

ĐẠI HỌC QUỐC GIA THÀNH PHỐ HỒ CHÍ MINH
TRƯỜNG ĐẠI HỌC KHOA HỌC TỰ NHIÊN
KHOA: CÔNG NGHỆ THÔNG TIN

-----2022-----



BÁO CÁO

Requirements Analysis

LỚP : 19_22

Giáo viên lý thuyết: Th.S. Bùi Tấn Lộc

SINH VIÊN THỰC HIỆN:

19120544 - Cao Thanh Khiết

19120533 - Ninh Duy Huy

19120557 - Trần Tuấn Kiệt

19120558 - Văn Quý Lâm

19120559 - Hà Duy Lãm

Chương 2: Requirements Analysis

2.1/ Wireframe

Booking

Choose your room...

Register

Login

Image

Image

Image

Image

Image

+24 Image

In central Ho Chi Minh city - [Show maps](#)

Conveniently set in the District 1 district of Ho Chi Minh City, RedDoorz Marieline 2 Hotel is located 800 metres from Tao Dan Park, less than 1 km from Fine Arts Museum and an 11-minute walk from Ben Thanh Market. [show more...](#)

Features

- Phòng không hút thuốc
- Lễ tân 24h
- Dọn phòng hằng ngày
- ...

Fill-in your information

Full Name

Ninh Nguyễn Duy Huy Lâm

Identity

21554819231924

Check-in

Sunday, 17 April 2022

Duration

3 nights

Check-out

Wednesday, 20 April 2022

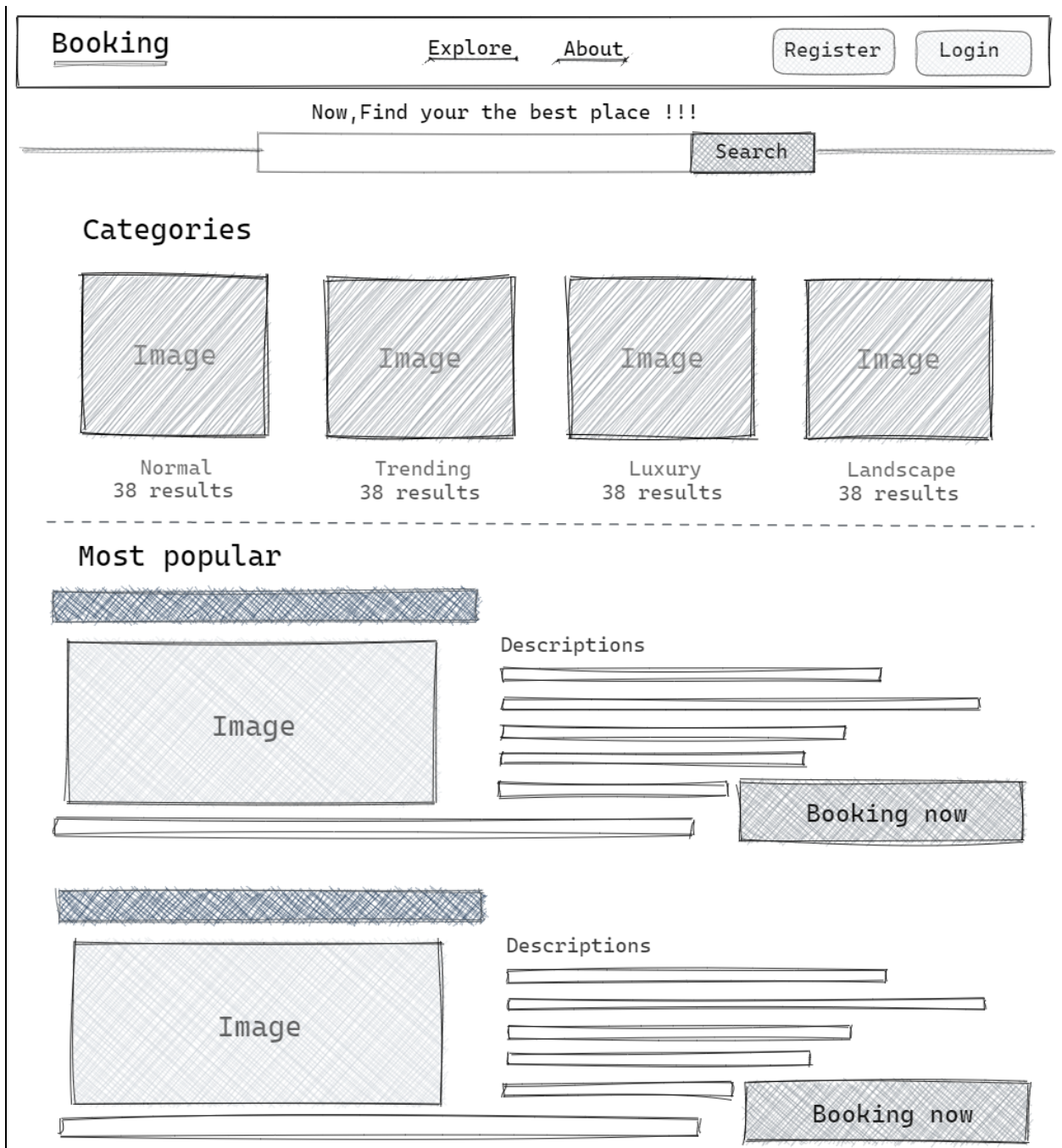
Guests and Rooms

5 Adult(s), 2 Child, 2 Room


☒ Business member

Confirm booking

Hình 2.1.1/ Màn hình điền thông tin đặt phòng




Hình 2.1.2/ Màn hình chính (HomePage)





A hand-drawn diagram of a login form. At the top right is a link labeled Home. In the center is an oval containing the word **LOGIN**. Below this are two input fields: the first is labeled "Account" and the second is labeled "Password". Under the "Account" field is a rounded button labeled "Register". Under the "Password" field is a rounded button labeled "Login". At the bottom left is a checkbox followed by the text "Remember me". At the bottom right is a link labeled Forgot password.


