



CAPSTONE PROJECT REPORT

Report 3 – Software Requirement Specification

– Hanoi, October 2022 –

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I. Record of Changes

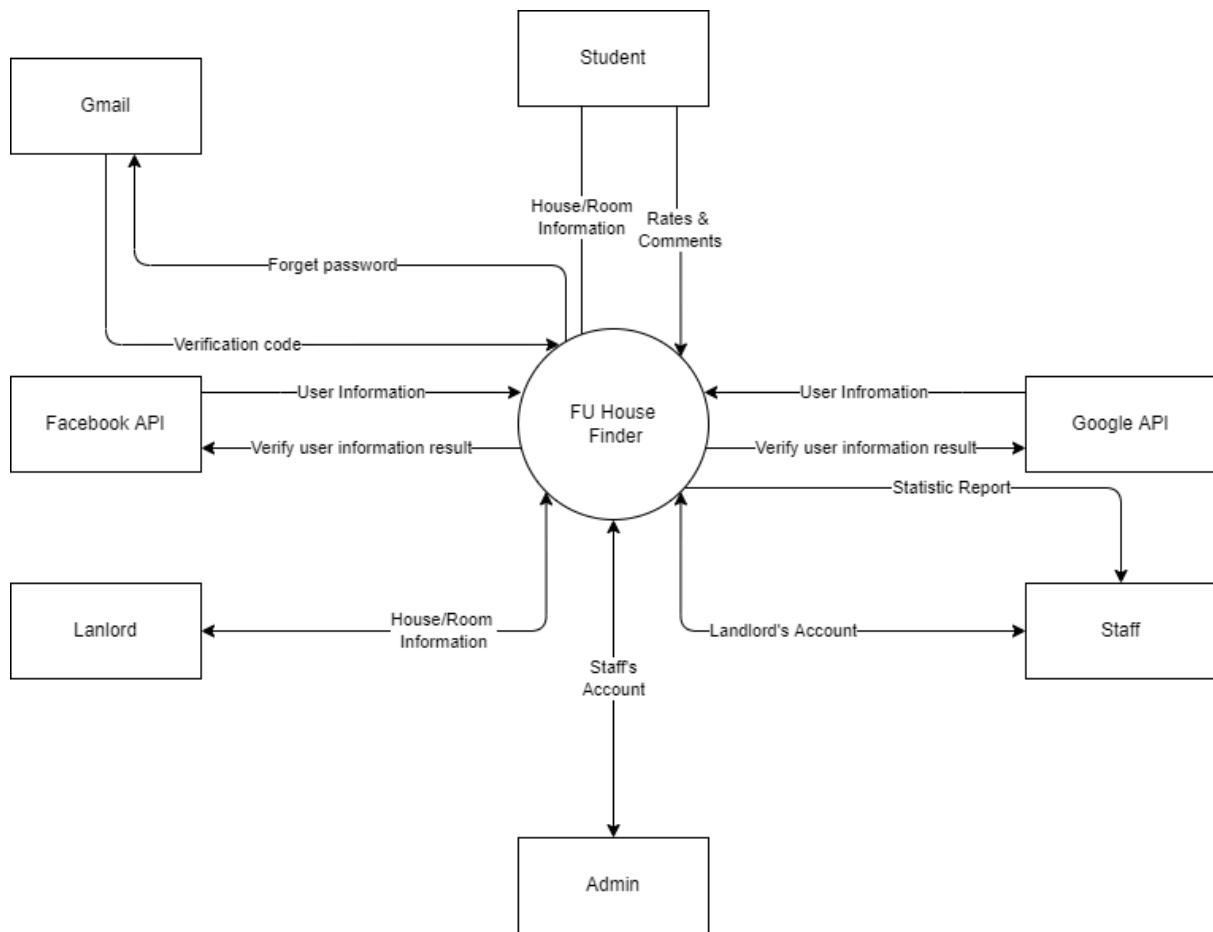
Date	A* M, D	In charge	Change Description
05/10/2022	A	GiangNT	Screen Flows
06/10/2022	A	KienNT	Screen Description; Screen Authorization
07/10/2022	A	HuyenBN	Use Case Diagram
07/10/2022	A	KienNT	Use Case Description
07/10/2022	M	GiangNT	Use Case Description
08/10/2022	A	HuyenBN	Entity Relationship Diagram
08/10/2022	A	KienNT	Entity Descriptions
08/10/2022	M	GiangNT	Entity Descriptions
09/10/2022	A	HuyenBN	Functional Requirements: HomePage, Login/Signup, House Detail, Room Detail, Report House
09/10/2022	A	GiangNT	Product Overview; Context Diagram
09/10/2022	A	GiangNT	User Requirements - Actors
09/10/2022	A	GiangNT	Non-screen functions
10/10/2022	A	KientNT	Functional Requirements: [Landlord] Register, Dashboard, Upload House Info, House Detail, Update House, Add House, Delete House, Update Room, Add Room, Delete Room
10/10/2022	M	GiangNT	Functional Requirements: [Landlord] Register, Dashboard, Upload House Info, House Detail, Update House, Add House, Delete House, Update Room, Add Room, Delete Room
10/10/2022	A	GiangNT	External Interfaces
10/10/2022	A	HuyenBN	Quality Attributes
10/10/2022	A	GiangNT	Business Rules
19/11/2022	A	KienNT	Functional Requirements: [Landlord] Screens

*A - Added M - Modified D - Deleted

II. Software Requirement Specification

1. Product Overview

The FU House Finder System is a new software system that helps the students and the landlords find each other through the Internet. The context diagram below illustrates the external entities and system interfaces for release 1.0. The system is expected to evolve over several releases, ultimately having the ability to recommend suitable houses for students based on view history and also earn money for the host.



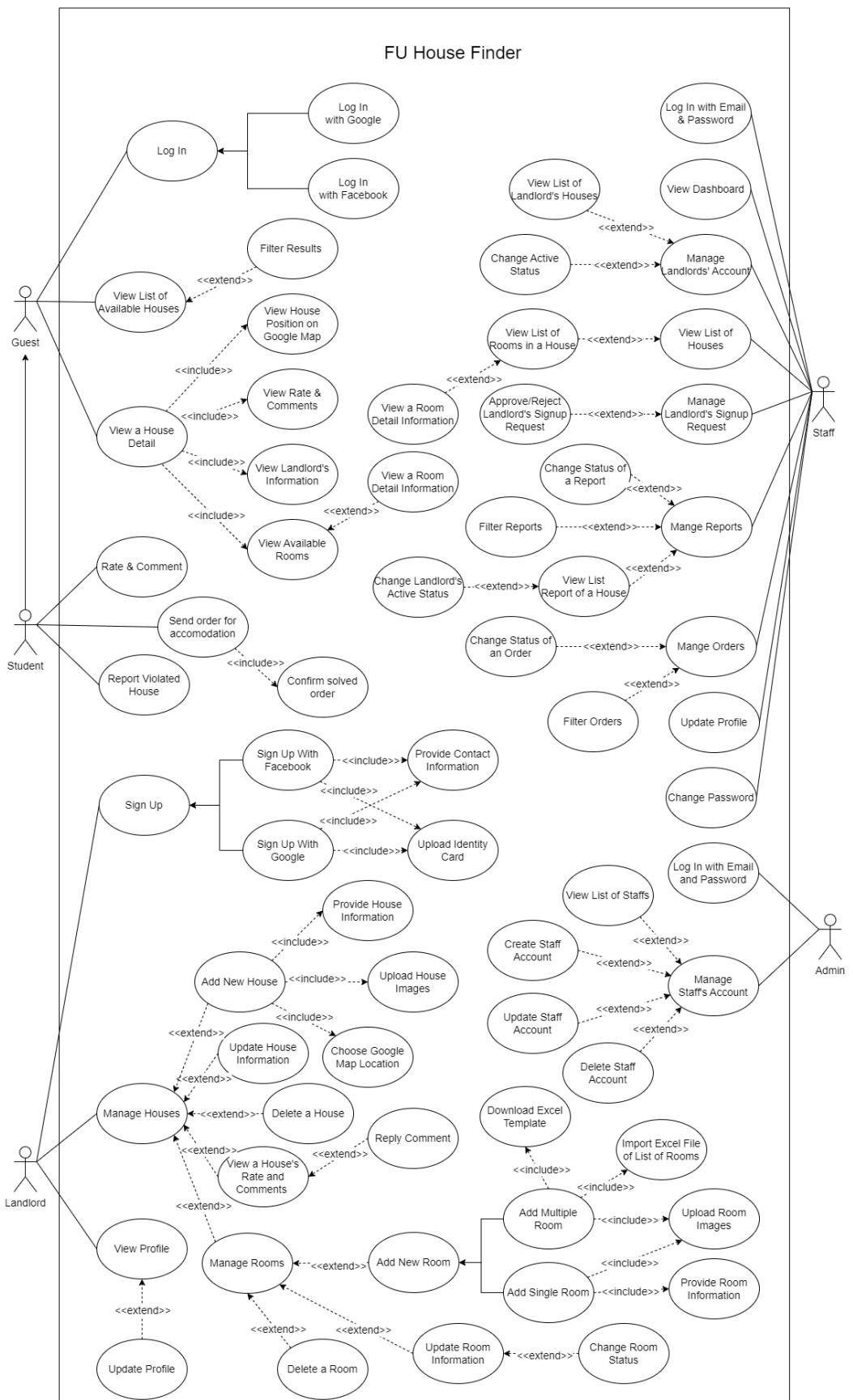
2. User Requirements

2.1 Actors

#	Actor	Description
1	Administrator	Administrator of the system; Manage accounts of Staffs
2	Staff	Staffs of the offices of the University; Manage accounts of Landlords and view statistics reports
3	Landlord	People having houses for rent; Manage their houses and rooms and their information
4	Student	People finding for houses to rent; Can search for available houses in the system

