

Project Initialization and Planning Phase

Date	20 June 2024
Team ID	740005
Project Name	Estimating Presence or Absence of Smoking Through Bio Signals
Maximum Marks	3 Marks

Define Problem Statements (Customer Problem Statement Template):

The problem statements outlined aim to address the challenge of accurately estimating smoking behavior using biosignals. From developing robust detection systems and real-time monitoring devices to validating biosignal patterns and integrating them into effective intervention strategies, these statements reflect the diverse facets of research and development needed to advance the field. Ultimately, by leveraging biosignals such as heart rate variability, skin conductance, and respiratory patterns, the goal is to enhance accuracy in identifying smoking behaviors, supporting personalized interventions, and improving smoking cessation outcomes.

Problem Statement (PS)	I am (Customer)	I' m trying to	But	Because	Which makes me feel
PS-1	A researcher in biomedical engineering.	Develop a system for estimating smoking presence through biosignals.	Limited access to diverse biosignal datasets.	To advance understanding and detection of smoking behaviors using objective measures.	Confident in contributing to public health and smoking cessation efforts.