Hình 2.1.3/ Màn hình đăng nhập




?










 Dashboard

 **Manage rooms**


 Settings

Dashboard > Manage rooms

 Admin

Status	Room name	Type	Duration	Cost	+ Add record
✓	Phòng 3 giường	VIP	3 days 23h	28\$/day	 Edit
	Phòng 3 giường	VIP	3 days 23h	28\$/day	 Edit
✓	Phòng 3 giường	VIP	3 days 23h	28\$/day	 Edit
✓	Phòng 3 giường	VIP	3 days 23h	28\$/day	 Edit
	Phòng 3 giường	VIP	3 days 23h	28\$/day	 Edit
✓	Phòng 3 giường	VIP	3 days 23h	28\$/day	 Edit
✓	Phòng 3 giường	VIP	3 days 23h	28\$/day	 Edit

Hình 2.1.4/ Màn hình quản lý thông tin phòng của Admin



Duy Huy

Location
vungtau

Description
Ae 72 mai dinh

Friends
69


Saved recipes
36

Follower
12

Vouchers
7

Edit

Reviews
History
Friends
Stats
Saved vouchers



Bussiness room




\$\$ Dinner, drinks, 2 beds, fridge
218 N Rodeo, Dr Beverly Hills, tayvin

My rating: 3

05/22/2022


Lorem ipsum is a placeholder text commonly used to demonstrate the visual form of a document or a typeface without relying on meaningful content.

Lorem ipsum [show more...](#)

Sort by: Date

Date
Rating
Helpful
Cost



Bussiness room




\$\$ Dinner, drinks, 2 beds, fridge
218 N Rodeo, Dr Beverly Hills, tayvin

My rating: 3

05/22/2022

Lorem ipsum is a placeholder text commonly used to demonstrate the visual form of a document or a typeface without relying on meaningful content.

