Project Initialization and Planning Phase

Date	15 March 2024
Team ID	SWTID1720437019
Project Name	Thyroid Classification
Maximum Marks	3 Marks

Define Problem Statements (Customer Problem Statement Template):

The current loan application process challenges customers, impacting their journey and overall satisfaction. Applicants, particularly those seeking urban property loans, encounter hurdles such as limited co-applicant income and a cumbersome application process. These challenges lead to a less-than-optimal customer experience, potentially affecting trust and satisfaction. To enhance our services and improve customer perceptions, we aim to address these pain points. By understanding customers' specific frustrations during the application journey and implementing solutions, we can create an efficient, user-friendly experience that aligns with our customer's expectations and fosters a positive relationship with our brand.

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A male applicant seeking a loan.	Secure a loan for the property.	Married with no co-applicant income.	Self-employed with a good credit history.	Optimistic about loan approval.
PS-2	A medical researcher	Classify thyroid conditions using ML	Have limited labeled data	Accurate classification is crucial for treatment	Concerned about model accuracy and reliability

PS-3	A healthcare provider	Diagnose thyroid conditions quickly	Need to ensure accuracy	Early and accurate diagnosis can improve patient outcomes	Anxious about potential misdiagnosis
PS-4	A data scientist	Build a robust ML model for thyroid classification	Have imbalanced dataset	Some thyroid conditions are rare	Challenged by the need to balance precision and recall
PS-5	A hospital administrator	Implement an automated diagnostic tool	Have budget constraints	Automation can reduce operational costs and improve efficiency	Worried about initial investment and ROI
PS-6	A clinical researcher	Improve the accuracy of thyroid condition classification	Have a limited dataset	Accurate models can lead to better research outcomes	Determined but concerned about data limitations
PS-7	A patient	Understand my thyroid condition better	The technical details are complex	Better understanding can lead to more informed decisions about my health	Confused about the medical jargon and results