2.2 Use Cases

2.2.1 *Diagram(s)*



2.2.2 Descriptions

ID	Use Case	Actors	Use Case Description
01	Log In	Guest	Guest logs into the system
02	View List Of Available Houses	Guest	Guest views list of houses
03	Filter Available Houses	Guest	Guest searches for houses by name or filters it by category or by map
04	View a House Detail	Guest	Guest views the detail information of house
05	View House Position on Google Map	Guest	Guest views specific location of a house on Google Map
06	View Rate and Comments	Guest	Guest views other user rate and reviews of a house
07	View Landlord's Information	Guest	Guest views landlord's information of a house
08	View Available Rooms	Guest	Guest views list of available rooms in a house
09	View a Room Detail Information	Guest	Guest views a room's detail information
10	Rate and Comment	Student	Student rates and comments the house
11	Send Order for Accommodation	Student	Student fills out his contact information and desired demand to Staff
12	Report Violated House	Student	Student reports the violated house
13	Log In with Email and Password	Admin	Admin logs into the system
14	Manage Staff's Account	Admin	Admin views the list of all staff accounts and can be change active status of the staff
15	Change Password	Admin	Admin changes login password
16	Log In with Email and Password	Staff	Staff logs into the system
17	View Dashboard	Staff	Staff views list of available houses and list of landlord's request. Staff can be search for houses & statistics by name or filter it by category at the same time can also accept or decline landlord's request
18	Manage Landlords' Account	Staff	Staff views list of landlords' accounts
19	View List of Landlord's Houses	Staff	Staff views list of all houses of a landlord
20	Change Active Status	Staff	Staff changes active status of a landlord then houses of this landlord does not appear for students
21	View List of Houses	Staff	Staff views list of all houses in the system
22	View List Rooms of a House	Staff	Staff views list of all rooms of a house
23	View a Room Detail Information	Staff	Staff views detail information of a room

24	Manage Landlords' Signup Request	Staff	Staff views a list of all landlords' signup requests
25	Approve/Reject Landlord's Signup Request	Staff	Staff approves or rejects a landlord's signup request
26	Manage Reports	Staff	Staff views a list of reports send by students
27	Change Status of a Report	Staff	Staff changes resolution status of a report
28	Filter Reports	Staff	Staff filters reports by reported date, resolution status
29	View List of Reported House	Staff	Staff views a list of reported houses
30	View List Report of a House	Staff	Staff views a list of reports send by students of a house
31	Manage Orders	Staff	Staff views list of students' accommodation orders
32	Change Status of an Order		Staff changes the resolution status of an order
33	Filter Orders	Staff	Staff filters orders by ordered date, resolution status, etc
34	Update Profile	Staff	Staff views and updates the profile
35	Change Password	Staff	Staff changes password to log in the system
36	Sign Up	Landlord	Landlord registers for an account
37	Provide Contact Information	Landlord	Landlord provides his contact information for register account
38	Upload Identity Card	Landlord	Landlord uploads his identity card imgae for register account
39	Log In	Landlord	Landlord logs into the system
40	Manage Houses	Landlord	Landlord views list of rooms, detail information of room at the same time can also add new, update, delete, change status the room
41	Add New House	Landlord	Landlord provides information of a new house to add it to the system
42	Provide House Information	Landlord	Landlord imports information of the house by excel file
43	Upload House Images	Landlord	Landlord uploads images of a house
44	Choose Google Map Location	Landlord	Landlord chooses a location on Google Map for a house
45	Update House Information	Landlord	Landlord updates detail information of a house
46	Delete a House	Landlord	Landlord deletes a house
47	View House's Rate and Comments	Landlord	Landlord views students' rate and comments on one of their house
48	Reply Comment	Landlord	Landlord replies students' comments
49	Add New Room	Landlord	Landlord adds new room to a house
50	Add Single Room	Landlord	Landlord fills out information in a form to add a new room to a house

51	Add Multiple Room	Landlord	Landlord uploads templated excel file to upload a list of rooms to a house
52	Download Excel Template	Landlord	Landlord downloads an excel template to fill out information of rooms
53	Import Excel File of List Rooms	Landlord	Landlord imports an excel file to add a list of rooms to a house
54	Upload Room Images	Landlord	Landlord uploads a folder of images of rooms named as convention
55	Provide Room Information	Landlord	Landlord provides detail information of a room
56	Update Room Information	Landlord	Landlord updates detail information of a room
57	Change Room Status	Landlord	Landlord changes the availability status of a room
58	Delete a Room	Landlord	Landlord deletes a room
59	View Profile	Landlord	Landlord views the profile
60	Update Profile	Landlord	Landlord updates the profile

