Project Initialization and Planning Phase

Date	12 June 2025
Team ID	SWTID1749618778
Project Name	Rising Waters: A Machine Learning Approach To Flood Prediction
Maximum Marks	3 Marks

Problem Statement:

To develop an effective and human-centred flood prediction system, it is essential to understand the challenges faced by those directly impacted by flooding. "Rising Waters" aims to serve individuals living in flood-prone regions and emergency response teams by providing timely, accurate flood forecasts using machine learning. Currently, many residents and officials struggle with unreliable or delayed warnings, often due to outdated or disconnected data sources. This lack of accurate forecasting leaves people feeling anxious, unprepared, and overwhelmed. By clearly defining these user pain points, "Rising Waters" can offer a solution that not only predicts floods more effectively but also builds trust and resilience in vulnerable communities.

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	a resident living in a flood-prone area	stay informed about possible floods	I don't receive timely or reliable warnings	there's no accurate, real-time prediction system in place	anxious and unprepared

PS-2	a disaster response team coordinator	plan evacuation and allocate resources	I can't predict where floods will hit next	existing data is outdated and scattered across systems	helpless and overwhelmed