



BOOKING HOTEL

GROUP 20

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INTRODUCTION TO ENGINEERING - AISE





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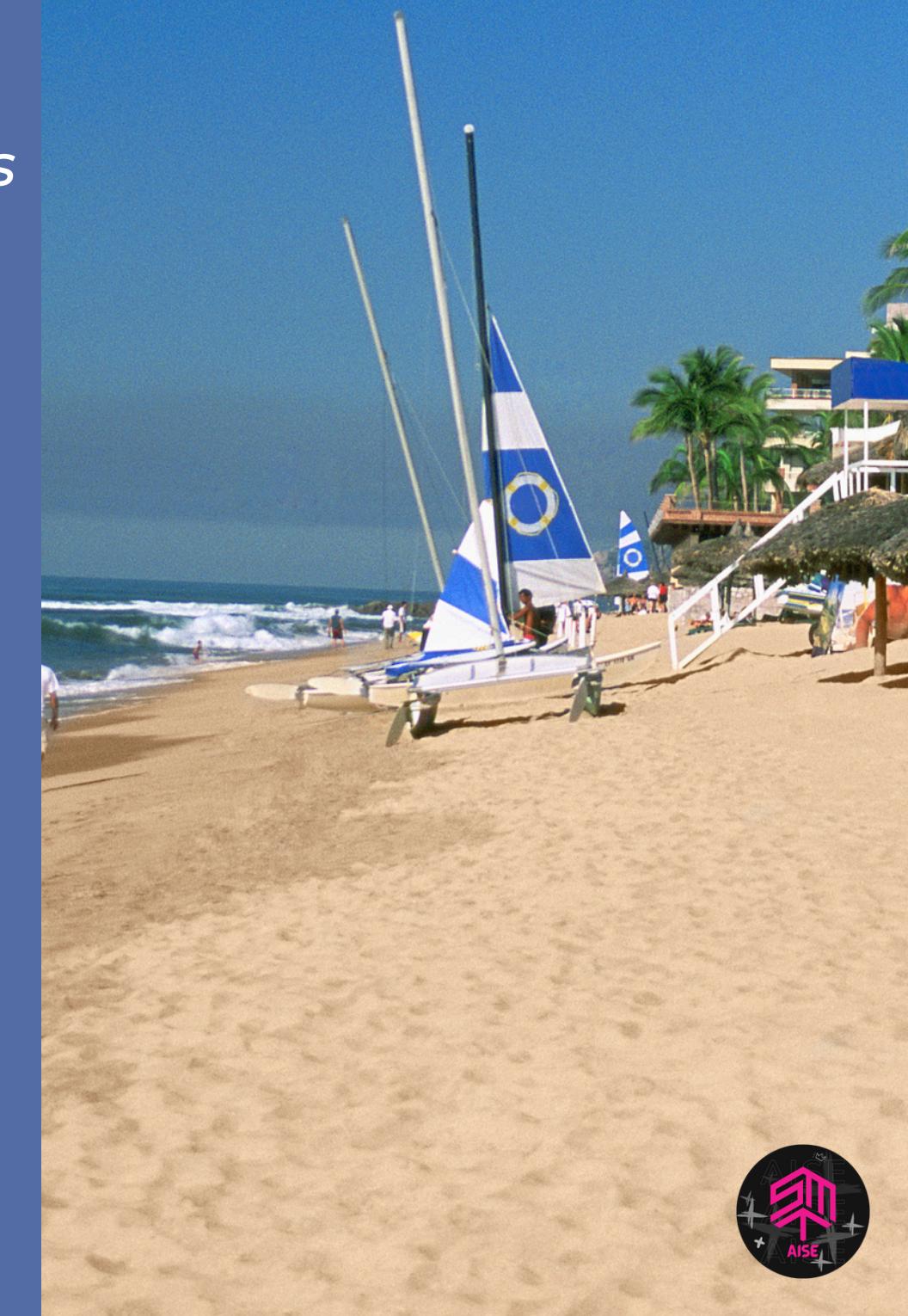
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01. PREDEMABLE

Problem statement, product position statement (from the Vision document), users/market.