3. Functional Requirements

3.1 System Functional Overview

3.1.1 Screens Flow

Student

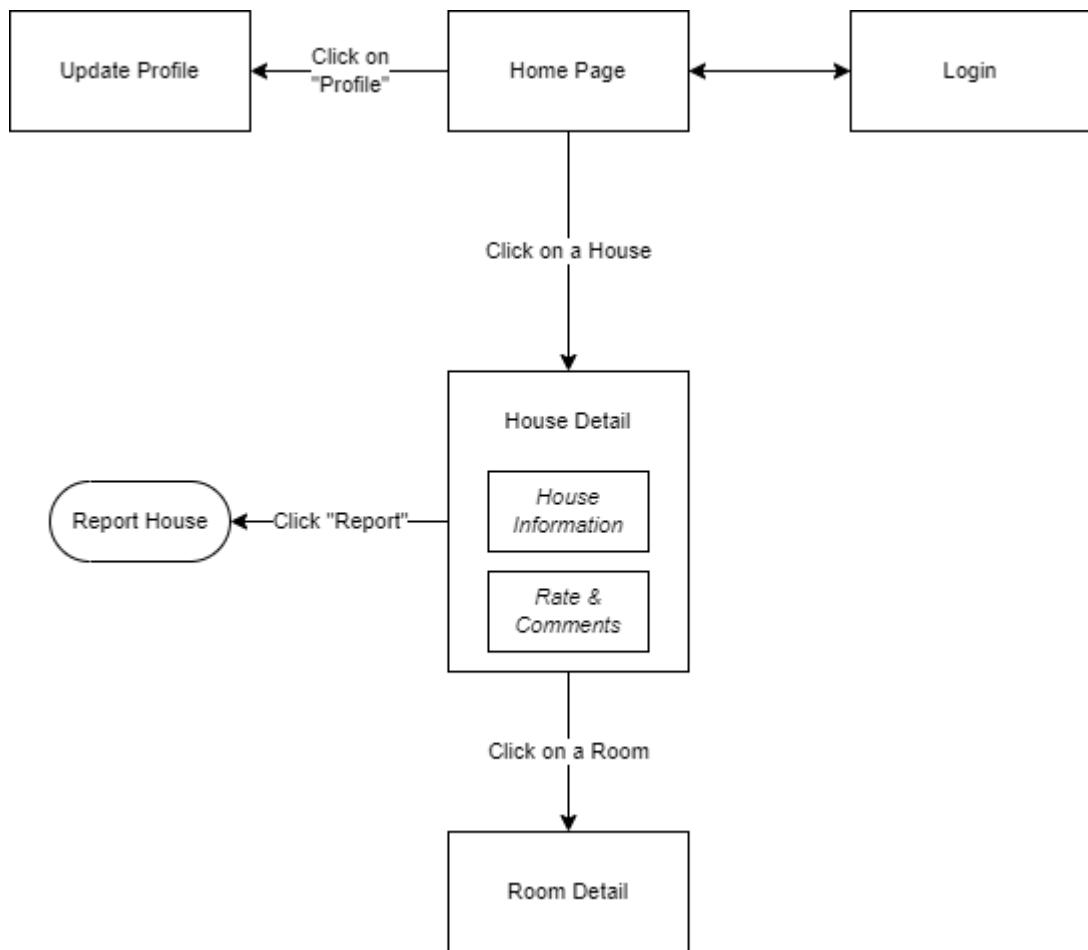


Figure 1-1: Screen Flow for Student

Landlord

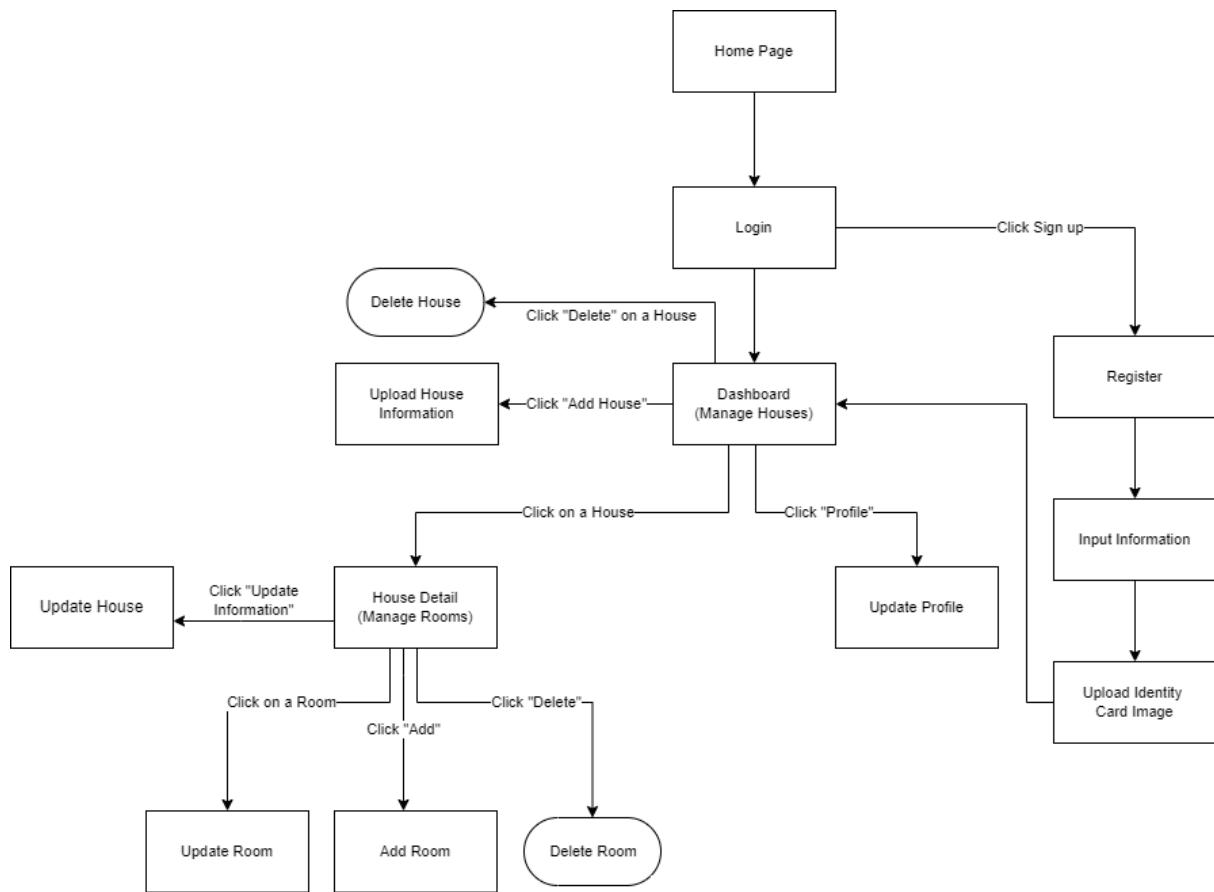


Figure 1-2: Screen Flow for Landlord

Staff

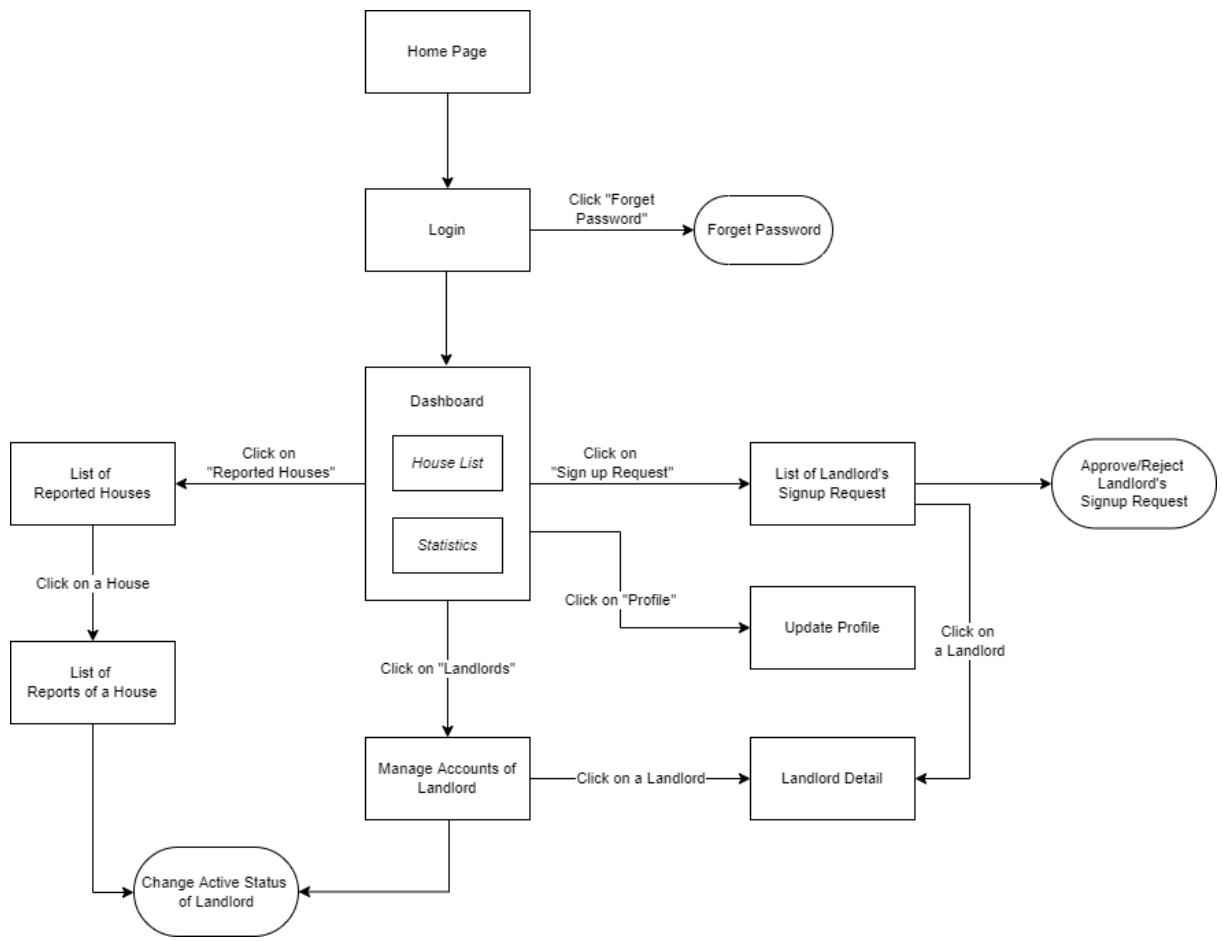


Figure 1-3: Screen Flow for Staff

Admin

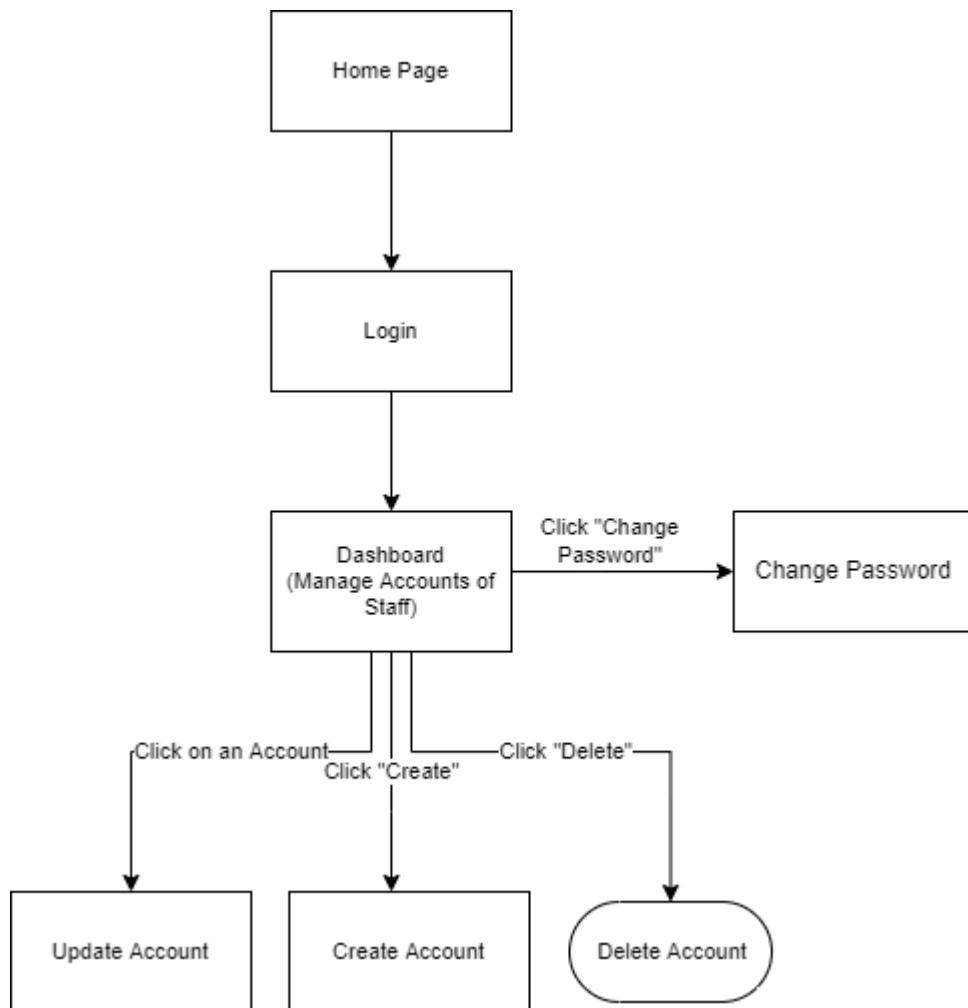


Figure 1-3: Screen Flow for Admin

3.1.2 Screen Descriptions

#	Feature	Screen	Description
1	View List Houses	Home Page	View list of houses
2	Search & Filter House	Home Page	Search for houses by name or filter it by category
3	Interact with map	Home Page	Use the map to find the location of the house
4	View House Detail	House Details	Display detail information of house
5	View Room Detail	Room Details	Display detail information of room
6	Report House	Report House	User reports the house
7	Login	User Login	User logs into the system

8	Register	User Register	User registers for an account
9	Register	Register [Landlord]	Landlord registers for an account
10	Verify Information Of Landlord	Input Information [Landlord]	Get information of landlord
11	Verify Identity Card Of Landlord	Upload Identity Card Image [Landlord]	Get identity card of landlord
12	View List Houses	Dashboard [Landlord]	Landlord views list of houses
13	Search & Filter House	Dashboard [Landlord]	Landlord searché for houses by name or filters it by category
14	Upload House Information	Upload House Information [Landlord]	Landlord imports information of the house
15	Manage Rooms	House Detail [Landlord]	Display detail information of house
16	Search & Filter Room	House Detail [Landlord]	Landlord searché for rooms by name or filters it by category
17	Update House	Update House [Landlord]	Landlord updates the house
18	Delete House	Delete House [Landlord]	Landlord deletes the house
19	Update Room	Update Room [Landlord]	Landlord updates the room
20	Add Room	Add Room [Landlord]	Landlord adds new the room
21	Delete Room	Delete Room [Landlord]	Landlord deletes the room
22	Update Proflie	Update Proflie [Landlord]	Landlord updates the proflie
23	View List Houses & Statistics	Dashboard [Staff]	Staff view list of available houses
24	Search & Filter House & Statistic	Dashboard [Staff]	Staff searches for houses & statistics by name or filter it by category
25	Accept Or Decline Landlord's Signup Request	List Of Landlord's Signup Request [Staff]	Staff views list of landlord's request and accepts or decline
26	Update Proflie	Update Proflie [Staff]	Staff updates the proflie

