



PROJECT TITLE: WeCare Personnel Safety Monitoring System

IHL: University of Malaya

Group Name: WeCare

Group Member: Ong Jia Aun, Ong Seow Sze, Teoh Khau Kheng,

Wang Zhong Qi

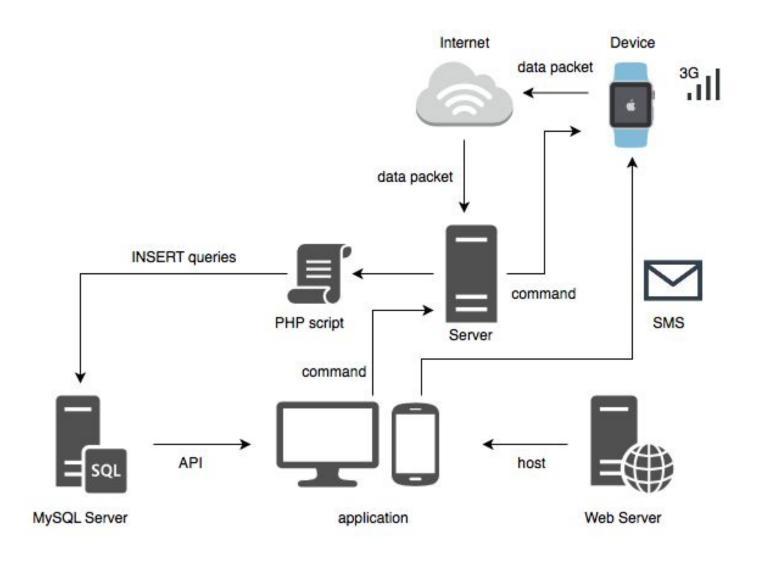
## Objective/Problem Statement

Construction site workers, especially in Malaysia, usually does not comply to the OSHA standard of equipment requirement. This is very dangerous as it increases the rate of injury significantly. With buildings getting taller and bigger, so do construction sites. Site supervisors are having a hard time to determine where a worker might be at a given time. Thus, it might be hard for the supervisors to react on time when an accident occurs. Current market trend indicates that the worker health status and location is important to keep track as it provides some indicator to an accident might occur.

#### Below is the Objective of our Product:

- To be able to monitor the heart conditions of the worker in real time
- To be able to track the locations of the workers in real time
- To store and analyse workers' health and location data
- To enable two-way communication between site supervisors and workers