PROBLEM STATEMENT

Problem	<ul style="list-style-type: none">• Search and compare hotels and homestays in tourist areas calendar or big cities to work.• Business hotel rental service, homestay
Affects	<ul style="list-style-type: none">• Travelers, business people, families, couples...• Customers who have needs of accommodation service business
Impact	<ul style="list-style-type: none">• Travelers take time to search, and it is difficult to compare between different hotels• Accommodation service providers have trouble managing make reservations and promote services
Solution	<ul style="list-style-type: none">• Compare based on price, geographic location, reviews and enhancements authenticity.• Create a reservation management service





PRODUCT POSITION STATEMENT

For	<ul style="list-style-type: none">• Travelers, business travelers.• Owners of hotels and homestays.
Who	<p>Want to:</p> <ul style="list-style-type: none">• Enjoy the trip, explore the world without worrying about finding the right place to rest.• improve the business performance of the hotel.
Product name	Booking Hotel
Our product	<ul style="list-style-type: none">• Website product in PC• Search has more options, flexible booking hours dynamic, quick payment





USER SUMMARY

Administrators	Manage users and hotels
Registered Users	See the hotels Booking, review the hotel
Hotel Owners	Manage their hotel
Guests	See the hotels





TOOLS

Trello	Manage tasks
Github	Store source code
Google Drive	Store and share documents and files
Slack	Chat, connect member and teacher
...	





TRELLO (DOING)

To Do

PA6 - Review

🕒 LH LK NV NT

+ Add a card

Doing

PA6 - Presenting

+ Add a card

PA6

PA6 Use case document

🕒 LH LK

PA6 Slide for presentation

🕒 LH LK

PA6 Test Report

NV NT

PA6 Automated testing

🕒 LH LK NV NT

+ Add a card





TRELLO (DONE)

The image shows a Trello board with a background of a rocky mountain landscape. The board is organized into six columns, each representing a project phase from PA0 (Completed) to PA5 (Completed). Each column contains several cards, each with a title, description, and a list of team members (LH, LK, NV, NT). The cards are color-coded: PA0 is yellow, PA1 is light blue, PA2 is light green, PA3 is pink, PA4 is light blue, and PA5 is light green. Each card also has a 'Due' date and a 'Last updated' timestamp.

Column	Card 1	Card 2	Card 3	Card 4	Card 5	Card 6
PA0 (Completed)	PA0: Team Member	PA0: Key feature	PA0: Review			
PA1 (Completed)	PA1: Software development plan	PA1: Vision Document				
PA2 (Completed)	PA2: Revised project plan	PA2: Detailed vision document	PA2: Use-case mode	PA2: Use-case specification		
PA3 (Completed)	PA3: Define software architecture	PA3: Class diagrams	PA3: Use-case specification			
PA4 (Completed)	PA4: Revise SAD	PA4: UI prototype				
PA5 (Completed)	PA5: Prepare for planning meeting	PA5: rup_tstpln	PA5: Implementation	PA5: Design document, Test plan	PA5: Design test case for Authentication	PA5: Design test case for Hotel rooms management
		+ Add a card		+ Add a card		+ Add a card



02. PROJECT MANAGEMENT

Team structure and responsibilities of team members.





