Project Initialization and Planning Phase

Date	11 September 2024
Team ID	739753
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 identiy 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.	Detecting and analyzing eye blinkd in real time using a webcam and neural network presents challenges in accuracy and responsiveness .	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.