

A Web Portal for Healthcare Services

Student: Lau Zhen Jie

Supervisor: Dr. Shen Zhiqi

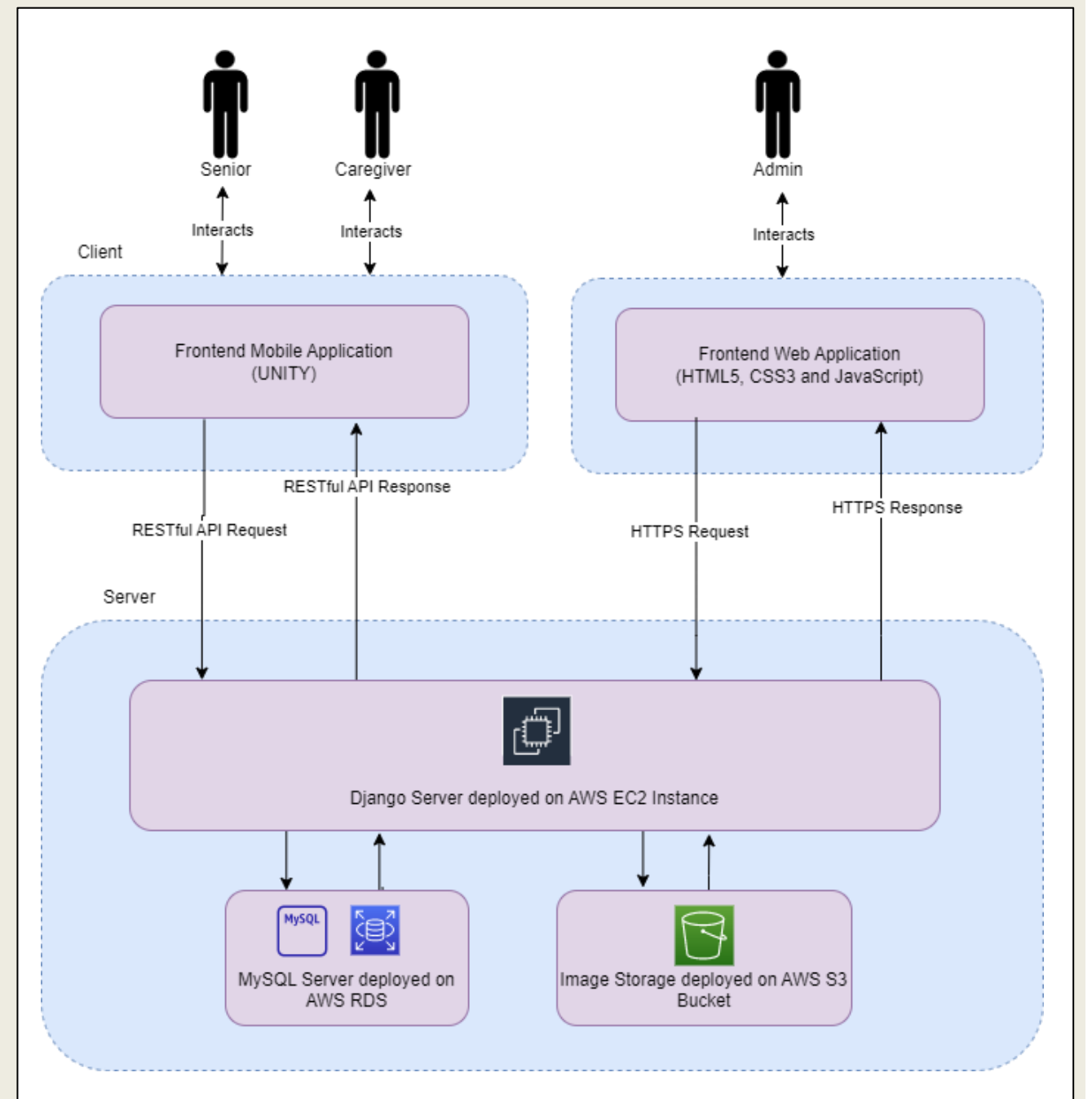
Background

Ageing population in Singapore is increasing rapidly. It is estimated that by 2030, 1 in 4 citizens will be aged 65 and above according to a report by The Straits Times. According to Ministry of Health (MOH), 10% of this population are living alone. There is a need to monitor their activities at home without invading their privacy so that they can age safely and comfortably at their home.

