Project Design Phase
Problem – Solution Fit Template

Date	9 June 2025
Team ID	LTVIP2025TMID38618
Project Name	Revolutionizing Liver Care : Predicting Liver Cirrhosis using Advanced Machine Learning Techniques
Maximum Marks	2 Marks

Problem – Solution Fit Template:

The Problem-Solution Fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer's problem. It helps entrepreneurs, marketers and corporate innovators identify behavioral patterns and recognize what would work and why

Purpose:

- ❑ Solve complex problems in a way that fits the state of your customers.
- ❑ Succeed faster and increase your solution adoption by tapping into existing mediums and channels of behavior.
- ❑ Sharpen your communication and marketing strategy with the right triggers and messaging.
- ❑ Increase touch-points with your company by finding the right problem-behavior fit and building trust by solving frequent annoyances, or urgent or costly problems.
- ❑ **Understand the existing situation in order to improve it for your target group.**

Template:

Customer Segment(s)

People at risk of liver cirrhosis, e.g., alcohol users, hepatitis patients

Customer Constraints

Limited awareness, access to regular chack-ups delay in diagnosis

Available Solutions

Predictive ML web tool for early cirrhosis detection using health metrics

Jobs-To-Be-Done / Problems

Users want to assess liver health early to take preventive steps

Problem Root Cause

Delayed diagnosic due to lack

Patients visit goctors only when symptoms worsen

Channels of Behaviour

Web-based access via laptop or phone shared through cinics or health websites

Your Solution

Easy-to-use ML-based web app that predicts cirrhosis risk from basic inputs

Emotions Before / After

Before: anxiety, uncertainty
After: relief, direction, confidence