**Project Name: SMART ALARM**

**Problem:**

Usually, when alarm starts we will snooze it or we will stop alarm. Using snooze and stop options we will wake up late after 3 or 4 alarms. We wake-up 10-20mins late every day. We will be late to work.

While we are travelling in buses or subways, sometimes we fall asleep, and miss our stop. To get down at correct stop we need a location-based alarm, which alerts us before with an alarm 500mts from destination.

**Solution:** Here is the solution for these problems. “SMART ALARM” solves these problems. There is no snooze or stop button for wake-up alarm. To stop wake-up alarm, you should walk minimum 20 steps (50 feet). If you do not walk for 20 steps, the alarm rings continuously. For location-based alarm, you will get alarm before 500mts from your destination. Using this alarm, you will not miss your destination and you will not be late to work. While we are travelling from work to home, if we want to stop at Walmart you can also use location-based alarm.

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**Project Description:**

* It consists of two parts location-based alarm and wake-up alarm
* In location-based alarm – you need to set alarm based on location by enabling GPS. It starts alarm before 500mts from desired location.
* In wake-up alarm – you need to set time for alarm. To turn off alarm, you need to walk at least 20 steps. There is no snooze or stop option for alarm.

**Activities Involved:**

* **Alarm type selection activity:** In this activity there are two buttons, one for setting wake-up alarm and other for location-based alarm.
* **Setting wake-up alarm:** To set clock for alarm.
* **Counting steps of the person:** To count the no. of steps walked by a person. A person should walk minimum 20steps or can use custom step count while setting alarm. If person not walked for minimum 20steps the alarm will not go off.
* **Setting location-based alarm:** To set location on the map for alarm.
* **Option for switching off alarm for location-based alarm:** In this screen it displays “you have reached your destination” and displays alarm turn off button.
* **Integrating with maps:** To track location we need maps, we need to identify all stores and stations and restaurants on Map. Should alert before 500mts from destination.

**Persist on the app:**

* Data for Repeated alarm.
* App must be running in background.
* App should identify all locations like restaurants, Gas stations all in the map.
* Integrate with Google maps.
* Save important locations (ex: Home, office)