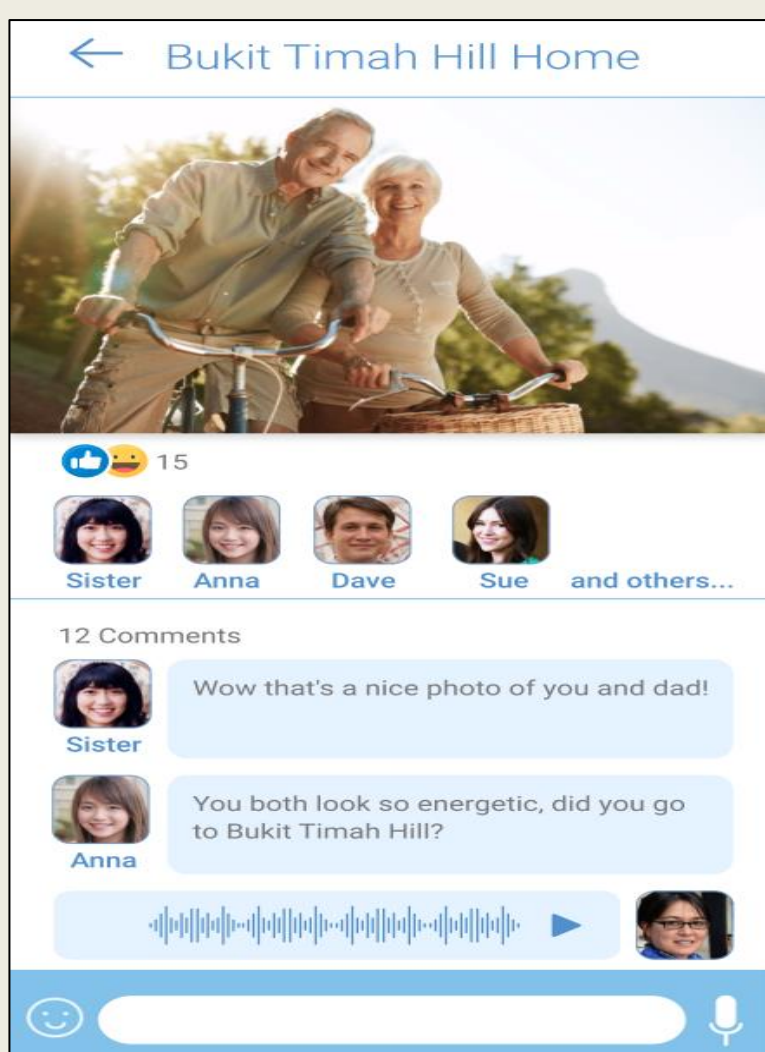
Project Objectives

- Develop an application which allows the caregivers to keep track of the senior's daily activities as well as planning their upcoming events and interacting with them.
- Allows the admins to visualize the data obtained from the sensors for analysis purpose.