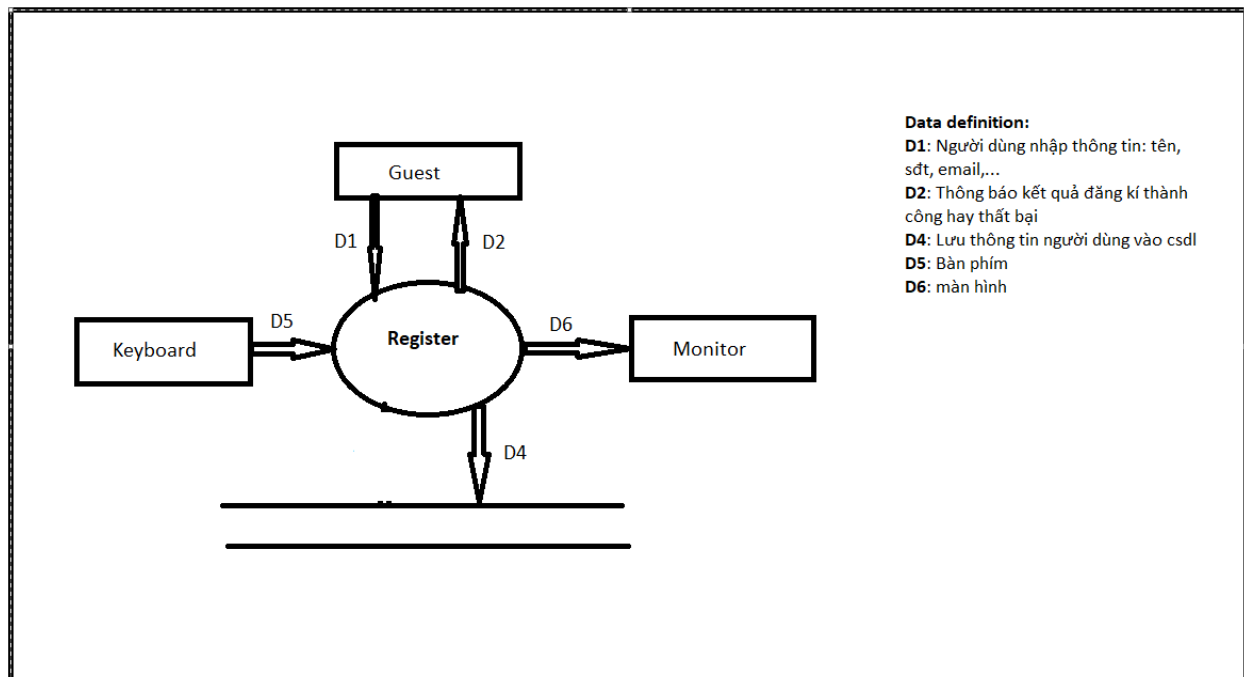
Lorem ipsum [show more...](#)

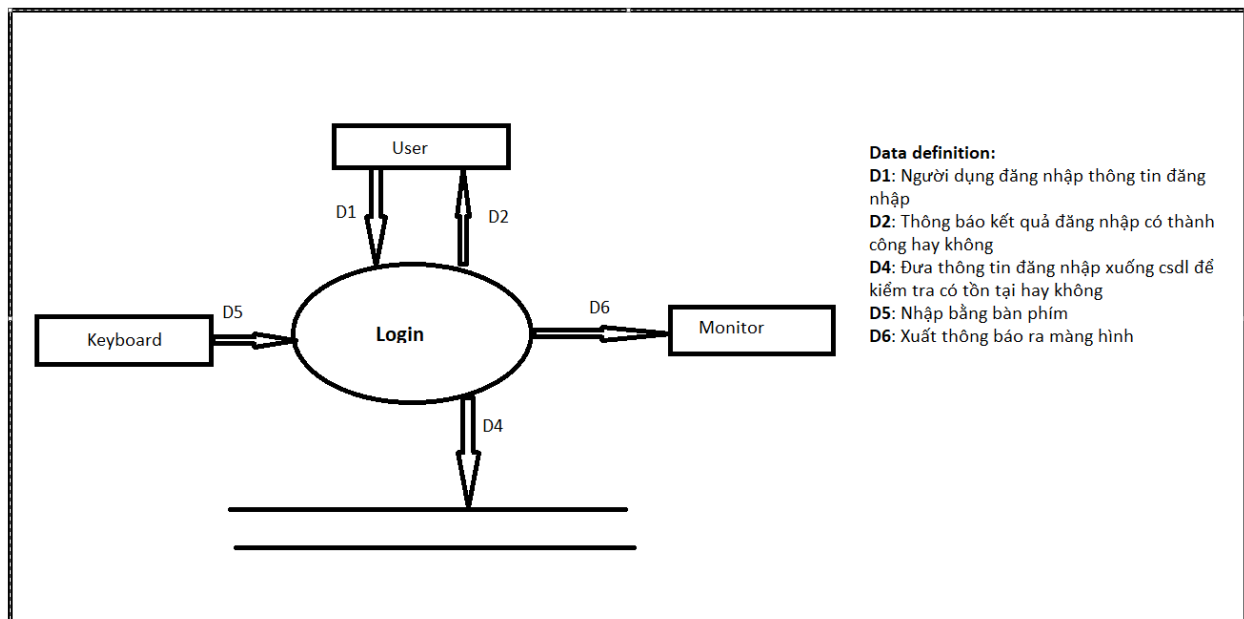
Hình 2.1.5/ Màn hình quản lý thông tin của User

