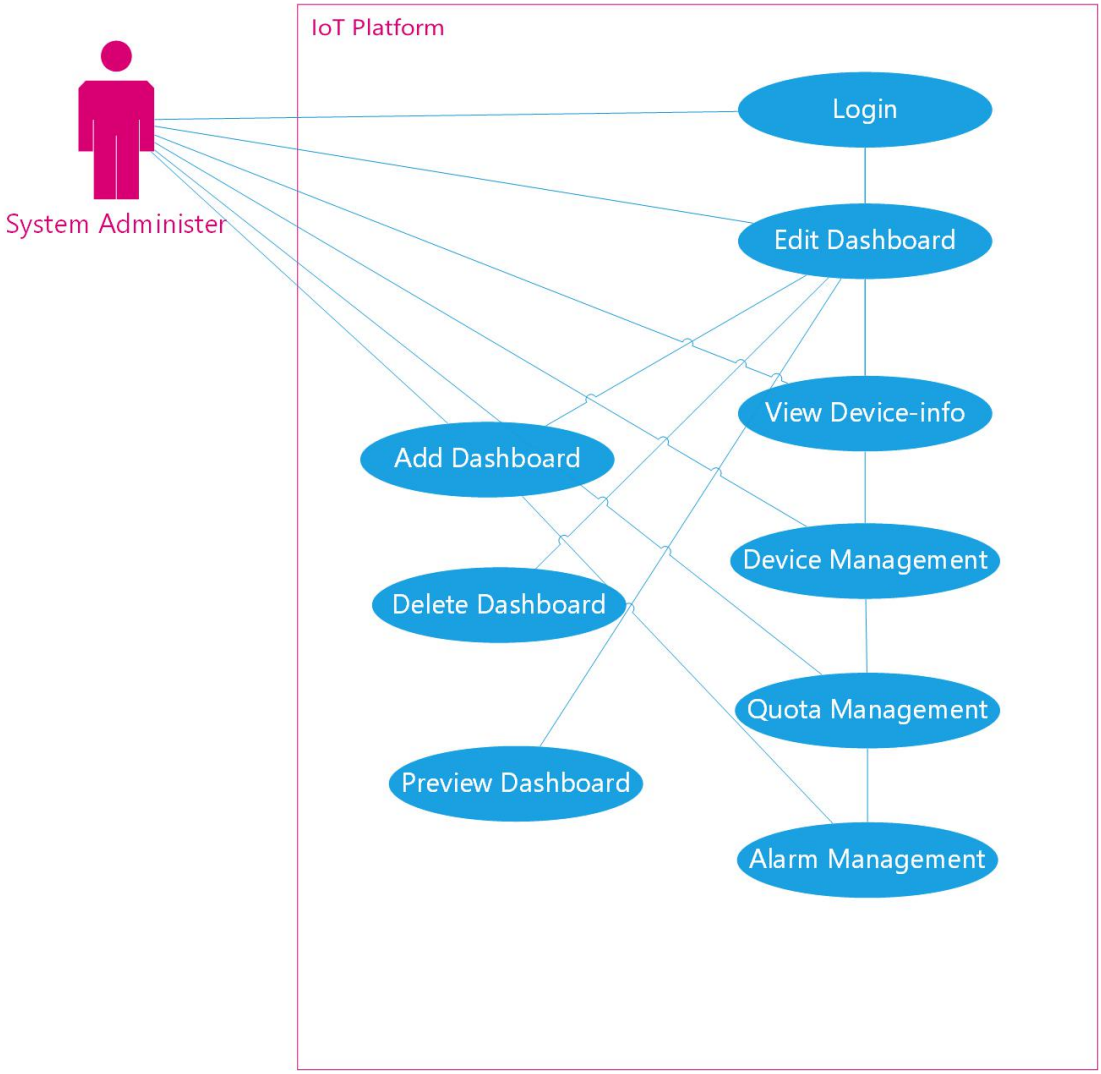
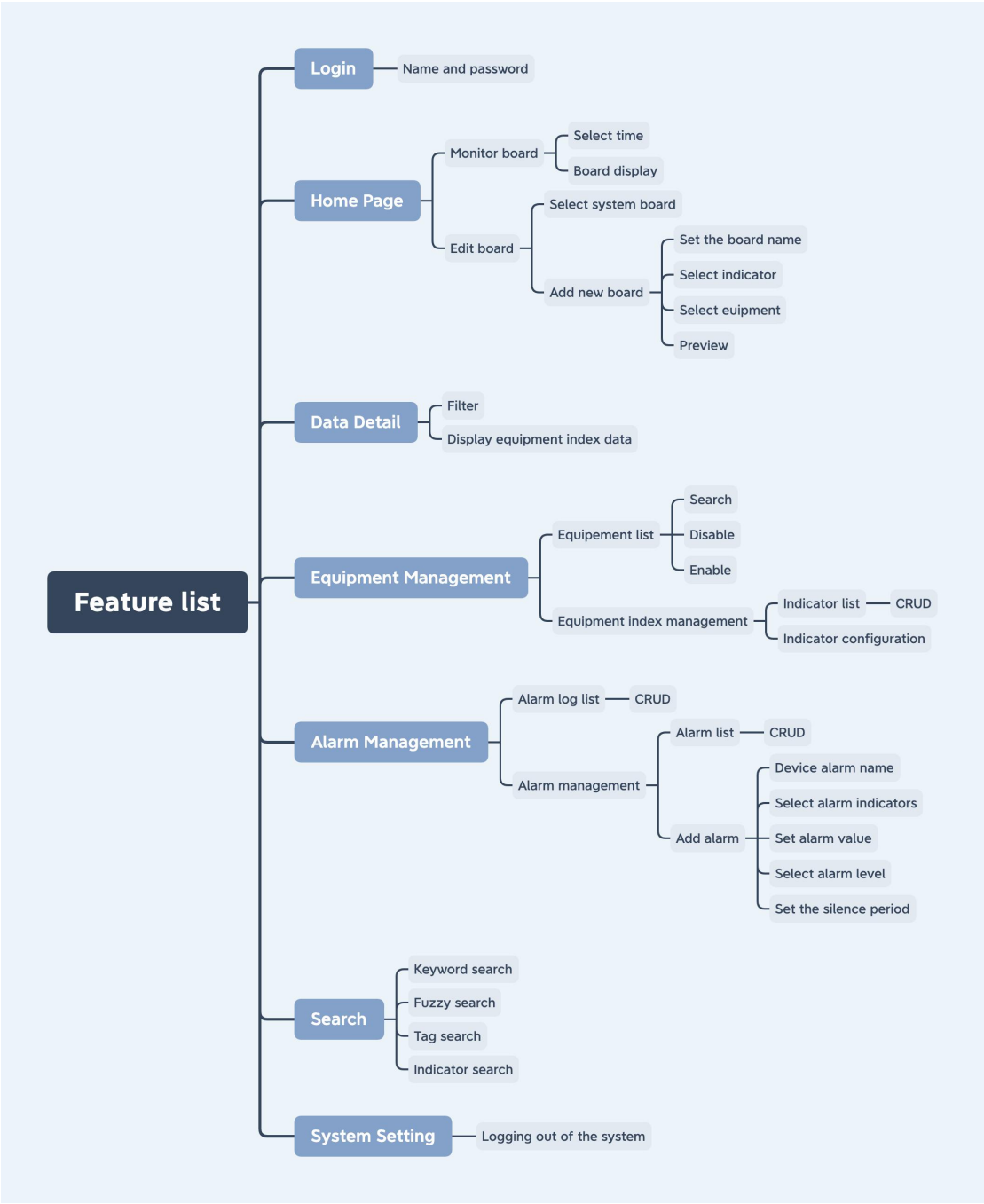