TEAM STRUCTURE

Project manager:
Nguyễn Long Vũ

Developer:
Lê Công Hữu

Developer:
Lê Tấn Kiệt

Business Analyst:
Ngô Thanh Lực

Tester:
Nguyễn Thị Ánh Tuyết





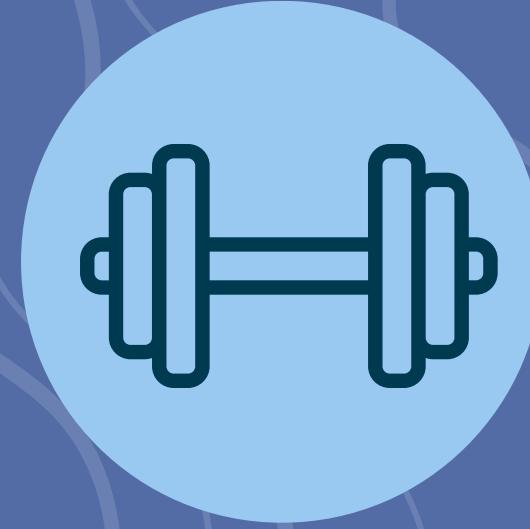
RESPONSIBILITIES

Name	Responsibilities
Nguyễn Long Vũ	<ul style="list-style-type: none">• Set deadline for each tasks• Manage the overall project discipline• Implement software program
Lê Công Hữu	<ul style="list-style-type: none">• Implement software program• Write documents
Lê Tấn Kiệt	<ul style="list-style-type: none">• Implement software program• Write documents
Ngô Thanh Lực	<ul style="list-style-type: none">• Implement software program• Capture the specification in Use-case
Nguyễn Thị Ánh Tuyết	<ul style="list-style-type: none">• Design UI for our software• Manage testing operation



03. SOFTWARE REQUIREMENTS

Use-case model and Functional – NonFunctional Requirements

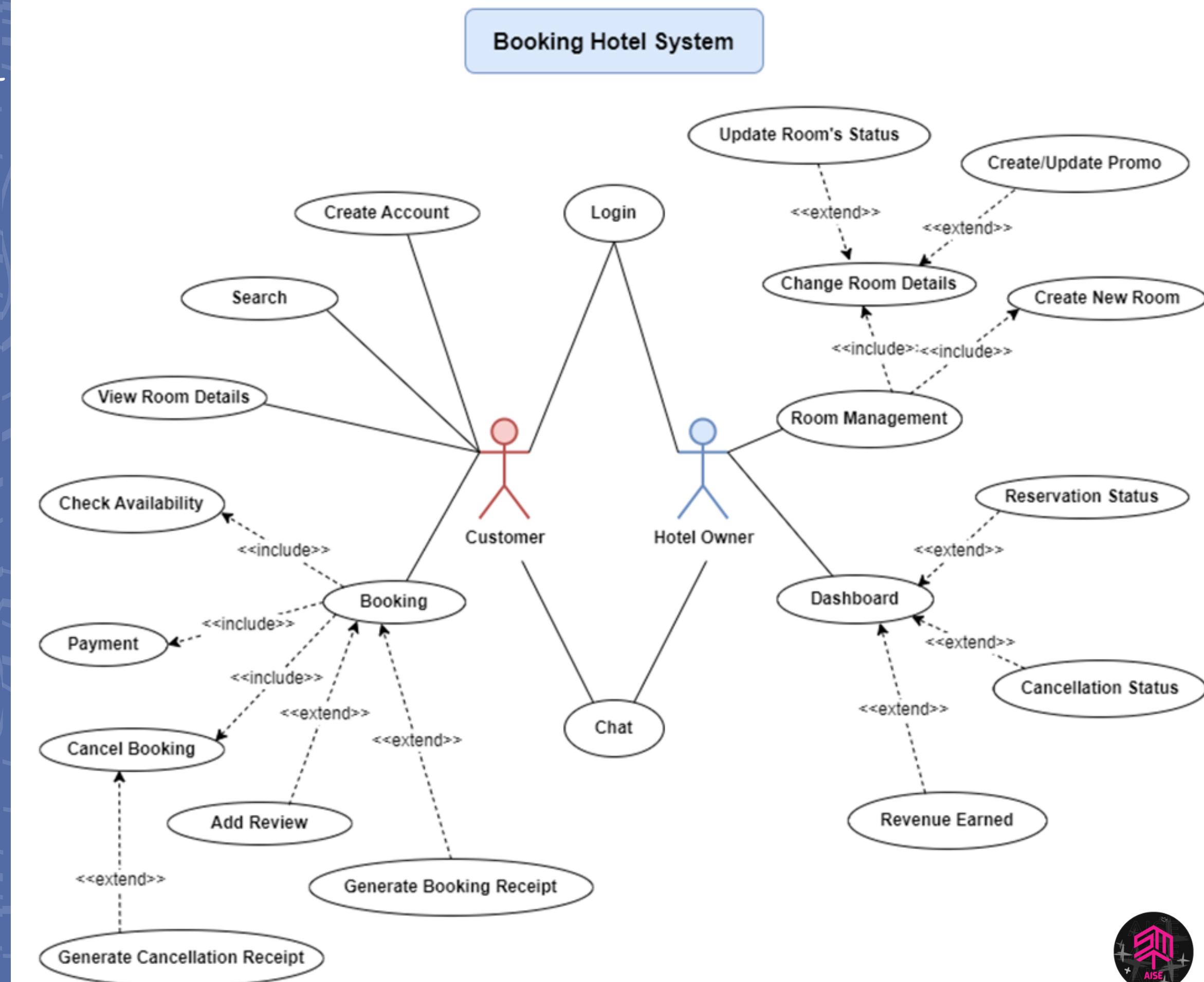


USE CASE MODEL

Use-case model of Booking Hotel website

Model elements:

- Actor
 - Customer
 - Hotel Owner
 - The features have been completed
 - The features will be completed in the future





FUNCTIONAL REQUIREMENTS

List of the functionalities that my team have already achieved

Customer side:

- Log in
- Sign up
- Edit profile
- Search
- View room details
- Booking
- Promotion
- Payments
- Add review

Hotel owner side:

- Log in
- Sign up
- Edit profile
- Dashboard
- Create new room
- Edit room
- Create promotion





NON-FUNCTIONAL REQUIREMENTS

Specifies criteria that can be used to judge the operation of Booking hotel's system

- Compatibility:** The system must be compatible with many different versions of operating systems and browsers
- Usability:** The web shall be easy-to-use and shall be appropriate for all people.
- Availability:** The web must be available all the time (24/7) except when there are maintenance activities.
- Capacity:** The Web must have a large capacity to hold user data, web data, image, ...
- Security:** Payment processing gateways must be PCI DSS compliant.





04. ANALYSIS AND DESIGN

Architecture and technologies used.

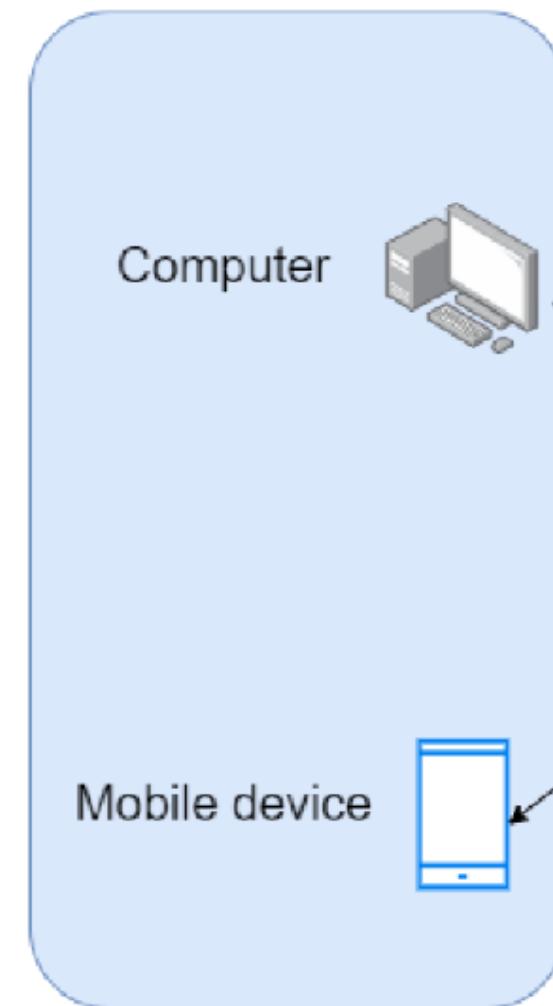




SOFTWARE ARCHITECTURE

Front-end

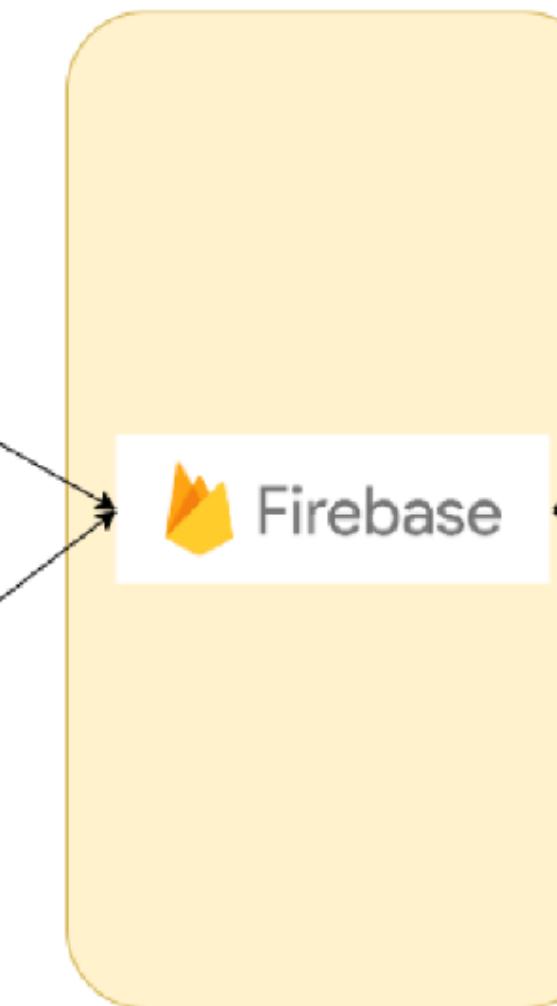
Application and Logic Tier



JavaScript
(ReactJS framework)