# **Program Overview**



### How does it work/What problem does it solved

#### Hardware side

Worker wears the device on duty

Device will automatically transmit location data and heart rate to server

Server will process the data packets and store into database

Worker can send SOS signal via device to the server

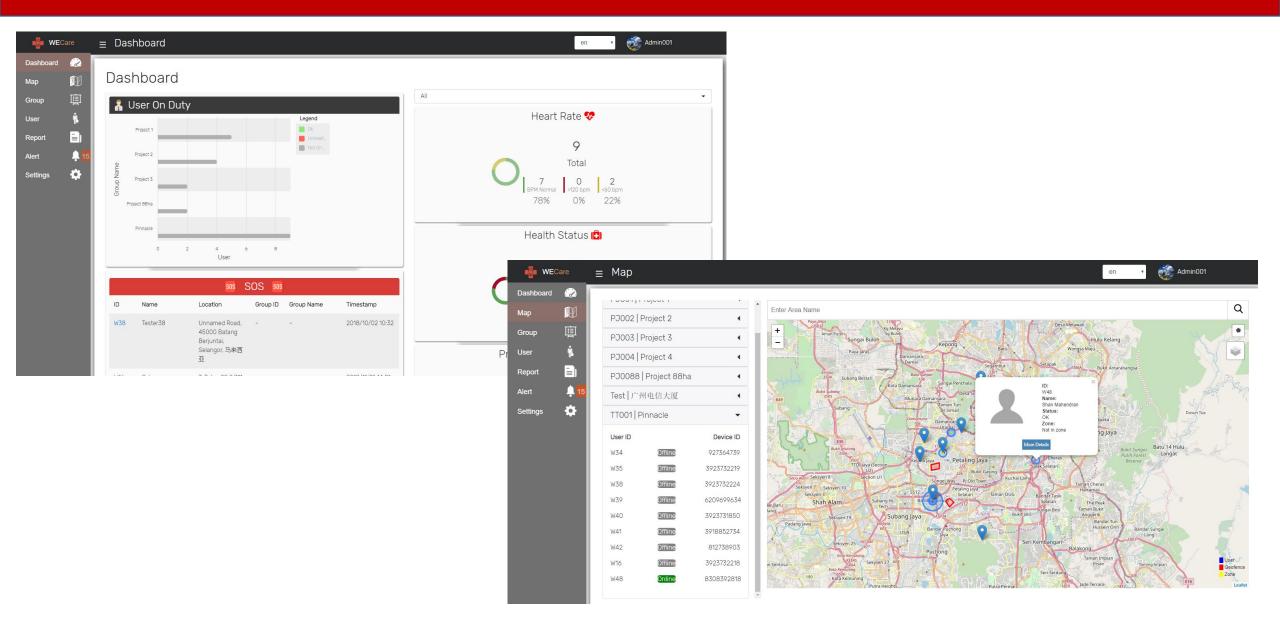
#### Software side

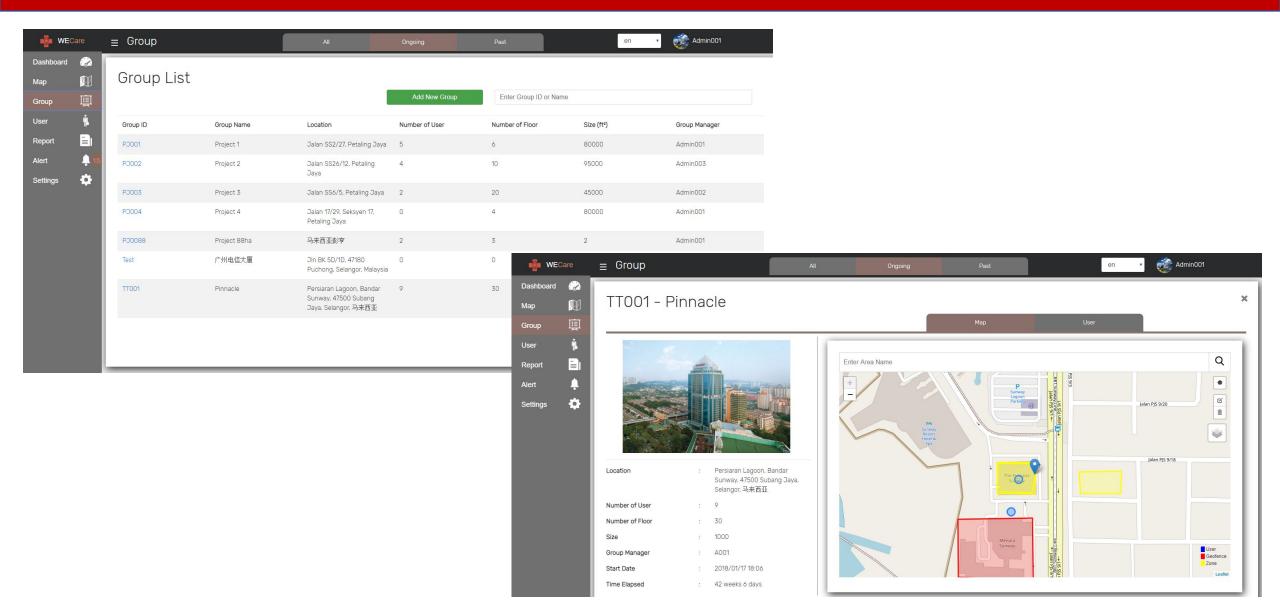
Application will query server API every few seconds

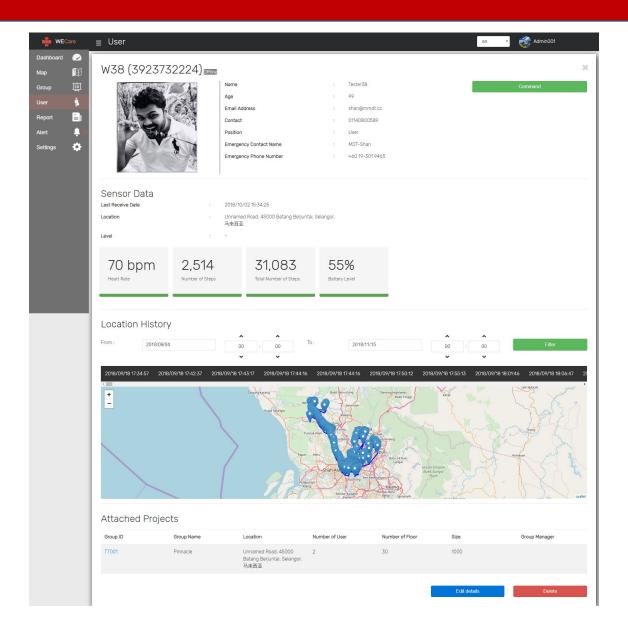
Application will refresh the displayed data automatically