27	View List Accounts Of Landlords	Landlords List [Staff]	Staff views list of landlords
28	View Landlord Detail	Landlord Detail [Staff]	Staff views detail information of landlord
29	View List Of Reported Houses	List Of Reported Houses [Staff]	Staff views list of reported houses
30	View List Accounts Of Staffs	Dashboard [Admin]	Admin views the list of all staff accounts
31	Search & Filter Staff	Dashboard [Admin]	Admin searches for staffs by name or filter it by category
32	Change Password	Change Password [Admin]	Admin changes login password
33	Create Staff Account	Create Account [Admin]	Admin creates account for staff
34	Update Staff Account	Update Account [Admin]	Admin updates account of staff
35	Delete Staff Account	Delete Account [Admin]	Admin deletes account of staff

3.1.3 Screen Authorization

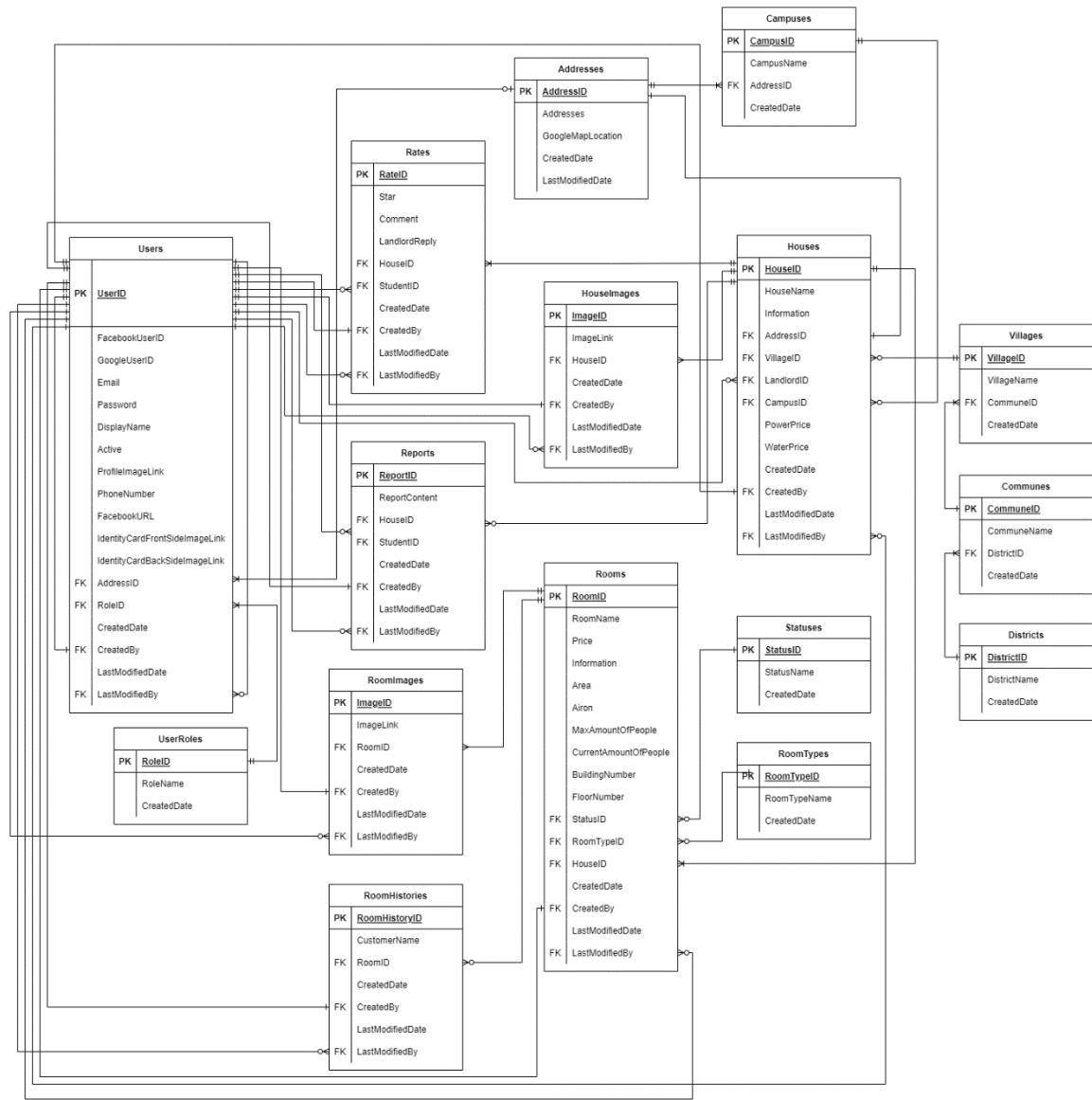
Screen	Guest	Student	Landlord	Staff	Admin
Home Page	X	X	X	X	X
House Details	X	X	X	X	X
Room Details	X	X	X	X	X
Report House		X			
User Login		X	X	X	X
User Register	X				
Register [Landlord]			X		
Input Information [Landlord]			X		
Upload Identity Card Image [Landlord]			X		
Dashboard [Landlord]			X		
Upload House Information [Landlord]			X		
House Detail [Landlord]			X		
Update House [Landlord]			X		
Delete House [Landlord]			X		
Update Room [Landlord]			X		
Add Room [Landlord]			X		
Delete Room [Landlord]			X		

Update Profile [Landlord]			X		
Dashboard [Staff]				X	
List Of Landlord's Signup Request [Staff]				X	
Update Profile [Staff]				X	
Landlords List [Staff]				X	
Landlord Detail [Staff]				X	
List Of Reported Houses [Staff]				X	
Dashboard [Admin]					X
Change Password [Admin]					X
Create Account [Admin]					X
Update Account [Admin]					X
Delete Account [Admin]					X

3.1.4 Non-Screen Functions

#	Feature	System Function	Description
1	Login with Facebook	Login	User logs in the system with his Facebook account
2	Login with Google	Login	User logs in the system with his Google account
3	Import File Excel	Sign up & Manage Houses	Convert data from Excel file into house & room information
4	Forget Password	Login	System send verification code to user Email to reset password

3.1.5 Entity Relationship Diagram



Entities Description

#	Entity	Description
1	Addresses	Used to store the address of User, House & Campus
2	Campuses	Used to store Campuses of FPT university
3	UserRoles	Used to store the role of each User
4	Users	Used to store Users in the system
5	Districts	Used to store Districts around the school
6	Communes	Used to store Communes around the school
7	Villages	Used to store Villages around the school
8	Houses	Used to store Houses
9	Statuses	Used to store Statuses of Room
10	RoomTypes	Used to store Types of Room
11	Rooms	Used to store Rooms

12	Rates	Used to store Rating & Comments of User
13	ImagesOfHouse	Used to store Images of House
14	ImagesOfRoom	Used to store Images of Room
15	Reports	Used to store student's Reports for House
16	RoomHistories	Used to store Histories of people staying in the House, for the landlord to voluntarily add if there is a need to manage & monitor

3.2 Home page

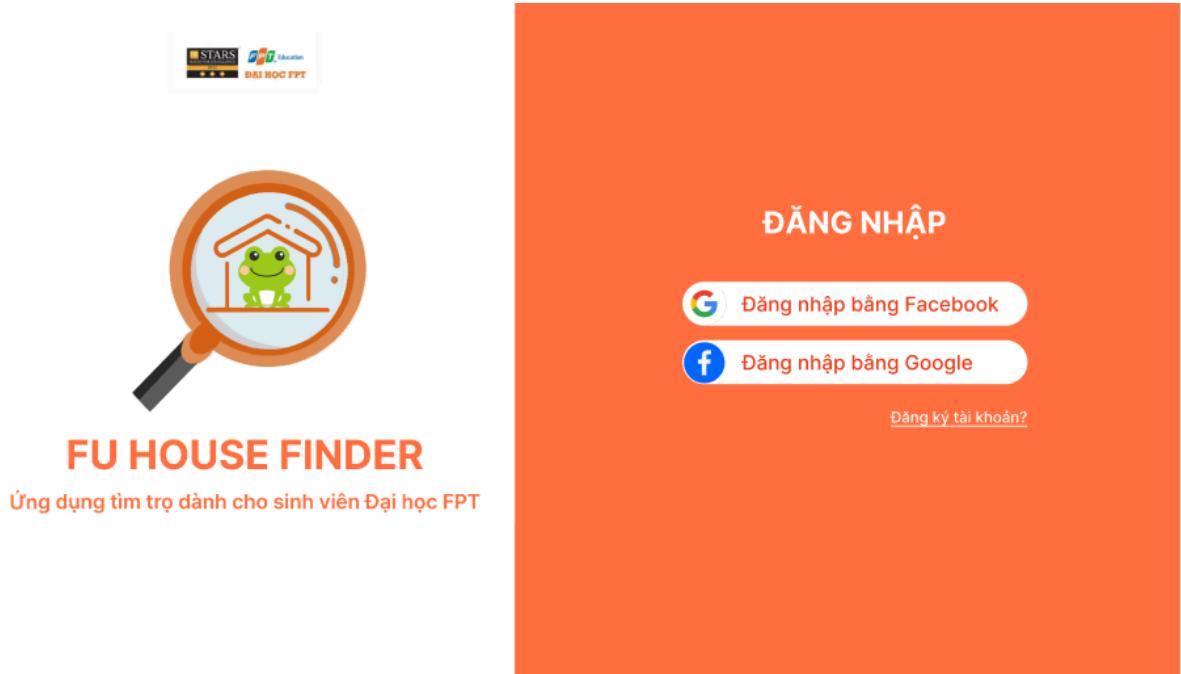
- Function trigger: User accesses the website
- Function description:
 - Role: Guest, Student
 - Purpose: User could view list of available houses and filter the results
- Screen layout:

The screenshot shows the homepage of the FU House Finder website. At the top, there is a navigation bar with the title "TÌM TRỌ SINH VIÊN FPT" and a "Đăng nhập" button. Below the navigation bar, there is a search bar with the placeholder "Nhập tên trọ, từ khóa tìm kiếm". On the left, there is a sidebar titled "LỌC PHÒNG TRỌ" with filters for location (Huyện, Xã, Thị trấn), price range (0 - 20.000.000đ), and distance (0 - 10km). There is also a section for "Tiện ích khác" (Facilities) with checkboxes for WiFi, Điều hòa, Nóng lạnh, Khóa vân tay, and Camera an ninh. A "Lọc" (Filter) button is located at the bottom of the sidebar. The main content area displays a grid of three dormitory listings: "Hòa Lạc Apartment", "Hòa Lạc Link", and "Hòa Lạc Apartment". Each listing includes a thumbnail image, the name, price range (2.000.000 - 5.000.000đ), location (Thôn 8, Thạch Hòa, Thạch Thất), distance (3.5km), and contact number (0896899996). A "Sắp xếp theo" (Sort by) dropdown menu is located at the top right of the main content area. The footer of the page features the FPT Education logo and the text "FPT EDUCATION GLOBAL".

3.3 Login/Signup

- Function trigger: User clicks “Đăng nhập” from Home Page
- Function description:
 - Role: Guest
 - Purpose: Guest could sign up for an account or log in to access more functions

- Screen layout:



3.4 House Detail

- Function trigger: User clicks on one house from Home page
- Function description:
 - Role: Guest, student
 - Purpose: View a house detail information (landlord's information, available rooms, etc.)

- Screen layout:

The screenshot shows a web page with an orange header. On the left is a logo for 'FU House Finder' featuring a magnifying glass over a house icon. The main title 'TÌM TRỌ SINH VIÊN FPT' is centered above a navigation bar with links for 'Trang chủ', 'Cơ sở', 'Liên hệ', and 'Giới thiệu'. A red 'Đăng nhập' button is on the right. Below the header is a large image of a modern apartment interior with a double bed, a balcony, and a kitchen area. To the right of the image is a sidebar titled 'Thông tin chủ trọ' containing a placeholder profile picture and contact details: Ông: Nguyễn Văn A, Facebook: (empty), SĐT: (empty), Địa chỉ: (empty). Below the image, the apartment's name 'Hòa Lạc Apartment' is displayed, along with its address (Số nhà 123, thôn 3, Tân Xã, Thạch Thất, Hà Nội), electricity price (3.500/số), water price (2.000/khối), and additional service fee (150.000/phòng). A table titled 'Danh sách phòng trống' lists three available rooms: Room 201 (2.300.000 VND, Khép kín, 3 people), Room 203 (2.300.000 VND, Khép kín, 3 people), and Room 301 (2.500.000 VND, Chung cư mini, 3 people).

Phòng	Giá phòng	Loại phòng	Đang ở	Ghi chú
201	2.300.000	Khép kín	3	
203	2.300.000	Khép kín	3	
301	2.500.000	Chung cư mini	3	

3.5 Room Detail

- Function trigger: User clicks on one Room from a House Detail
- Function description:
 - Role: Guest, student
 - Purpose: View a room detail information (images, price, etc.)

- Screen layout:

The screenshot shows a room with a double bed, a desk with a computer, and a large window overlooking a snowy mountain range. The interface includes a header with the app name "FU HOUSE FINDER" and a user icon. A sidebar on the left contains a photo and contact information for the landlord. The right side has sections for "Thông tin mô tả" (Description) and "Người dùng đánh giá" (User reviews), along with a comment form and a rating section.

Thông tin mô tả

Phòng trọ khép kín mới xây, thiết bị bếp, nhà vệ sinh, nóng lạnh mới 100% chưa qua sử dụng, lối đi riêng, khu vực dân trí cao, an ninh tốt vì là ngõ cụt, có sân và cổng chung ra vào tự đóng mở, tiện điện nước thanh toán hàng tháng theo đồng hồ

Thông tin chủ trọ

Tên: Lê Thanh Tâm
Email: tamle@gmail.com
Số điện thoại: 0987654321
Facebook: facebook.com/tamle12

Bình luận

Nguyễn Văn A: Đẹp, gần trường (5 sao)
• Chủ trọ trả lời: Cảm ơn bạn nhiều
Nguyễn Văn B: Quá xuất sắc (4 sao)

Viết bình luận **Đánh giá** **Đăng**

FPT Education

3.6 Report House

- Function trigger: Student clicks “Báo cáo” in one House Detail
- Function description:
 - Role: Student
 - Purpose: Student uses to report an unusual house
- Screen layout:

The screenshot shows a reporting dialog box titled "Báo cáo nhà trọ" (Report house). It contains a text input field labeled "Lý do:" (Reason) and a red "Báo cáo" (Report) button. The background shows the same room detail screen as the previous image.

Báo cáo nhà trọ

Lý do:

Báo cáo

FPT Education

3.7 Register [Landlord]

- Function trigger: User click the landlord's register button
 - Function description:
 - Role: Guest
 - Purpose: Landlord register for an account
 - Screen layout:



CHỦ TRỌ ĐĂNG KÝ TÀI KHOẢN



Số điện thoại

[Link Facebook](#)



CHỦ TRỌ ĐĂNG KÝ TÀI KHOẢN



Số điện thoại 012345678

Link Facebook <https://www.facebook.com/profile.php?id=10000>





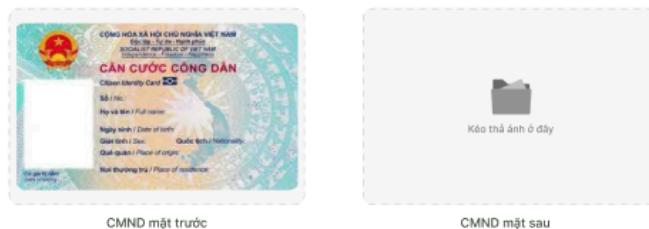
CHỦ TRỌ ĐĂNG KÝ TÀI KHOẢN

- 1 Tạo tài khoản
- 2 Điền thông tin liên hệ
- 3 Chụp ảnh CMND



CHỦ TRỌ ĐĂNG KÝ TÀI KHOẢN

- 1 Tạo tài khoản
- 2 Điền thông tin liên hệ
- 3 Chụp ảnh CMND





3.8 Dashboard [Landlord]

- Function trigger: Landlord accesses the website
- Function description:
 - Role: Landlord
 - Purpose: Landlord view list of houses and search for houses by name or filter it by category
- Screen layout:

A screenshot of the FU HOUSE FINDER dashboard for landlords. At the top, there is a search bar with the placeholder "Nhập tên trọ, từ khóa tìm kiếm" and a magnifying glass icon. To the right of the search bar is a "Host" button. On the left, there is a sidebar titled "LỌC PHÒNG TRỌ" (Filter) with a "Bán kính: 0 - 2km" slider and dropdown menus for "Huyện", "Xã", and "Thị trấn". The main content area displays search results for "Hòa Lạc Apartment" with three available rooms: "Phòng: 100, 101, 102, 103". At the bottom, the FPT Education Global logo is visible on the left, and the text "FPT Education" is on the right.

3.9 Upload House Information [Landlord]

- Function trigger: Landlord clicks the import button
- Function description:
 - Role: Landlord
 - Purpose: Landlord import information of the house
- Screen layout:

The screenshots show the application's user interface for adding house information. Both screens have an orange header with the title "FU HOUSE FINDER". On the right side of the top header is a "Host" button.

Top Screenshot (Left Side):

- Buttons: "Thêm 1 phòng" (Add 1 room) and "Thêm nhiều phòng" (Add many rooms).
- Text input fields:
 - Tên phòng (Room name)
 - Giá tiền (Price)
 - Thông tin (Information)
 - Số người ở (Number of people)
 - Diện tích (Area)
 - Tòa (Building)
 - Tầng (Floor)
 - Trạng thái (Status)
- File input field: "Ảnh" (Image) with a placeholder "Choose file No file choose".
- Button: "Thêm mới" (Add new).

Bottom Screenshot (Right Side):

- Buttons: "Thêm 1 phòng" (Add 1 room) and "Thêm nhiều phòng" (Add many rooms).
- Download template button: "Download template" with a downward arrow icon.
- Upload template button: "Upload template" with an upward arrow icon and a placeholder "No file choose".
- File input field: "Ảnh" (Image) with a placeholder "Choose file No file choose".
- Button: "Thêm mới" (Add new).

