

LAB4_REPORT

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Introduction

A simple and intuitive interface layout and interaction was designed to meet the needs of the mobile app for the 4th floor guided tour of the Jizi Building. The following is a description of the design and its incorporation of the principles of fluid navigation.

Design Solutions

1. **Home page (general overview):** Showing rooms and area photos of each area on the 4th floor of the Jiji Building. At the top is the location and search box, and at the bottom are buttons to quickly jump to the map, home page, and settings, with a circle under the home page button representing that it is now on the home page, and the content of the home page is each area, of which you can slide to see the rooms in each area

📍 济世楼四楼

🔍 搜索 (房间, 教师)

西廊



📍 运动区域



📍 407

东廊



📍 448



📍 452

北廊



📍 430



📍 下棋区域



2. **Map (overview):** the top and bottom remain unchanged, the content is a map in which each room and area is marked and can be clicked into for details



3. **Search screen:** Search for rooms based on the characters entered || Rooms of teachers, the content is a list of searched content, you can click on the items to view, you can also click "Cancel" to exit the search



4. **Room details card:** When users click on a room(regardless of the interface), they will jump to the details card of that room. The details card displays the room's photos, description, tags and interior pictures. The user can go back to the interface before entering the card from this card.



5. **Settings interface:** You can call up the app's settings interface and change the settings



Fluid Navigation principle description

1. **Provide context-aware navigation:** By displaying the room map of each area on the home page and the floor plan of the 4th floor on the map page, users can clearly understand the location relationship between rooms.
2. **Provide a variety of navigation methods:** users can click the room icon on the floor plan, or enter keywords through the search box, or look at the room display map of each area on the home page to quickly find the room or person they need in a variety of ways.
3. **Support users to explore and review:** The map, home page, and settings buttons are provided below so that users can go back to the home page and re-view other rooms at any time. Meanwhile, the detail page shows the list of people in the room, which is convenient for users to review.
4. **Keep the interface simple:** By integrating the map icon, home icon, settings icon, and search box in the home page, users don't need to switch between multiple pages. Within the room details card, only room-related information is displayed to avoid distractions.
5. **Provide feedback:** When the user clicks on the room icon or search result, the page will immediately jump to the corresponding room detail card. If the keyword searched by the user does not exist, an alert message will be displayed to inform the user that the search result is empty.
6. **Keeping the interface consistent:** The top and bottom navigation bars and detail room card are essentially the same and have clear guidelines in the design diagram above. The goal is to ensure that the layout, naming, and appearance of the navigation bars are consistent throughout the application or in order to provide a uniform, clear and unambiguous user experience.

With the above design solution and the principle of fluid navigation, we can provide users with a simple and efficient mobile app for guiding the 4th floor of the Jiji Building. users can easily visit each room in the system and understand the room usage and personnel.