

**Name: Hamad Khan**

**Reg No: SP23-BSE-006**

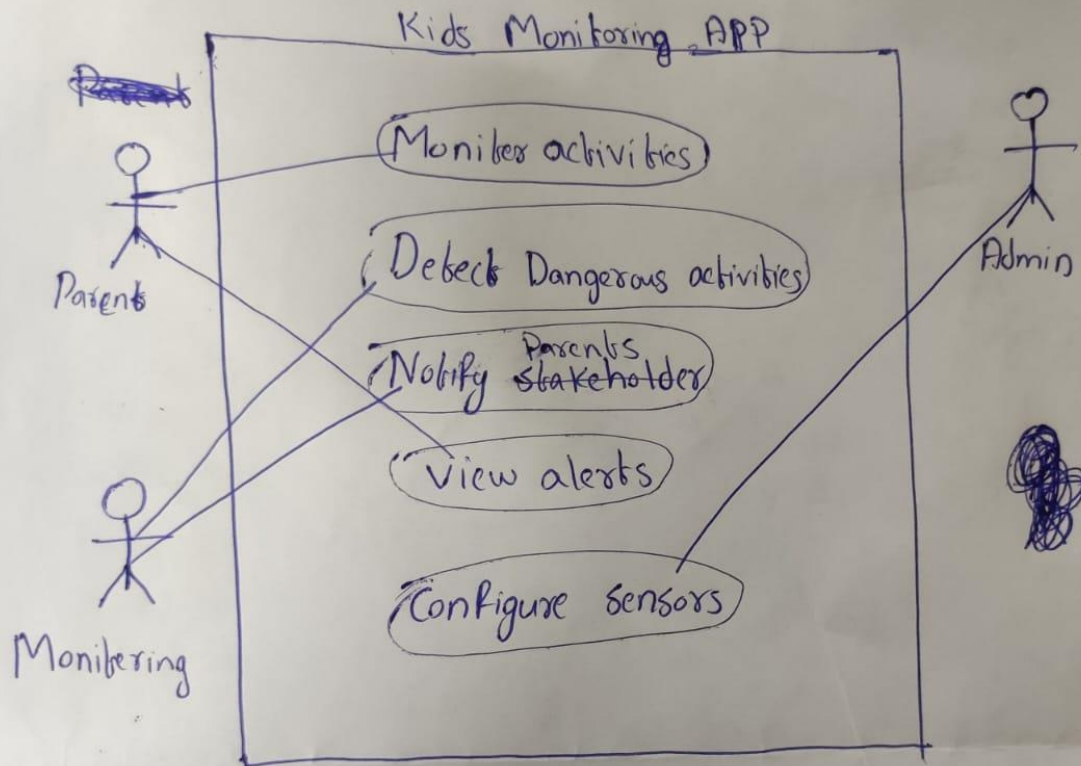
**Teacher: Mukhtiar Zamin**

**Date: 21/5/2025**

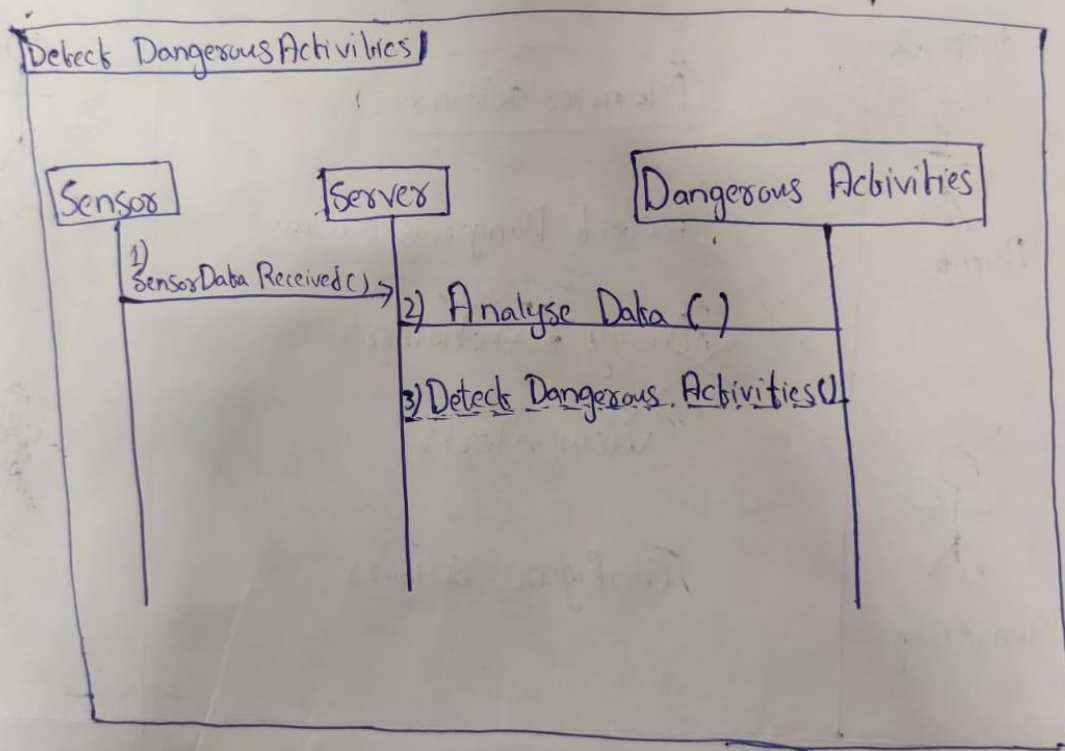
**Mid Lab**

Name: Hamad Khan

Reg: SP23-BSE-006(5A)



## System event Diagram



## Pick One Use Case for Implementation

I have picked **Detect Dangerous Activity**

The Pattern I have used is **Observer Pattern**

The reason I am using observer pattern is that

The IoT Sensor act as a subject which notify observer like the monitoring system, parent app, emergency services when any dangerous activity is detected