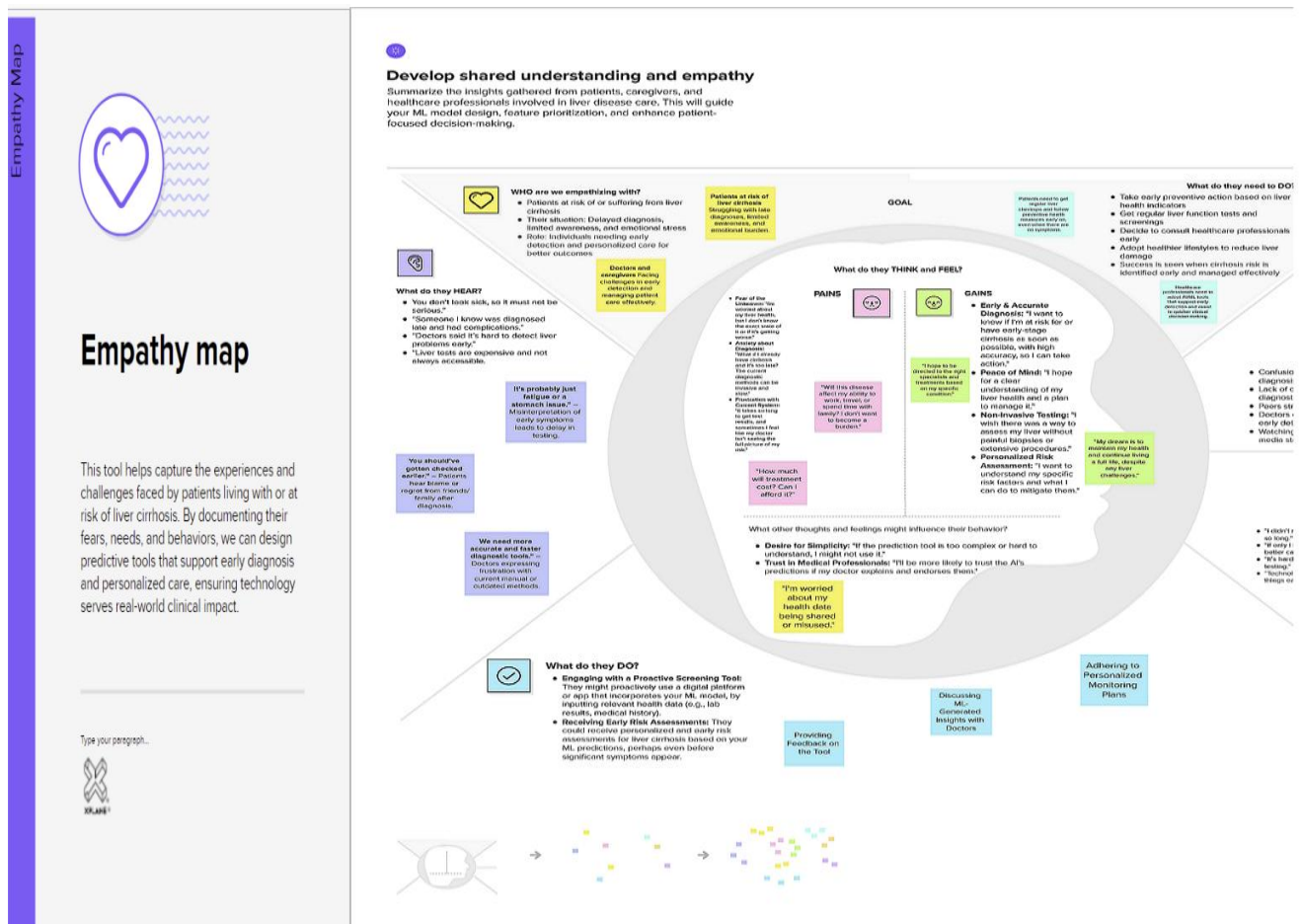| Date	27 June 2025
Team ID	LTVIP2025TMID37185
Project Name	Revolutionizing liver care: predicting liver cirrhosis using advanced machine learning techniques
Maximum Marks	4 Marks

Empathy Map Canvas:

An empathy map is a simple, visual tool that helps us understand the thoughts, feelings, behaviors, and needs of patients at risk of or living with liver cirrhosis.

For our machine learning–based liver cirrhosis prediction system, this map helps us build deep empathy with users—patients, caregivers, and healthcare professionals—so we can design a tool that is not only accurate, but also trustworthy, accessible, and meaningful in real clinical settings.

By exploring their fears, motivations, challenges, and interactions with current healthcare systems, we ensure that our solution addresses real-world problems and supports early diagnosis, personalized care, and better patient outcomes.

Example: Liver Cirrhosis Care

This empathy map captures the lived experiences, fears, and aspirations of patients who are at risk of or currently dealing with liver cirrhosis, as well as the challenges faced by caregivers and healthcare professionals. It is designed to inform the development of a machine learning–powered early diagnosis tool.

Through this map, we gain a deeper understanding of the emotional and practical pain points of patients — such as fear of the unknown, delayed diagnoses, and concerns over affordability and privacy — and their hopes for accurate, non-invasive, and personalized care.

By documenting:

- What patients think and feel ("Will this disease affect my family?"),

- What they hear ("You don't look sick"),

- What they say and do ("If I had known earlier, I would've taken better care"),

- What they need to do (adopt preventive actions, get regular checkups),

we're able to design solutions that align with real-world needs and emotional drivers.

This exercise helps ensure that the predictive model we build is not just technically accurate, but also user-centered, trustworthy, and empowering—enabling patients and doctors to detect cirrhosis early and take timely action.