

## Project Initialization and Planning Phase

Date	21 october 2024
Team ID	739879
Project Name	Strain Analysis based on Eye blinking
Maximum Marks	3 Marks

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

This project aims to develop an intelligent eye blink detection system that uses a webcam and neural network model to monitor a user's blink frequency. This system will track eye movements and identify if the blink count falls outside the normal range (too few or too many blinks), indicating potential eye strain. In such cases, the system will alert the user through a popup message and an audio notification, prompting them to adjust their habits to prevent eye discomfort.

### Example:

Problem Sttement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Developing a system to monitor eye blinking patterns and prevent eye strain during prolonged screen use.	Create a user friendly solution that alerts individuals when their blinking patterns deviate rom normal, signaling potential eye discomfort.	Detecti ng and analyzi ng eye blinkd in real time using a webcam and neural network presents challen ges in accurac y and responsi veness .	Detecting subtle changes in blink frequency can provide early warnings of eye fatigue or strain, helping users take proactive measures.	Excited about contributeing to better eye health and improving user comort, especially for those who spend long hous in front of screens.