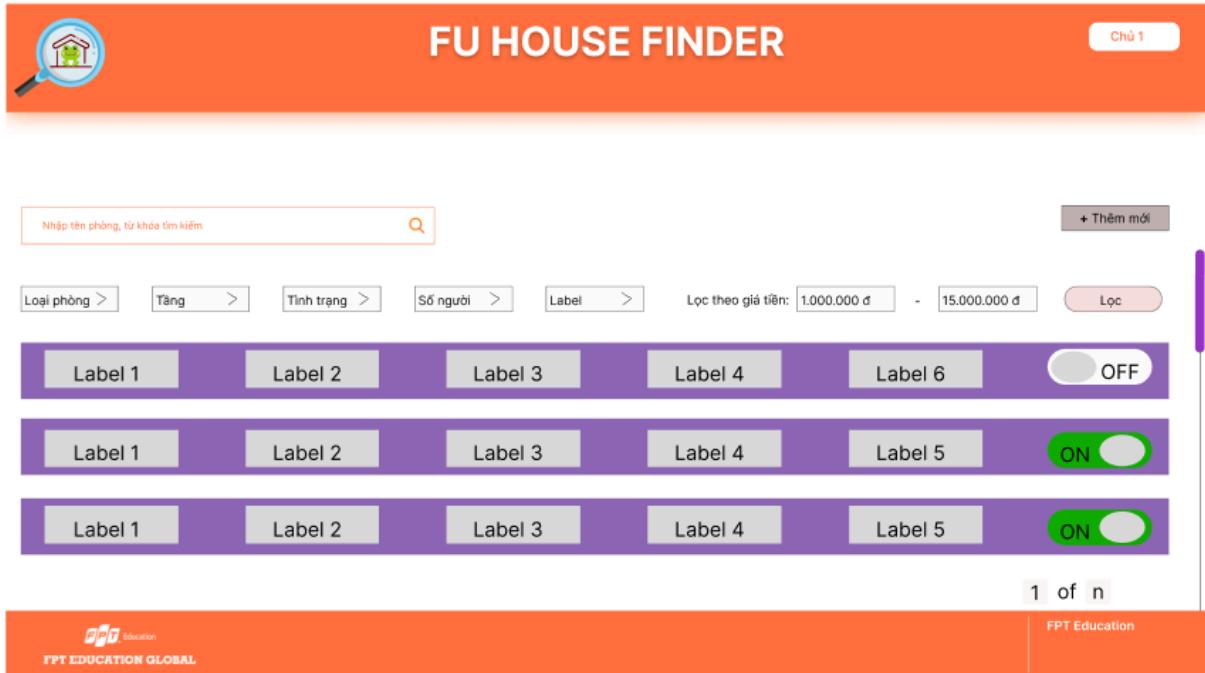
Logos at the bottom of both screens:

- FPT Education logo
- FPT EDUCATION GLOBAL logo
- FPT Education logo on the right side of the bottom screen

3.10 House Detail [Landlord]

- Function trigger: Landlord clicks each item of list houses

- Function description:
 - Role: Landlord
 - Purpose: Display detail information of house and search for rooms by name or filter it by category
- Screen layout:



3.11 Update House [Landlord]

- Function trigger: Landlord clicks the update button
- Function description:
 - Role: Landlord
 - Purpose: Landlord update the house
- Screen layout:



Cập nhật thông tin nhà trọ

Tên nhà trọ:

Địa chỉ:

Huyện: Xã: Thị trấn:

Số nhà:

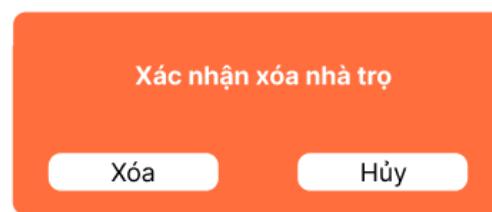
Thông tin khác:

Chú thích:



3.12 Delete House [Landlord]

- Function trigger: Landlord clicks the delete button
- Function description:
 - Role: Landlord
 - Purpose: Landlord delete the house
- Screen layout:



3.13 Update Room [Landlord]

- Function trigger: Landlord clicks the update button of each room in the list
- Function description:
 - Role: Landlord
 - Purpose: Landlord update the room
- Screen layout:

The screenshot shows a mobile application interface titled "FU HOUSE FINDER". At the top left is a magnifying glass icon with a house inside. At the top right is a "Host" button. The main area has two columns of input fields. The left column contains "Tên phòng", "Giá tiền", "Thông tin", and "Số người ở". The right column contains "Diện tích", "Tòa", "Tầng", and "Trạng thái". Below these is a large grey "Cập nhật" button. The bottom of the screen features a footer bar with the "FPT Education" logo on the left and "FPT EDUCATION GLOBAL" on the right.

3.14 Add Room [Landlord]

- Function trigger: Landlord clicks the add button
- Function description:
 - Role: Landlord
- Purpose: Landlord add the new room
- Screen layout:



Tên phòng	Diện tích
Giá tiền	Tòa
Thông tin	Tầng
Số người ở	Trạng thái
Ảnh:	
<input type="button" value="Choose file"/> No file choose	
<input type="button" value="Thêm mới"/>	



3.15 Delete Room [Landlord]

- Function trigger: Landlord clicks the delete button of each room in the list
- Function description:
 - Role: Landlord
 - Purpose: Landlord delete the room
- Screen layout:



3.16 Dashboard [Staff]

- Function trigger: Staff accesses the website
- Function description:
 - Role: Staff
 - Purpose: Staff view houses and rooms statistics
- Screen layout:



3.17 List Of Landlords [Staff]

- Function trigger: Staff clicks the list landlords button in the navbar
- Function description:
 - Role: Staff
 - Purpose: Staff view houses statistics, list of landlords and filter the results
- Screen layout:



The screenshot shows the FPT Education Global dashboard. At the top, there are six summary boxes: 'Tổng nhà' (31), 'Nhà trống' (12), 'Tổng phòng' (73), 'Phòng trống' (63), 'Tổng chỗ' (155), and 'Chỗ trống' (81). Below this is a section titled 'Danh sách chủ trọ' (Landlord list) with a search bar. A table lists 13 landlords with columns for ID, Name, Phone, Facebook, Total houses, Total rooms, Vacant rooms, Status, and an 'Info' button.

STT	Id	Họ Tên	Số Điện Thoại	Facebook	Tổng nhà	Tổng phòng	Phòng trống	Trạng thái	Tùy chọn
1	LA000001	Tâm Lê	0987654321	Tâm Lê	4	16	11	<input checked="" type="checkbox"/> Hoạt động	i
2	LA000002	Dũng Nhung	0982298681	Dũng Nhung	4	10	9	<input checked="" type="checkbox"/> Hoạt động	i
3	LA000003	Nga Hương	0984530814	Nga Hương	7	13	9	<input checked="" type="checkbox"/> Hoạt động	i
4	LA000004	Bình Yên	0973866690	Bình Yên	4	6	6	<input checked="" type="checkbox"/> Hoạt động	i
5	LA000005	Tiến Phương	0961602245	Tiến Phương	5	7	7	<input checked="" type="checkbox"/> Hoạt động	i
6	LA000006	Ngọc Hương	0981914814	Ngọc Hương	1	3	3	<input checked="" type="checkbox"/> Hoạt động	i
10	LA000010	Thái Hà	0961602245	Thái Hà	1	3	3	<input checked="" type="checkbox"/> Hoạt động	i
11	LA000011	Việt Dũng	0363266546	Việt Dũng	1	3	3	<input checked="" type="checkbox"/> Hoạt động	i
12	LA000012	Tuấn Cường	0363266546	Tuấn Cường	1	3	3	<input checked="" type="checkbox"/> Hoạt động	i
13	LA000013	Phương Duy	0365928073	Phương Duy	0	0	0	<input checked="" type="checkbox"/> Hoạt động	i

10	LA000010	Thái Hà	0961602245	Thái Hà	1	3	3	<input checked="" type="checkbox"/> Hoạt động	i
11	LA000011	Việt Dũng	0363266546	Việt Dũng	1	3	3	<input checked="" type="checkbox"/> Hoạt động	i
12	LA000012	Tuấn Cường	0363266546	Tuấn Cường	1	3	3	<input checked="" type="checkbox"/> Hoạt động	i
13	LA000013	Phương Duy	0365928073	Phương Duy	0	0	0	<input checked="" type="checkbox"/> Hoạt động	i

« 1 2 3 »

The footer contains the FPT Education Global logo, social media icons for Facebook and YouTube, and copyright information. It also includes sections for news (Tin tức) and recruitment (Tuyển sinh) with links to various educational institutions.

3.18 Landlord Detail [Staff]

- Function trigger: Staff clicks the detail button of each landlord in the list
- Function description:
 - Role: Staff
 - Purpose: Staff view houses statistics, detail information of landlord, list houses of this landlord and filter the results
- Screen layout:

Dashboard						Danh sách chủ trọ	Danh sách nhà trọ	Báo cáo	Chủ trọ đăng ký	Nguyễn vọng	Chủ trọ	Đăng xuất
Tổng nhà	Nhà trống	Tổng phòng	Phòng trống	Tổng chỗ	Chỗ trống							
31	12	73	63	155	81							
	<p>Họ và tên: Tâm Lê Facebook: facebook.com/tamle12 Số điện thoại: 0987654321 Địa chỉ: Nhà số..., Đường...; Đối diện cổng sau Đại học FPT; Cạnh quán Bún bò Huế</p>						<p>Tổng số nhà trọ: 4 nhà Tổng số phòng: 16 phòng Tổng số phòng trống: 11 phòng</p>					

Danh sách nhà trọ

Nhập từ khóa tìm kiếm 

STT	ID	Tên nhà trọ	Giá điện	Giá nước	♂	♀	WC	Tiện ích	Tùy chọn
1	1	Trọ Tâm Lê	đ3,700	đ1,200	1	3	5		
2	13	Trọ Linh Lê	đ3,700	đ1,200	0	3	3		
3	14	Trọ Tâm Nguyễn	đ3,700	đ1,200	0	3	3		

1	1	Trọ Tâm Lê	đ3,700	đ1,200	1	3	5		
2	13	Trọ Linh Lê	đ3,700	đ1,200	0	3	3		
3	14	Trọ Tâm Nguyễn	đ3,700	đ1,200	0	3	3		
4	20	Trọ Campus 1	đ3,400	đ1,500	0	1	1		

« 1 2 3 »

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  Sitemap website Copyright © 2017 FPT Education			Sinh viên quốc tế Ngân hạn Đài hạn