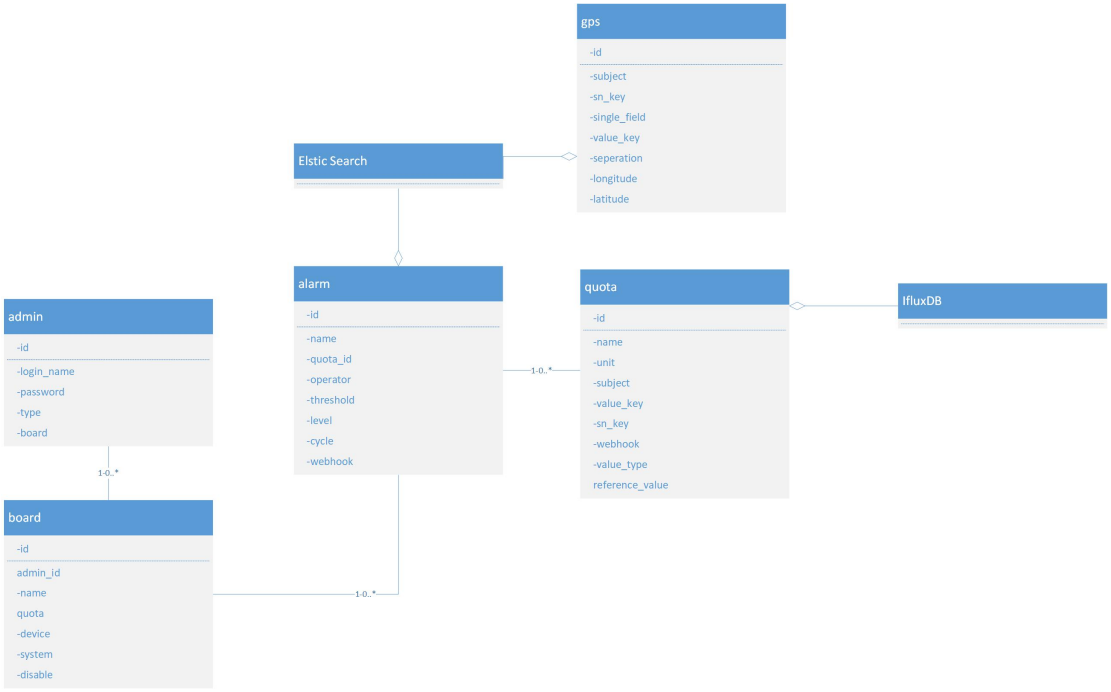
Team 11 Members:
Binghan Geng - A20482350
Paul Ojo - A20481173