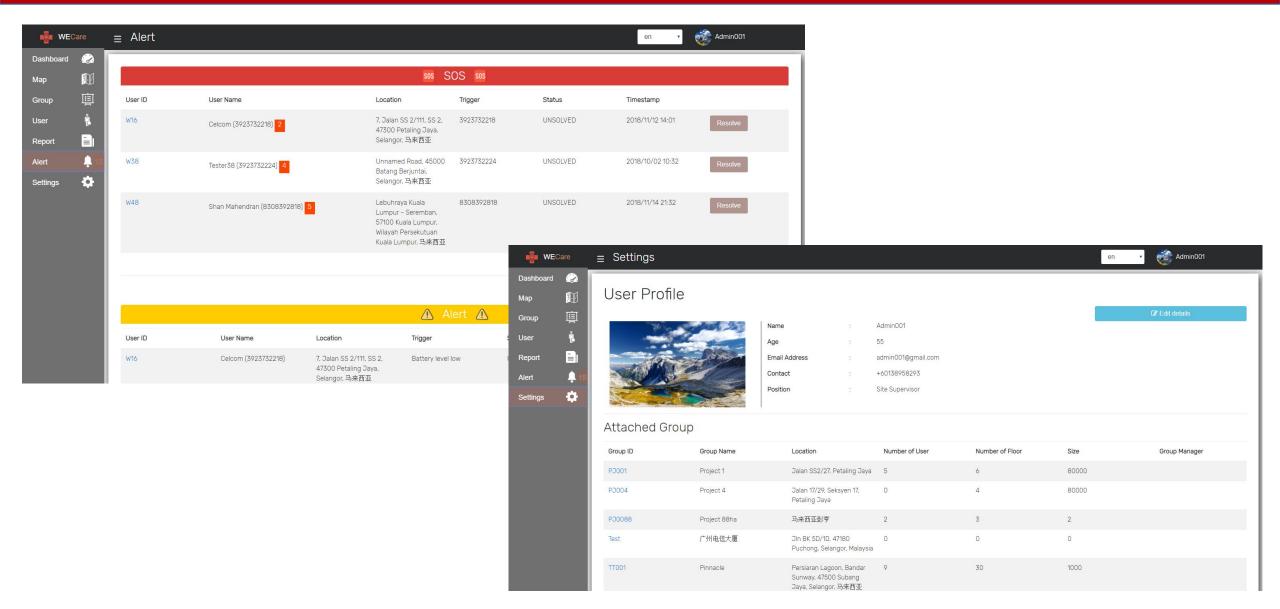
Application will pop up alert or SOS triggered by device