2.2/ Data flow diagram

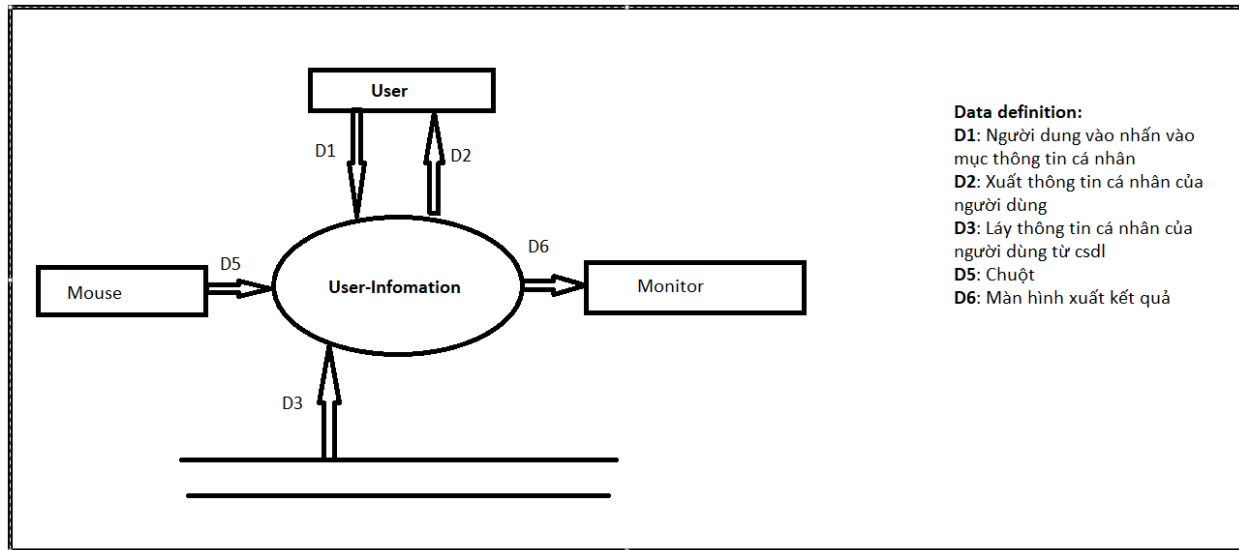
2.2.1/ Màn hình đăng ký tài khoản



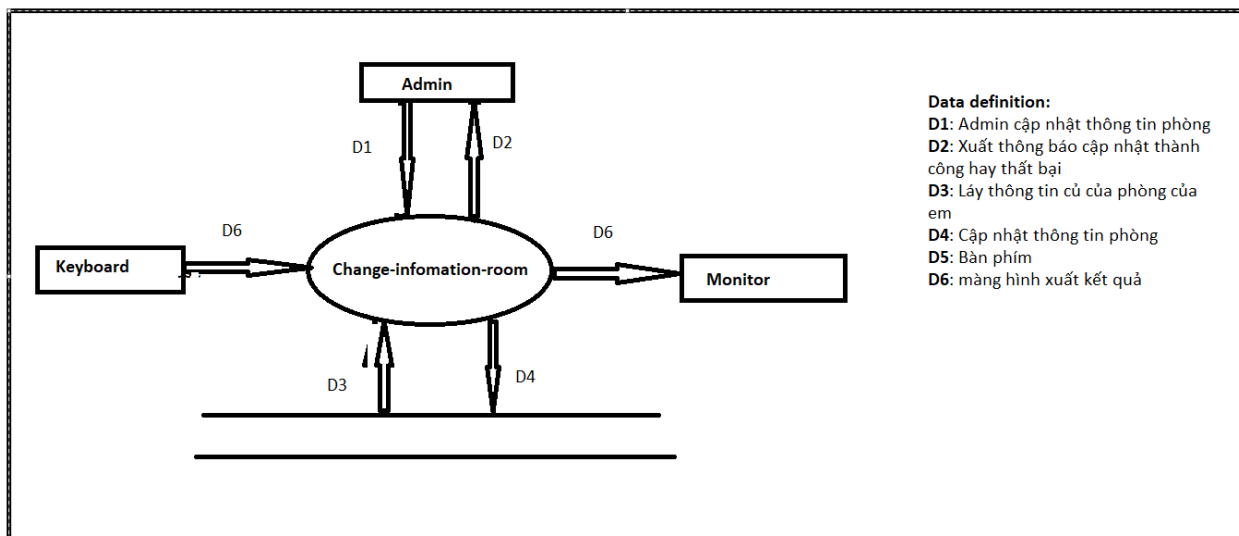
2.2.2/ Màn hình đăng nhập