System Architecture

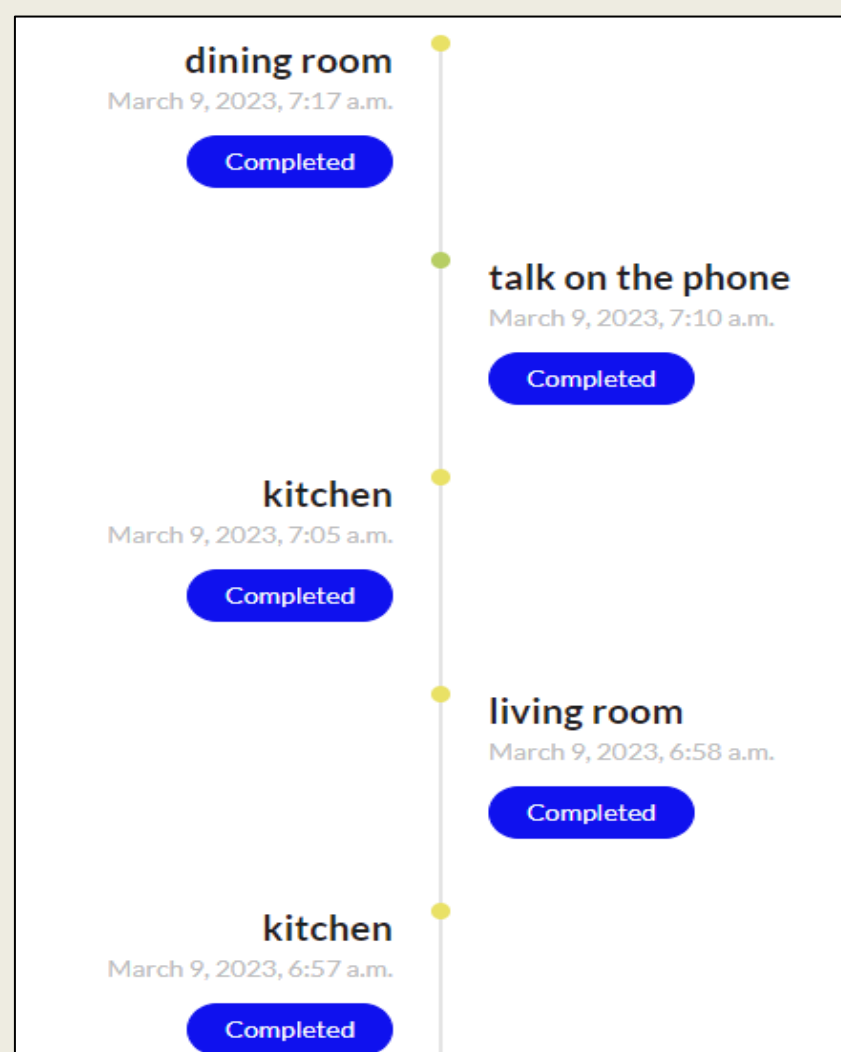


Memory Interactions



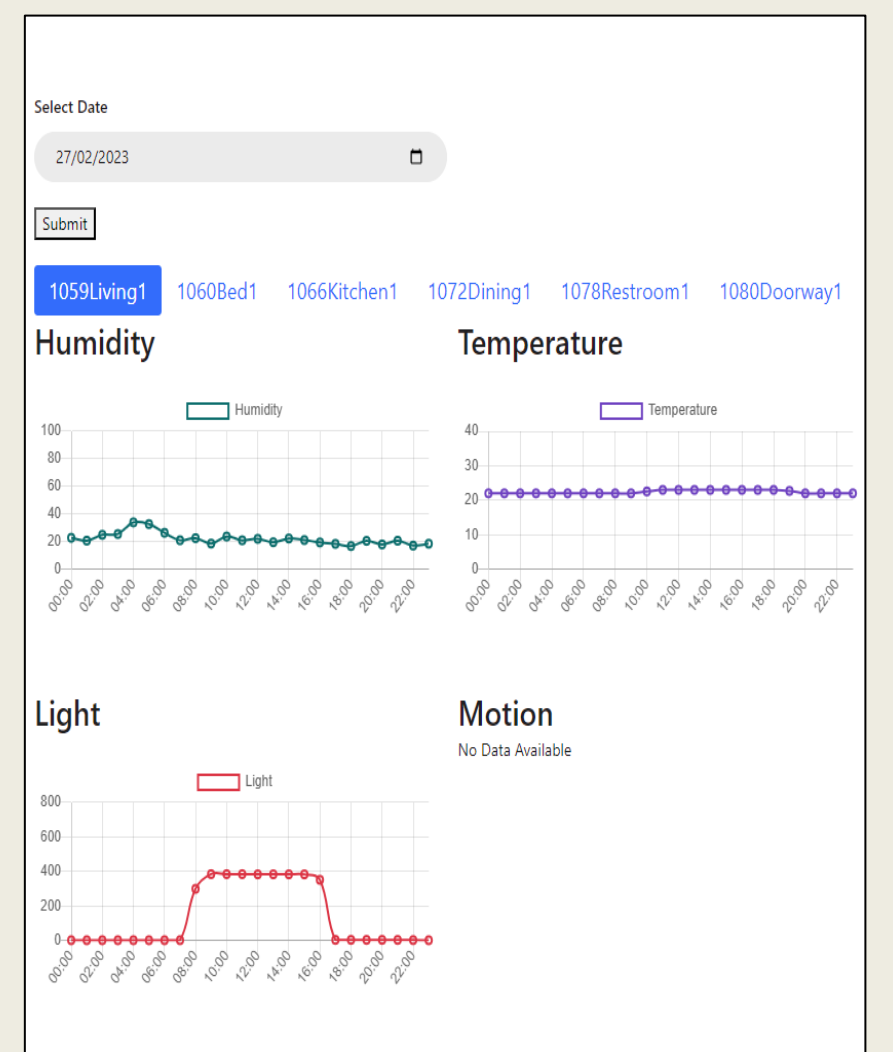
Interactions between senior and caregivers through backend APIs

Activity Timeline (Admins)



Timeline for activities done by seniors at home

Data Visualization (Admins)



Visualization of sensor data for analysis purpose