

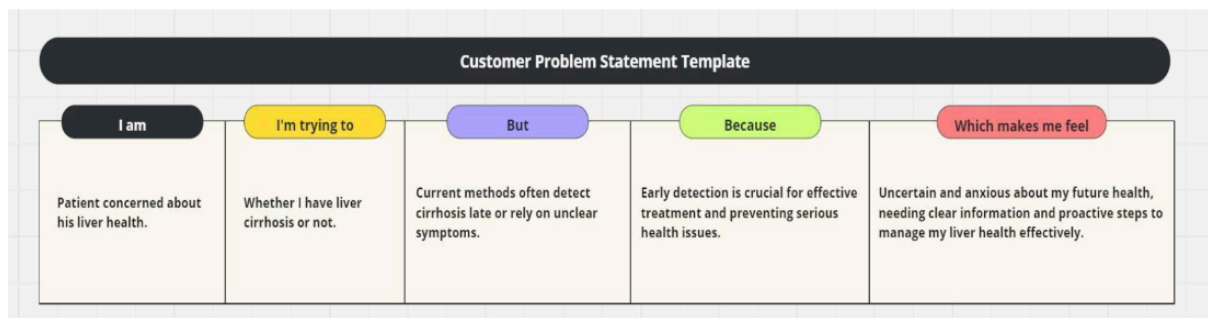
## Ideation Phase

### Define the Problem Statements

|               |  |
|---------------|--|
| Date          | 21 June 2025   |
| Team ID       | LTVIP2025TMID41434   |
| Project Name  | Revolutionizing Liver Care : Predicting Liver Cirrhosis using Advanced Machine Learning Techniques |
| Maximum Marks | 2 Marks  |

#### Define Problem Statement(Customer Problem Statement) :

Liver cirrhosis is a chronic, progressive condition that often goes undiagnosed until it reaches an advanced stage, leading to severe health complications and high mortality. Traditional diagnostic methods can be invasive, time-consuming, and may not detect early signs effectively. There is a critical need for an accurate, non-invasive, and early prediction system that can assist healthcare professionals in identifying at-risk patients. This project aims to address this gap by developing a machine learning model that uses clinical data to predict liver cirrhosis at an early stage, enabling timely treatment and improving patient outcomes.



| Problem Statement (PS) | I am (Customer)                           | I'm trying to                          | But  | Because  | Which makes me feel  |
|------------------------|---|--|--|--|--|
| PS-1                   | Patient concerned about his liver health. | Whether I have liver cirrhosis or not. | Current methods often detect cirrhosis late or rely on unclear symptoms. | Early detection is crucial for effective treatment and preventing serious health issues. | Uncertain and anxious about my future health, needing clear information and proactive steps to manage my liver health effectively. |
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