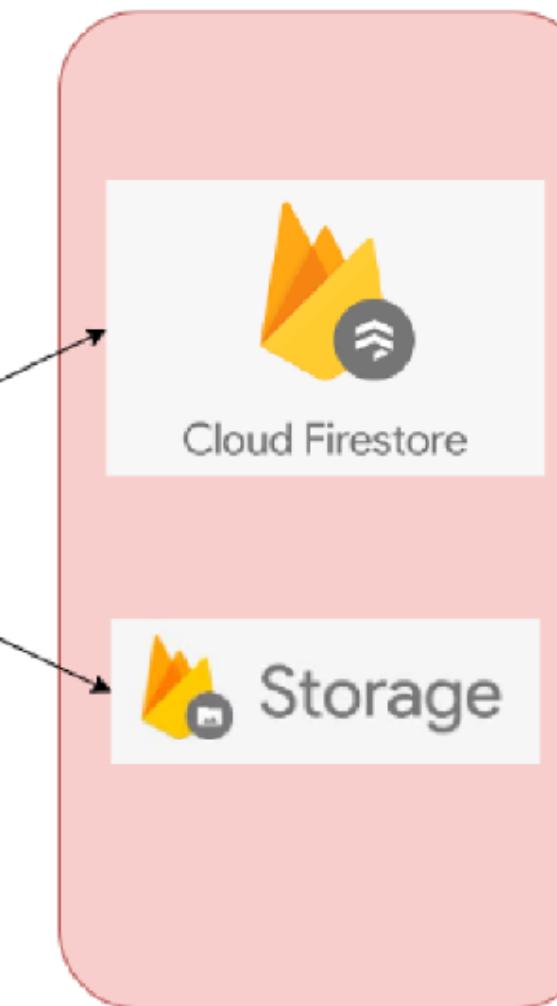
Back-end

Services Tier



JavaScript with
Firebase APIs

Data Tier



JavaScript with
Firebase APIs





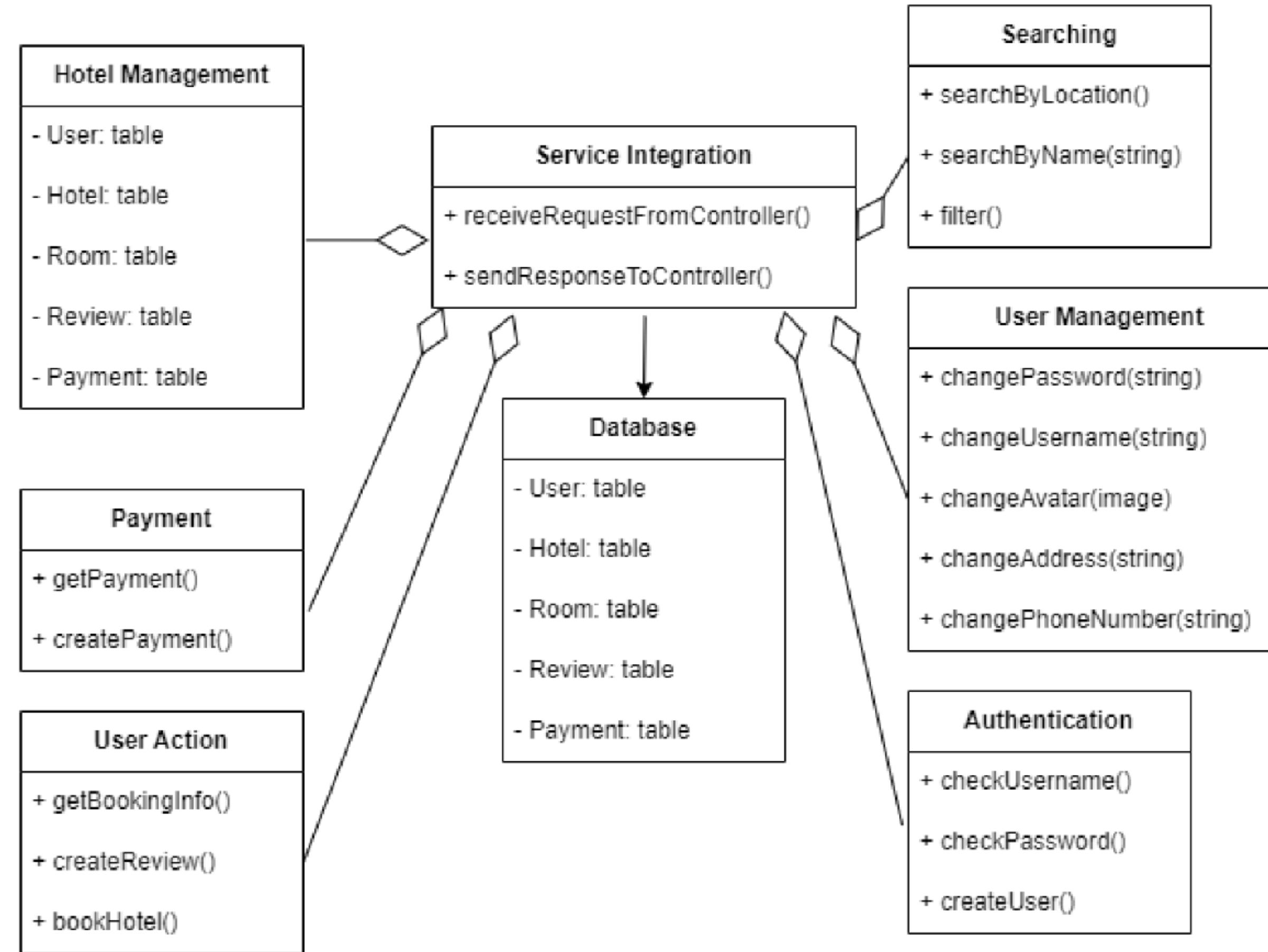
COMPONENTS

- Searching
- User Management
- Payment
- Authentication
- User Action
- Hotel Management
- Database
- Service Integration





SERVICE INTERGRATION COMPONENT





IMPLEMENTATION VIEW

+ Assets:

- Raw files we need, like images, text, json,...

+ Components:

- Common components can re-usable.

+ Pages:

- Pages component, each page component contain multiple sub components.

+ Routers:

- Routing files.

+ Services:

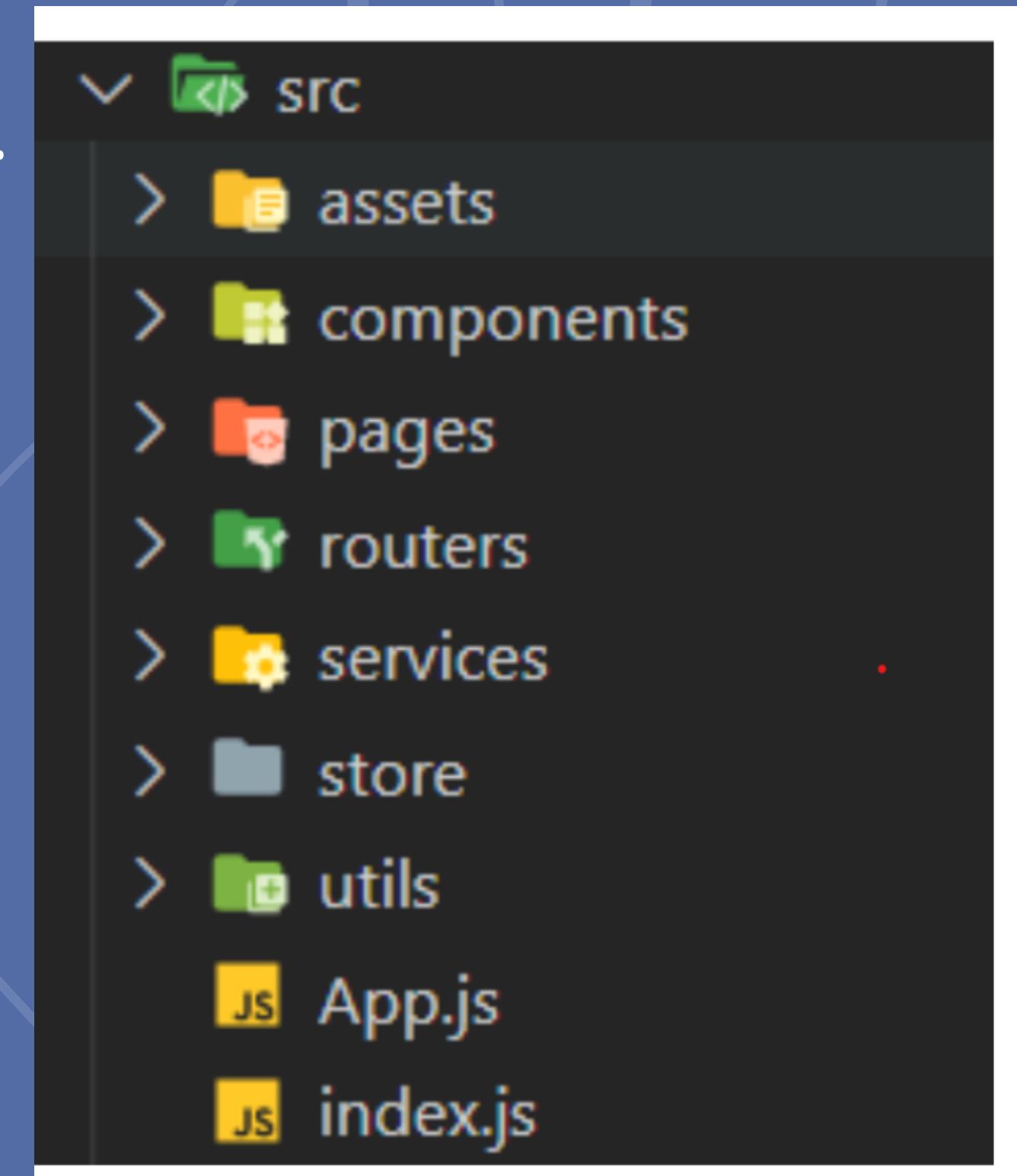
- Config and service files.

+ Store:

- Config global state.

+ Utils:

- Utilities files.





05. SOFTWARE TESTING

Environments Need, Target test items and Test report





ENVIRONMENTS NEED



HARDWARE
REQUIREMENTS



SOFTWARE IN TEST
ENVIRONMENTS



PRODUCTIVITY AND
SUPPORT TOOLS





REQUIREMENTS

Hardware:

1. OS: Windows 10 or Windows 11 (Recommended).
2. Ram 4GB or higher.

Software in Test Environments:

- **Firefox**
- **Google Chrome**
- **MS Edge**

Productivity and Support Tools:

- **Defect Tracking: MS Excel**
- **Prepare test plan: MS Word**
- **Automation Testing: Katalon**





TARGET TEST ITEMS

Environments Need, Target test items and Test report

Function 01: Authentication

Function 02: Hotel rooms management

Function 03: Customer booking management



Function 04: Valid form for search

Function 05: System and rendering

Function 06: User profile





TEST REPORT

Test cases and Defects

+ Test cases:

1. Number of functions: 6
2. Number of test cases: 27
3. Number of passed test cases: 27
4. Number of failed test cases: 0

+ Defect:

1. Number of closed defect: 7
2. Number of open defect: 5





DEMO





THANK YOU

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