3.19 House Detail [Staff]

- Function trigger: Staff clicks the detail button of each house in the list
- Function description:
 - Role: Staff
 - Purpose: Staff view houses statistics, detail information of house, list rooms of this house and filter the results
- Screen layout:

Dashboard Danh sách chủ тро Danh sách nhà тро Báo cáo Chủ тро đăng ký Nguyên vọng

Chủ тро Đăng xuất

Tổng nhà	Nhà trống	Tổng phòng	Phòng trống	Tổng chỗ	Chỗ trống																																																								
31	12	73	63	155	81																																																								
Tên nhà trọ: Trọ Tâm Lê Giá điện: 3700/kWh Giá nước: 1200/m3 Địa chỉ: Nhà số..., Đường...; Đối diện cổng sau Đại học FPT; Cảnh quan Bún bò Huế Thông tin khác: Rất đẹp			Tổng số phòng trống: 9 phòng Tổng số chỗ trống: 0 phòng																																																										
<h3>Danh sách phòng</h3> <div style="display: flex; justify-content: space-between;"> Nhập từ khóa tìm kiếm </div> <table border="1"> <thead> <tr> <th>STT</th> <th>Tên phòng</th> <th>Giá phòng</th> <th>Tiện ích</th> <th>Diện tích</th> <th>Số người ở</th> <th>Trạng thái</th> <th>Tùy chọn</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>101</td> <td>đ3,000,000</td> <td></td> <td>20 m²</td> <td>3</td> <td>Còn Trống</td> <td></td> </tr> <tr> <td>2</td> <td>102</td> <td>đ3,500,000</td> <td></td> <td>15 m²</td> <td>2</td> <td>Còn Trống</td> <td></td> </tr> <tr> <td>6</td> <td>203</td> <td>đ2,000,000</td> <td></td> <td>25 m²</td> <td>3</td> <td>Đã thuê</td> <td></td> </tr> <tr> <td>7</td> <td>301</td> <td>đ3,000,000</td> <td></td> <td>20 m²</td> <td>2</td> <td>Còn Trống</td> <td></td> </tr> <tr> <td>8</td> <td>302</td> <td>đ2,500,000</td> <td></td> <td>15 m²</td> <td>1</td> <td>Còn Trống</td> <td></td> </tr> <tr> <td>9</td> <td>303</td> <td>đ2,000,000</td> <td></td> <td>25 m²</td> <td>1</td> <td>Đã thuê</td> <td></td> </tr> </tbody> </table>						STT	Tên phòng	Giá phòng	Tiện ích	Diện tích	Số người ở	Trạng thái	Tùy chọn	1	101	đ3,000,000		20 m ²	3	Còn Trống		2	102	đ3,500,000		15 m ²	2	Còn Trống		6	203	đ2,000,000		25 m ²	3	Đã thuê		7	301	đ3,000,000		20 m ²	2	Còn Trống		8	302	đ2,500,000		15 m ²	1	Còn Trống		9	303	đ2,000,000		25 m ²	1	Đã thuê	
STT	Tên phòng	Giá phòng	Tiện ích	Diện tích	Số người ở	Trạng thái	Tùy chọn																																																						
1	101	đ3,000,000		20 m ²	3	Còn Trống																																																							
2	102	đ3,500,000		15 m ²	2	Còn Trống																																																							
6	203	đ2,000,000		25 m ²	3	Đã thuê																																																							
7	301	đ3,000,000		20 m ²	2	Còn Trống																																																							
8	302	đ2,500,000		15 m ²	1	Còn Trống																																																							
9	303	đ2,000,000		25 m ²	1	Đã thuê																																																							

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Bản chuyên giáo dục
Phục vụ cộng đồng

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Đại học FPT
Greenwich Việt Nam
Swinburne Việt Nam
Cao đẳng FPT Polytechnic
Viện Đào tạo Quốc tế FPT
Melbourne Polytechnic Việt Nam

Sinh viên quốc tế
Ngắn hạn
Dài hạn

3.20 Room Detail [Staff]

- Function trigger: Staff clicks the detail button of each room in the list
- Function description:
 - Role: Staff
 - Purpose: Staff view detail information of this room
- Screen layout:



Thông tin mô tả

Tủ lạnh: Có
 Máy giặt: Không
 Vệ sinh khép kín: Có
 Không chung chủ: Có

Bếp: Có
 Bàn học: Không
 Giường: Có

Gạch sân nhà có họa tiết hình con cá

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Melbourne Polytechnic Việt Nam

Sinh viên quốc tế
Ngắn hạn
Dài hạn

3.21 List Of Houses [Staff]

- Function trigger: Staff clicks the list houses button in the navbar
- Function description:
 - Role: Staff
 - Purpose: Staff view houses statistics, list of houses and filter the results
- Screen layout:

Dashboard						Danh sách chủ trợ	Danh sách nhà trọ	Báo cáo	Chú trợ đăng ký	Nguyễn vọng	Chú trợ	Đảng xuất																																																																																																																																					
31 Tổng nhà		12 Nhà trống		73 Tổng phòng		63 Phòng trống		155 Tổng chỗ		81 Chỗ trống																																																																																																																																							
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>STT</th> <th>ID</th> <th>Tên nhà trọ</th> <th>Giá điện</th> <th>Giá nước</th> <th>♂</th> <th>♀</th> <th>↙</th> <th>Tiện ích</th> <th>Tùy chọn</th> <th>↙</th> <th>↙</th> <th>↙</th> </tr> </thead> <tbody> <tr><td>1</td><td>5</td><td>Nhà trọ Tiến Phương</td><td>đ3,600</td><td>đ1,200</td><td>0</td><td>3</td><td>3</td><td><input type="checkbox"/></td><td>i</td><td></td><td></td></tr> <tr><td>2</td><td>6</td><td>Nhà trọ Phương Duy</td><td>đ3,800</td><td>đ1,300</td><td>0</td><td>3</td><td>3</td><td><input type="checkbox"/></td><td>i</td><td></td><td></td></tr> <tr><td>3</td><td>7</td><td>HOLA Campus</td><td>đ3,200</td><td>đ1,500</td><td>0</td><td>3</td><td>3</td><td><input type="checkbox"/> P</td><td>i</td><td></td><td></td></tr> <tr><td>4</td><td>8</td><td>Tro Hoàng Nam</td><td>đ3,400</td><td>đ1,250</td><td>0</td><td>3</td><td>3</td><td><input type="checkbox"/></td><td>i</td><td></td><td></td></tr> <tr><td>5</td><td>9</td><td>Kí túc xá Ông bà</td><td>đ3,600</td><td>đ1,400</td><td>0</td><td>3</td><td>3</td><td><input type="checkbox"/></td><td>i</td><td></td><td></td></tr> <tr><td>6</td><td>10</td><td>Nhà trọ Thái Hà</td><td>đ3,500</td><td>đ1,500</td><td>0</td><td>3</td><td>3</td><td>P</td><td>i</td><td></td><td></td></tr> <tr><td>9</td><td>24</td><td>Trọ Campus 5</td><td>đ3,400</td><td>đ1,500</td><td>0</td><td>1</td><td>1</td><td>P</td><td>i</td><td></td><td></td></tr> <tr><td>10</td><td>27</td><td>Trọ RoomType 3</td><td>đ3,400</td><td>đ1,500</td><td>0</td><td>1</td><td>1</td><td>P</td><td>i</td><td></td><td></td></tr> <tr><td>11</td><td>30</td><td>Trọ District 3</td><td>đ3,400</td><td>đ1,500</td><td>0</td><td>1</td><td>1</td><td>P</td><td>i</td><td></td><td></td></tr> <tr><td>12</td><td>31</td><td>Trọ Hồ Chí Minh</td><td>đ3,400</td><td>đ1,500</td><td>0</td><td>1</td><td>1</td><td>P</td><td>i</td><td></td><td></td></tr> </tbody> </table>													STT	ID	Tên nhà trọ	Giá điện	Giá nước	♂	♀	↙	Tiện ích	Tùy chọn	↙	↙	↙	1	5	Nhà trọ Tiến Phương	đ3,600	đ1,200	0	3	3	<input type="checkbox"/>	i			2	6	Nhà trọ Phương Duy	đ3,800	đ1,300	0	3	3	<input type="checkbox"/>	i			3	7	HOLA Campus	đ3,200	đ1,500	0	3	3	<input type="checkbox"/> P	i			4	8	Tro Hoàng Nam	đ3,400	đ1,250	0	3	3	<input type="checkbox"/>	i			5	9	Kí túc xá Ông bà	đ3,600	đ1,400	0	3	3	<input type="checkbox"/>	i			6	10	Nhà trọ Thái Hà	đ3,500	đ1,500	0	3	3	P	i			9	24	Trọ Campus 5	đ3,400	đ1,500	0	1	1	P	i			10	27	Trọ RoomType 3	đ3,400	đ1,500	0	1	1	P	i			11	30	Trọ District 3	đ3,400	đ1,500	0	1	1	P	i			12	31	Trọ Hồ Chí Minh	đ3,400	đ1,500	0	1	1	P	i		
STT	ID	Tên nhà trọ	Giá điện	Giá nước	♂	♀	↙	Tiện ích	Tùy chọn	↙	↙	↙																																																																																																																																					
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3.22 List Of Reports [Staff]

- Function trigger: Staff clicks the list reports button in the navbar
- Function description:
 - Role: Staff
 - Purpose: Staff view list of reports, report of each house and filter the results
- Screen layout:

Danh sách báo cáo

Báo cáo theo nhà

Danh sách báo cáo

Nhập từ khóa tìm kiếm



Từ ngày

11/09/2022

Đến ngày

11/07/2022

Sắp xếp

Chọn sắp xếp

STT	Tên sinh viên	Nhà trọ	Ngày báo cáo	Nội dung
1	Nguyen The Giang	Trọ Tâm Lê	01/01/0001	Chủ trọ tăng giá phòng trái với hợp đồng
2	Nguyen The Giang	Trọ Hòa Lạc Yên Lạc Viên	01/01/0001	Chủ trọ tự ý vào phòng của bạn và tháo bóng đèn trong nhà vệ sinh của bạn
3	Nguyen The	Nhà trọ Bình Yên	01/01/0001	Chủ trọ tăng giá phòng trái với hợp đồng

