**Project Title:** Smart Alarm Clock

**Group Number:** 12

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**Sensor:**

* Motion Sensor
* Light Sensor
* Sound Sensor (microphone)

**Abstract:** Smart Alarm Clock is an application designed to improve how people wake up in the morning. By integrating various sensors, this app ensures users wake up at the optimal time in their sleep cycle, improving overall well-being. The application connects to a smartphone, using motion, light, and sound sensors to monitor the user's sleep environment and patterns.

**Scenario:** The Smart Alarm Clock targets people who struggle with waking up in the morning and those who want to improve their sleep quality. Using data from different sensors, the app can gently wake users during a light sleep phase, making the waking process more pleasant and less uncomfortable.