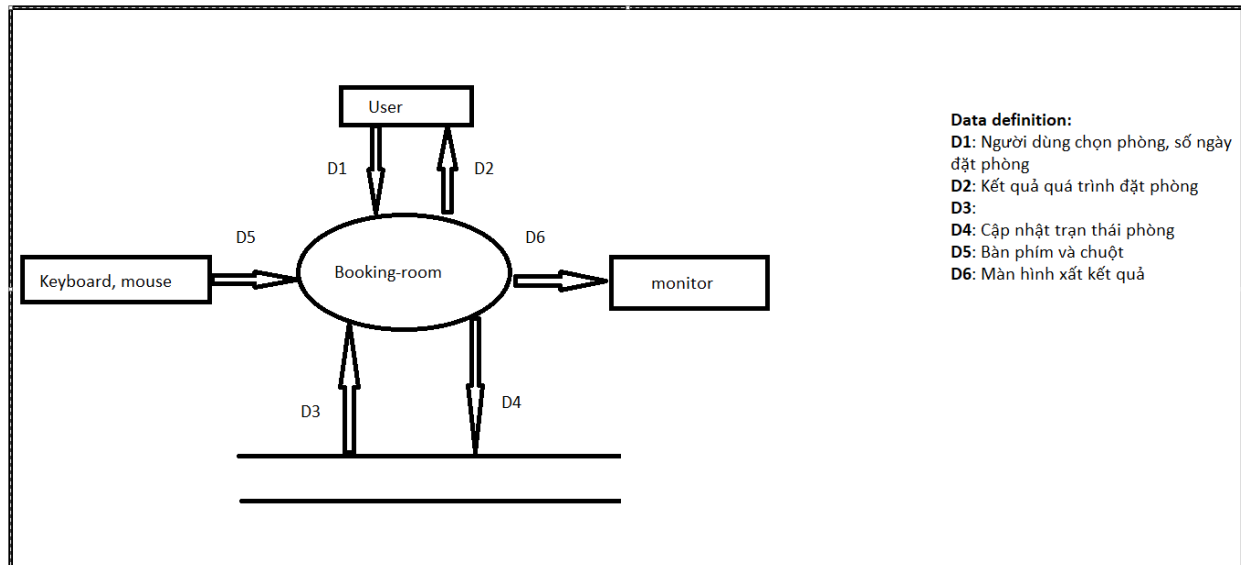
2.2.3/ Màn hình thông tin khách hàng



2.2.4/ Màn hình quản lý thông tin phòng



2.2.5/ Màn hình đặt phòng



2.3/ Data modeling

