

## Project Initialization and Planning Phase

Date	14 JUNE 2025
Team ID	SWTID1749621188
Project Name	Anemia Sense Leveraging-Machine Learning-For-Precise Anemia Recognition
Maximum Marks	3 Marks

### Problem Statement :

Anemia is a widespread health condition that often goes undiagnosed due to limited access to diagnostic tools and delayed clinical evaluations. Current methods for anemia detection can be invasive, costly, and inaccessible in remote or underserved regions. *Anemia Sense: Leveraging Machine Learning for Precise Anemia Recognitions* aims to develop a non-invasive, intelligent diagnostic system utilizing machine learning algorithms to accurately identify and classify anemia. This solution seeks to enhance early detection, reduce diagnostic costs, and provide scalable, real-time support for healthcare providers and patients worldwide.



Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A rural patient experiencing chronic fatigue.	Understand my health condition accurately.	Limited access to proper diagnostic tools.	Symptoms suggest anemia, but confirmation is unclear.	Anxious but hopeful for early detection.
PS-2	A frontline health worker in a low-resource area.	Accurately identify anemia in patients.	Lack access to lab equipment and diagnostics.	Patients show signs of anemia, but manual checks are unreliable.	Concerned yet eager for an effective solution.