

## Project Initialization and Planning Phase

Date	19 May 2025
Team Id	SWTID1750233055
Project Name	Mental Health Prediction
Maximum Marks	3 Marks

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

The current mental health screening process in routine clinical practice is often limited, resulting in underdiagnosis or delayed identification of mental health conditions. Healthcare professionals face challenges in efficiently identifying at-risk individuals during general consultations, which can lead to missed opportunities for early intervention. This is especially critical as many patients may not voluntarily disclose symptoms due to stigma or lack of awareness. These gaps contribute to poorer patient outcomes and increased long-term healthcare costs.

To strengthen patient care and support early detection, we propose integrating a mental health prediction model into routine clinical workflows. By equipping healthcare providers with an intelligent screening tool, we can assist in proactively identifying patients who may benefit from further mental health evaluation. This solution enhances decision-making, streamlines referrals to specialists, and improves treatment timeliness—ultimately promoting better health outcomes and fostering a more holistic approach to patient wellness.

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A primary care doctor seeing routine patients.	Identify patients at risk for mental health issues.	I don't have enough time or tools to screen each patient effectively.	Early detection can prevent severe conditions and improve outcomes.	Concerned I might miss a patient who needs help.