1. Use-case Model:

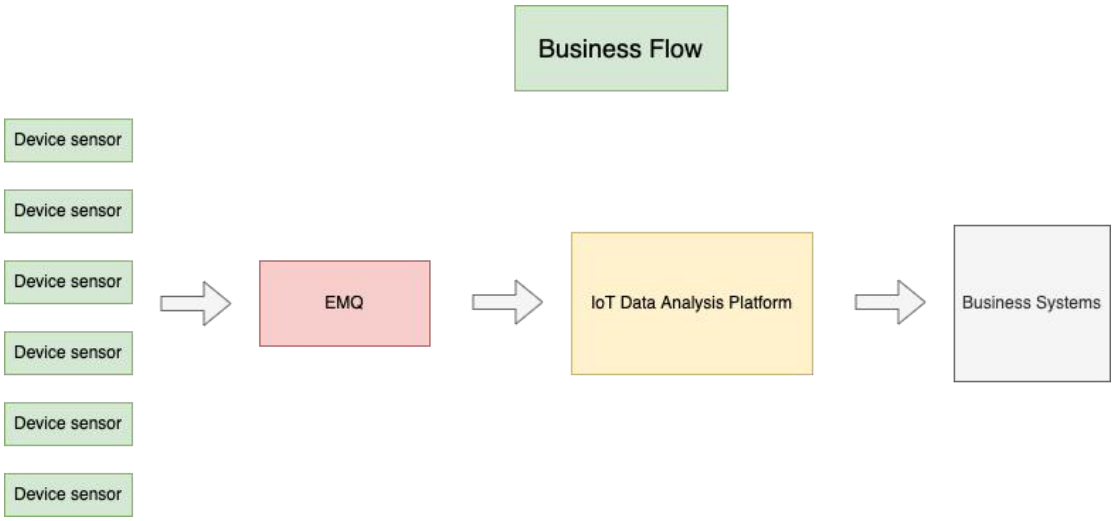



Feature list
Login
Name and password
Home Page
Monitor board
Select time
Board display
Edit board
Select system board
Add new board
Set the board name
Select indicator
Select euipment
Preview
Data Detail
Filter
Display equipment index data
Equipment Management
Equipement list
Search
Disable
Enable
Equipment index management
Indicator list
CRUD
Indicator configuration
Alarm Management
Alarm log list
CRUD
Alarm management
Alarm list
CRUD
Add alarm
Device alarm name
Select alarm indicators
Set alarm value
Select alarm level
Set the silence period
Search
Keyword search
Fuzzy search
Tag search
Indicator search
System Setting
Logging out of the system