User can send message or command to the device via application

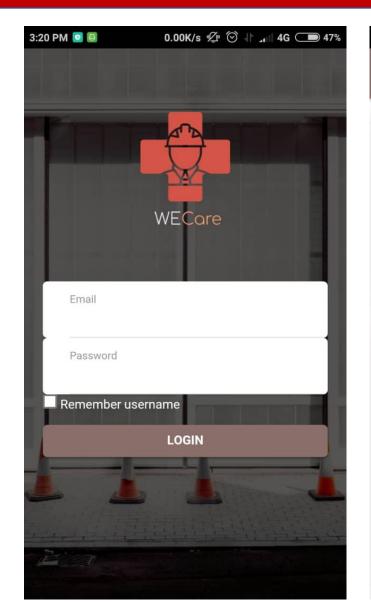


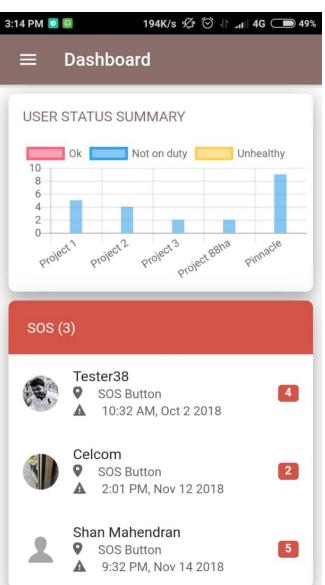




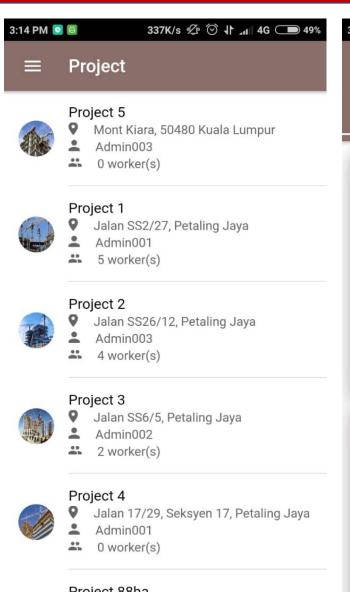


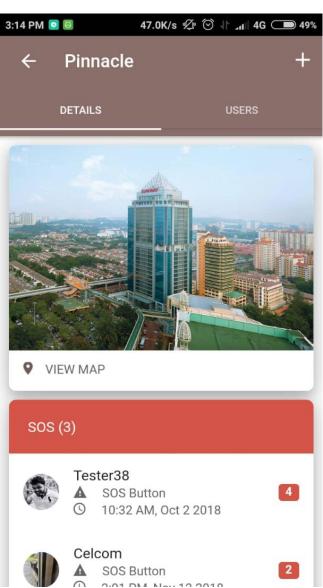
## Demo Page - Mobile Application

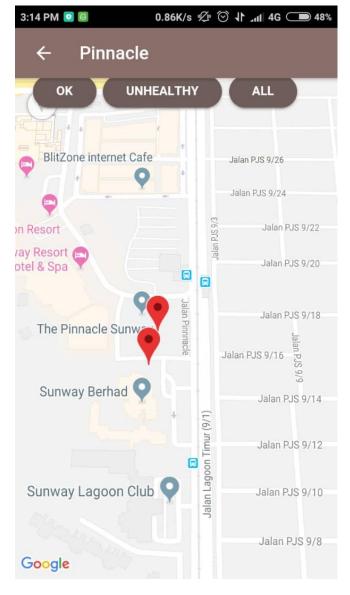




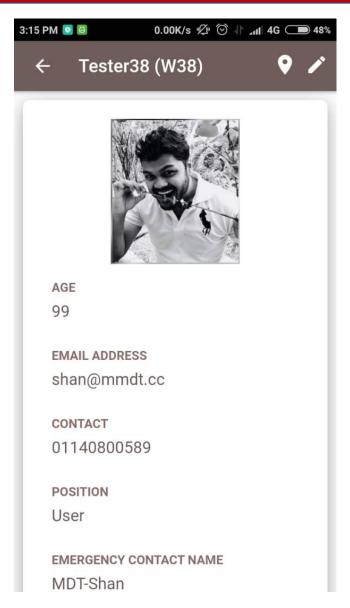
## **Demo Page - Mobile Application**

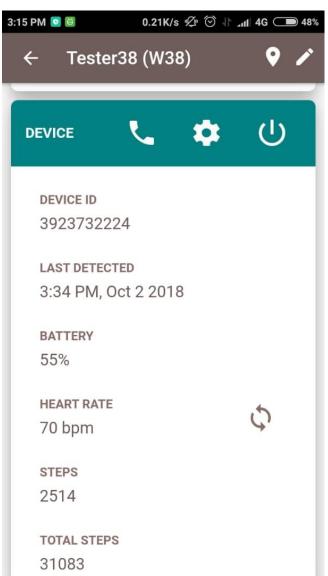


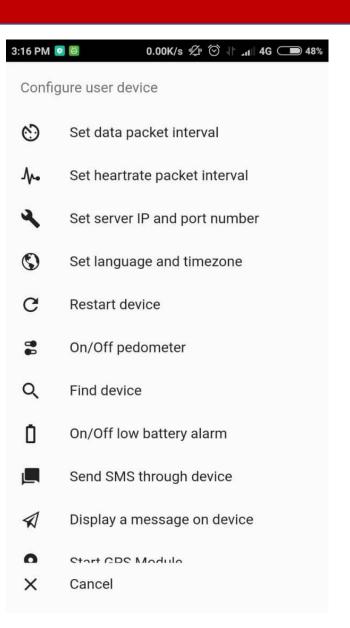




## Demo Page - Mobile Application







#### **THANK YOU**

#### **Team Members**

ongja96@gmail.com ongseowsze@gmail.com khenggy111@gmail.com kate.wang22@gmail.com