CS5031 Assignment3 Group 7

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Estate Agency System

Multi-user online house sale management system

Data structure

➢ **User**
- ser_id (p_key)
- user_name
- user_phone
- user_email
- user_address
- user_position(admin, manager, customer)

➢ **Permission**
- permission_id
- permission_url

➢ **Building**
- building_id (p_key)
- building_name
- building_address

➢ **Flat**
- flat_id (p_key)
- building_id (p_key, f_key)
- flat_name
- user_id (f_key)
- flat_area
- flat_sold_out_date
- flat_price

➢ **User_Permission**
- user_id
- peimission_id

Technologies

- **Front-end**
  - GUI Client
    - › React + UI framework
    - › Axios (an Ajax framework supported in React)
  - Terminal Client

- **Back-end**
  - Spring Boot
  - Maven
  - Swagger + Postman
  - Spring Security (Authentication and Authorization)
  - MySQL (structured database, storing data) + MybatisPlus
  - Redis(key-value database, storing token)

Developing

- **Design Pattern**
  - MVC: Model + View(GUI + Terminal) + Controller
- **Model**
  - Service
  - Model
    - Entity
    - Mapper
- **System Architecture**
  - 1. GUI -> Controller -> Service(Logic) -> Mapper -> Entity
  - 2. Terminal -> Service(logic) -> Mapper -> Entity (First developing way)
  - 2. Terminal -> Controller -> Service(logic) -> Mapper -> Entity (Second developing way)

Developing

- **Task Assignment**
  - **Xinya Gong**: GUI + API(Front-end)
  - **Jiaxin Wang**: Terminal -> Service + Service test
  - **Honglin Zhang**: Controller -> Service(logic) -> Mapper -> Entity + Service test
  - **Together**: The designing of authentication and authorization

Some React UI Framework

Best React Component UI Framework In 2023

Best React UI Framework

- *Material Kit React* – GitHub Star: 5.8K | Fork: 794 | MIT License | Latest release: 3.0.3
- *Storybook* –GitHub Star: 75.1k | Fork: 7.9k | MIT License | Latest release: 6.5.13
- *Chakra UI* –GitHub Star: 29.7k | Fork: 2.7k | MIT License | Latest release: 2.2.1
- *Ant Design for React* –GitHub Star: 82.7k | Fork: 36.7k | MIT License | Latest release: 4.24.2
- *Material UI* –GitHub Star: 82.6k | Fork: 28.5k | MIT License | Latest release: 5.10.14
- *Semantic UI React* – GitHub Star: 50.3k | Fork: 5.1k | MIT License | Latest release: 2.5.0
- *React Admin* –GitHub Star: 21k | Fork: 4.6k | MIT License | Latest release: 4.5.1
- *React Bootstrap* –GitHub Star: 21.3k | Fork: 3.4k | MIT License | Latest release: 2.6.0
- *React Toolbox* –GitHub Star: 8.7k | Fork: 1k | MIT License | Latest release: 2.0.0-beta1.0
- *React Virtualized* –GitHub Star: 24.4k | Fork: 3.1k | MIT License | Latest release: 9.22.3
- *Blueprint UI* –GitHub Star: 19.4k | Fork: 2.1k | MIT License | Latest release: 0.14.5
- *Grommet*– GitHub Star: 8.1k | Fork: 991 | Apache-2.0 License | Latest release: 2.27.0
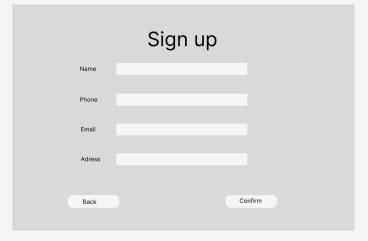- *EvergreenUI* –GitHub Star: 11.9k | Fork: 822 | MIT License | Latest release: 6.12.0

Picking the correct **React design component** for an application can be tricky. So here's the list of **best UI frameworks for react that** can help React Developers build their ReactJS app quickly and effectively.
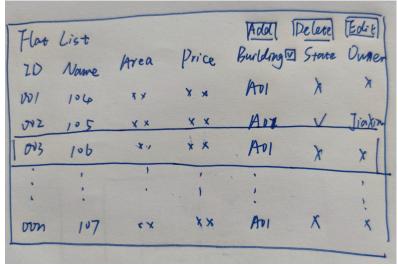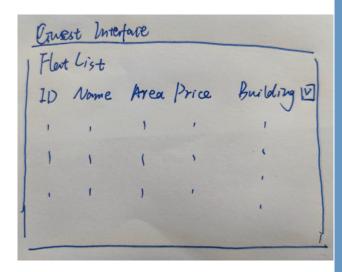
of Computer Science

UI prototype

What's happened so far

- Meeting 1
  - Brainstorm
  - Technologies

- Meeting 2
  - Finalize topic
  - Database structure
  - Task assignment

Time estimate for each task

- GUI: 7 days
- Controller: 2 days
- Terminal: 2 days
- Service + Mapper: 4 days
- Report: 3 days