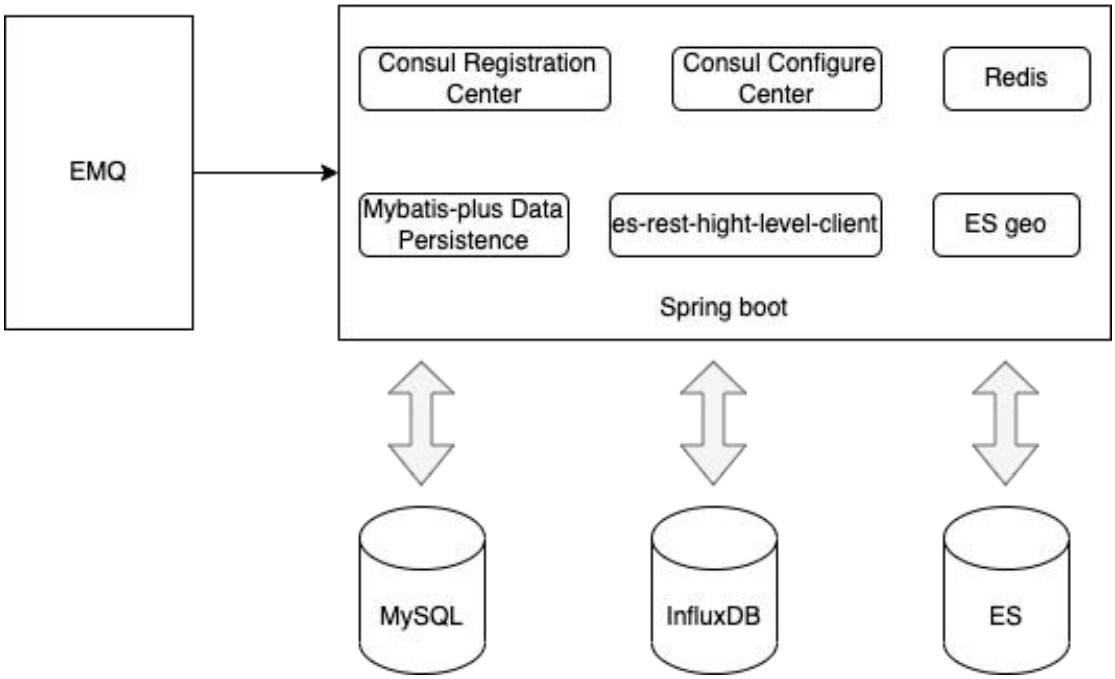
2. Domain Model:



3. Design Model:



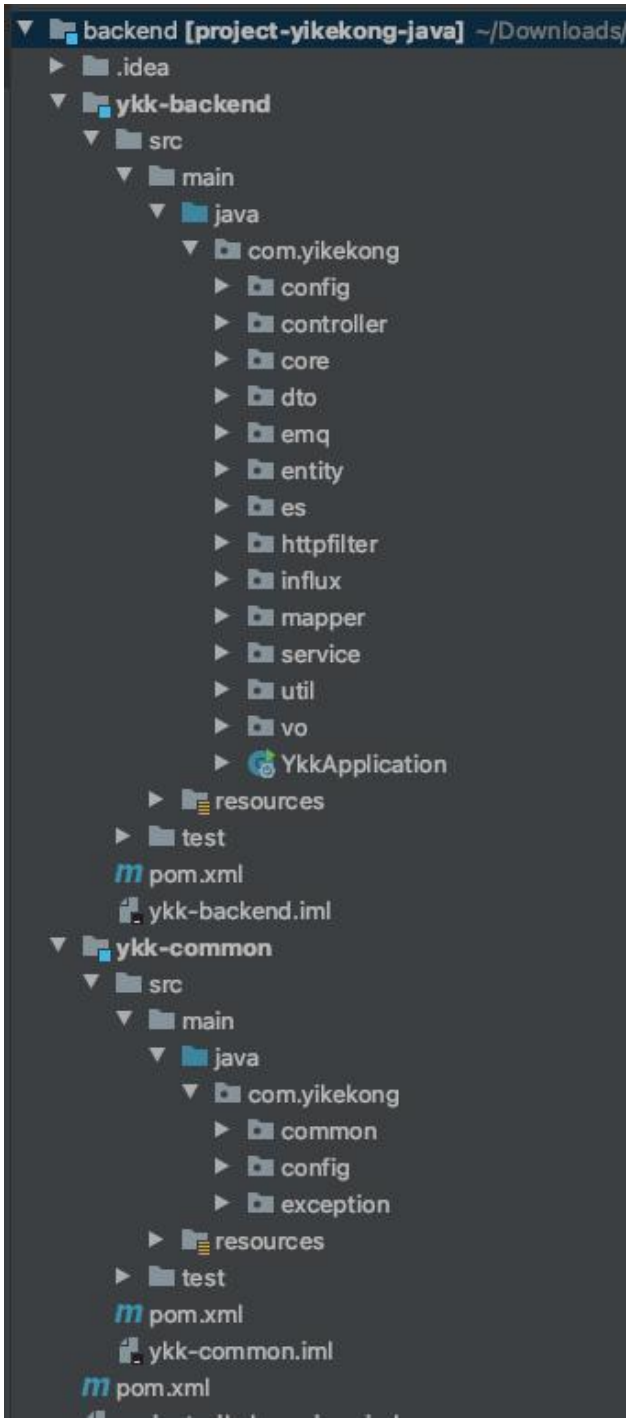
IoT Data Analysis Platform Back-end Design



Business Architecture

4. Design Patterns Utilized:

The project use JAVA Spring Boot framework design, is divided into two main parts: ykk-common and ykk-backend:The ykk-common module put some basic common definitions of the system, including

common exception definitions, database connection definitions, and some constant definitions.

The ykk-backend module is the implementation code of our backend logic, which is split into specific packages according to the specific functionality implemented.