Danh sách báo cáo

Báo cáo theo nhà

Danh sách nhà bị báo cáo

Nhập từ khóa tìm kiếm



Trạng thái

Chọn sắp xếp

Sắp xếp

Chọn sắp xếp

STT	Nhà trọ	Chủ trọ	Số lượt báo cáo	Trạng thái chủ trọ	Tùy chọn
1	Trọ Tâm Lê	Tâm Lê	5	<input checked="" type="checkbox"/>	
2	Trọ Tâm Thảo	Dũng Nhung	1	<input checked="" type="checkbox"/>	
3	Trọ Hòa Lạc Yên Lạc Viên	Nga Hương	2	<input checked="" type="checkbox"/>	
4	Nhà trọ Bình Yên	Bình Yên	2	<input checked="" type="checkbox"/>	

Danh sách báo cáo

Báo cáo theo nhà

Thông tin chi tiết

Thông tin chủ trọ

Tên chủ trọ: Tâm Lê
Số điện thoại: 0987654321
Link facebook: facebook.com/tamle12

Trạng thái

Chọn sắp xếp

STT

Nhà trọ

1 Trọ Tâm Lê

2 Trọ Tâm Thảo

3 Trọ Hòa Lạc Yên Lạc Viên

4 Nhà trọ Bình Yên

Danh sách báo cáo

STT	Mã sinh viên	Tên sinh viên	Nội dung	Ngày báo cáo
1	HE153046	Nguyen The Giang	Chủ trọ tăng giá phòng trái với hợp đồng	01/01/0001
2	HE153046	Nguyen The Giang	Chủ trọ xâm phạm quyền riêng tư	01/01/0001
3	HE153046	Nguyen The Giang	Chủ trọ tăng giá phòng trái với hợp đồng	01/01/0001

3.21 List Of Landlords Signup Request [Staff]

- Function trigger: Staff clicks the list requests button in the navbar
- Function description:
 - Role: Staff
 - Purpose: Staff view list of request and filter the results
- Screen layout:

3.22 List Of Orders [Staff]

- Function trigger: Staff clicks the list orders button in the navbar
- Function description:
 - Role: Staff
 - Purpose: Staff view list of orders, detail of order and filter the results
- Screen layout:

STT	Mã sinh viên	Số điện thoại	Email	Ngày tạo	Ngày giải quyết	Trạng thái	Tùy chọn
1	HE150160	0346034217	huyenbnhe150346@fpt.edu.vn	03/05/2022	10/07/2022	Đã giải quyết	(i)
2	HE150432	0346034217	huyenbnhe150346@fpt.edu.vn	03/01/2022	10/01/2022	Đã giải quyết	(i)
3	HE150600	0346034217	huyenbnhe150346@fpt.edu.vn	03/06/2022	10/07/2022	Đã giải quyết	(i)
4	HE153222	0346034217	huyenbnhe150346@fpt.edu.vn	03/08/2022	18/11/2022	Đã giải quyết	(i)
5	HE150600	0346034217	huyenbnhe150346@fpt.edu.vn	03/01/2022	10/02/2022	Đã giải quyết	(i)

Thông tin chi tiết

Tên sinh viên: Nguyễn Trí Kiên
Số điện thoại: 0346034217
Email: huyenbnhe150346@fpt.edu.vn
Ngày tạo: May 3, 2022
Nội dung: Cần tìm nhà nguyên căn 4 phòng ngủ, đầy đủ nội thất, gần đh fpt.

Trạng thái: Solved

Close Save changes

STT	Mã sinh viên	Số điện thoại	Email	Ngày tạo	Ngày giải quyết	Trạng thái	Tùy chọn
1	HE150160	0346034217	huyenbnhe150346@fpt.edu.vn	03/05/2022	10/07/2022	Đã giải quyết	(i)
2	HE150432	0346034217	huyenbnhe150346@fpt.edu.vn	03/01/2022	10/01/2022	Đã giải quyết	(i)
3	HE150600	0346034217	huyenbnhe150346@fpt.edu.vn	03/06/2022	10/07/2022	Đã giải quyết	(i)
4	HE153222	0346034217	huyenbnhe150346@fpt.edu.vn	03/08/2022	18/11/2022	Đã giải quyết	(i)
5	HE150600	0346034217	huyenbnhe150346@fpt.edu.vn	03/01/2022	10/02/2022	Đã giải quyết	(i)

7	HE153046	0346034217	huyenbnhe150346@fpt.edu.vn	03/02/2022	10/02/2022	Chưa giải quyết	(i)
8	HE150340	0346034217	huyenbnhe150346@fpt.edu.vn	03/02/2022	10/02/2022	Đã giải quyết	(i)
9	HE150160	0346034217	huyenbnhe150346@fpt.edu.vn	03/02/2022	10/03/2022	Đã giải quyết	(i)
10	HE153299	0346034217	huyenbnhe150346@fpt.edu.vn	31/03/2022		Chưa giải quyết	(i)

« 1 2 3 4 »



4. Non-Functional Requirements

4.1 External Interfaces

4.1.1 User Interfaces

- UI-1: The FU House Finder System screen displays shall conform to the User Interface Design and User Experience Design
- UI-2: The website is designed with the feature of using Angular framework to provide a smooth user experience without having to reload the website many times.

4.1.2 Software Interfaces

- SI-1: FU House Finder Account Checking system
 - SI-1.1: Upload existing user data in the system through a programming interface
 - SI-1.2: The system automatically checks what state the account is in in the Active attribute of User table
 - SI-1.3: There will be 2 states including Active and Deactive. If the account is Active, you will be able to perform actions to the system (including managing Landlord's accounts if you are Staff, and managing Houses if you are Landlord). If the account is Deactive, you will not be able to log in to perform any actions.
- SI-2: FU House Finder Inventory System
 - SI-2.1: House Finder System shall transmit the quantities of house and room items to the House Finder Inventory System through a programmatic interface.
 - SI-2.2: House Finder System shall poll the House Finder Inventory System to determine whether a requested house item is available.
 - SI-2.3: The House Finder System will display the available houses left in system for the searching students. If the house is not available, the system will not display for the student to see.

4.1.3 Hardware Interfaces

No hardware interfaces have been identified.

4.1.4 Communication Interfaces

CI-1: FU House Finder shall send an email or send a message to a phone number (based on user account settings) to the Landlord to report any problems reported by students, the Landlord then will present at University campus to resolve.

4.2 Quality Attributes

4.2.1 Availability

AVL-1: The FU House Finder website shall be available at least 98% of the time between 5:00 A.M. and midnight local time and at least 90% of the time between midnight and 5:00 A.M. local time, excluding scheduled maintenance windows.

4.2.2 Usability

USB-1: The website shall be designed with user-friendly interfaces so that users could complete the main actions once they see the interface.

USB-2: Landlords shall import the list of their houses within 5 steps.

4.2.3 Localization

LCL-1: The date format must be as follows: date/month/year.

4.2.4 Performance

PE-1: The website must provide 7 seconds or less respond time in a Chrome browser in peak usage condition.

PE-2: The web pages shall fully load in an average of 5 seconds in normal condition.

4.2.5 Security

SE-1: Only admin shall be able to create a new staff's account and only staff shall be able to approve/reject landlords' signup request.

SE-2: Landlords must provide their identity card image to be able to sign up a landlord account.

5. Requirement Appendix

5.1 Business Rules

ID	Rule Definition
BR-01	Only Staff can approve Landlord's Sign up request and Deactive Landlord's account.
BR-02	Only Admin can create, modify, or deactivate Staff's account.
BR-03	Landlord can only upload House information after sign up request being approved by Staff.
BR-04	All Passwords require 256-bit encryption.

BR-05	Student's Search functionality requires at least searching by distance from campus, price and utility.
BR-06	Landlord's House information upload must adhere to the rules of the template

5.2 Common Requirements

5.3 Application Messages List

#	Message code	Message Type	Context	Content
1	MSG01	In the body	There is not any search result	Rất tiếc, chúng tôi không tìm thấy nhà trọ bạn mong muốn
2	MSG02	Toast message	User not logged into the system	Vui lòng đăng nhập để sử dụng tính năng này!
3	MSG03	Toast message	Only student can use this feature	Chỉ học sinh có thể sử dụng tính năng này!
4	MSG04	Toast message	Send order successfully	Gửi đơn thành công
5	MSG05	Toast message	Send report successfully	Gửi báo cáo thành công
6	MSG06	Toast message	Comment successfully	Bình luận thành công
7	MSG07	Toast message	Server error	Lỗi Server
8	MSG08	Toast message	Ask if you want more rooms?	Bạn có muốn thêm phòng cho nhà trọ?
9	MSG09	Toast message	Upload room information successfully	Bạn đã upload thành công thông tin nhà trọ!
10	MSG10	Toast message	Confirm deletion of house	Bạn chắc chắn muốn xóa nhà trọ này?
11	MSG11	Toast message	Update successfully	Cập nhật thành công
12	MSG12	Toast message	Error	Lỗi! Thử lại sau vài giây!
13	MSG13	Toast message	Update room successfully	Cập nhật phòng thành công!
14	MSG14	Toast message	Add room successfully	Thêm mới phòng thành công!
15	MSG15	Toast message	Delete room successfully	Xóa phòng thành công!

1 6	MSG16	Toast message	Invalid login	<i>Email hoặc Password không hợp lệ</i>
1 7	MSG17	Toast message	Confirm deletion of account	<i>Bạn có muốn xóa tài khoản này?</i>

5.4 Other Requirements...