# Project Design Phase-I
# Proposed Solution Template

| Date | 06 May 2023 |
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| Team ID | NM2023TMID12828 |
| Project Name | Drowsiness detection and alerting system |

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

| S.No. | Parameter | Description |
|---|---|---|
| 1. | Problem Statement (Problem to be solved) | The problem to be solved is the development of a drowsiness detection and alerting system that can accurately and timely identify drowsiness-related indicators in real-time, such as eyelid movements, yawning, head drooping, or changes in facial expressions. The system should provide timely alerts to individuals, such as drivers, to prevent accidents and promote safety. |
| 2. | Idea / Solution description | the drowsiness detection and alerting system aims to enhance safety, particularly in scenarios like driving, where drowsy driving can lead to accidents with severe consequences. |
| 3. | Novelty / Uniqueness | you can enhance the accuracy, adaptability, and user experience of the drowsiness detection and alerting system, setting it apart from traditional systems and addressing specific challenges associated with drowsiness detection. |
| 4. | Social Impact / Customer Satisfaction | a robust drowsiness detection and alerting system can positively impact society by reducing accidents, enhancing safety in various settings, promoting well-being, and improving customer satisfaction through personalized and user-friendly experiences. |
| 5. | Business Model (Revenue Model) | It's important to consider the target market, competition, and customer preferences when selecting a revenue model. A combination of revenue models may also be viable depending on the specific business goals and market dynamics. |
| 6. | Scalability of the Solution | scalability considerations, the drowsiness detection solution can accommodate growing user bases, expanding sensor networks, and increasing data volumes, ensuring its effectiveness and usability as it scales. |