2.3.1/ Class-Responsibility-Collaboration (CRC) Modeling

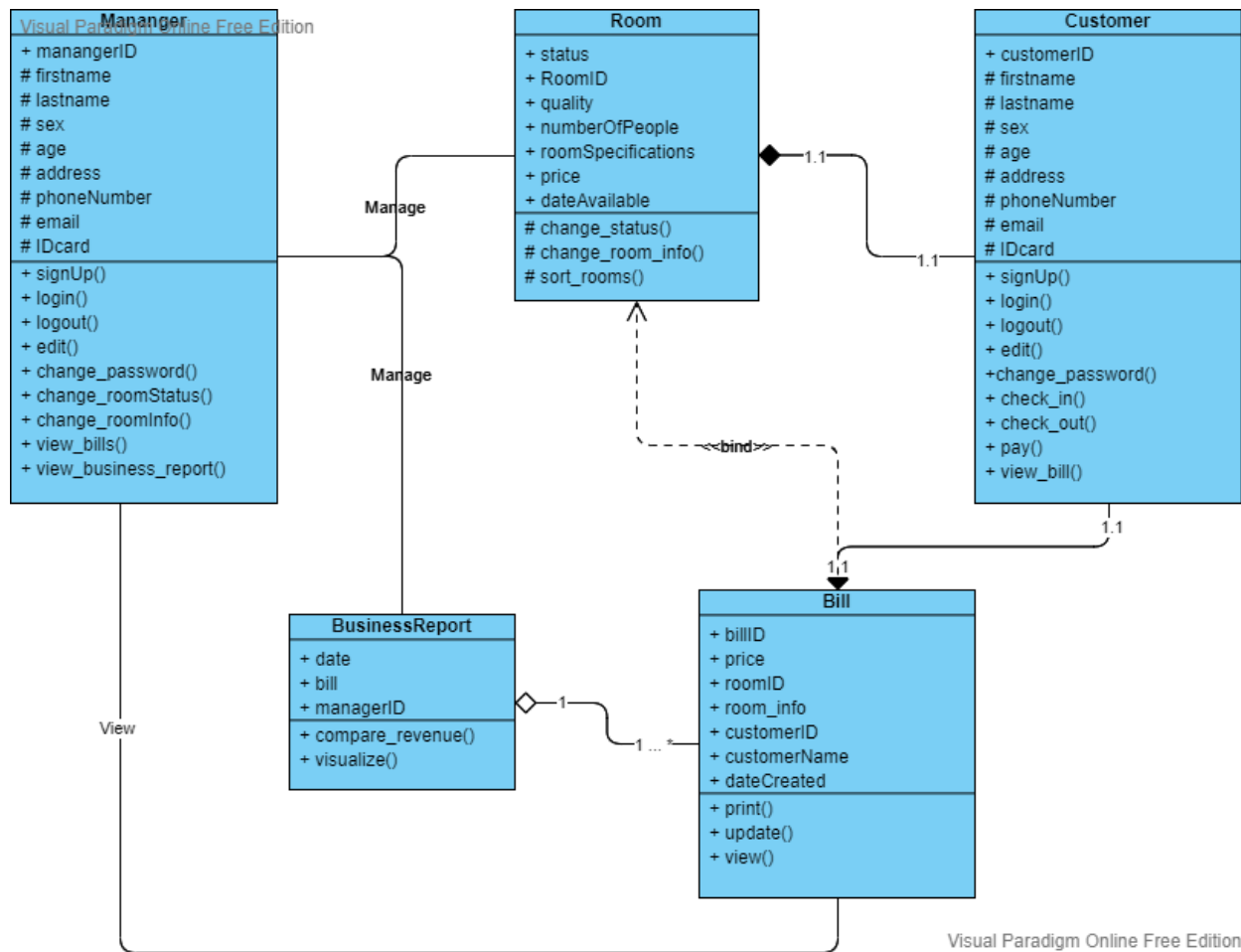
Bảng 2.3.1.1: Các candidate class

Class	Attribute	Operation
Room	status, RoomID, quality, numberOfPeople, roomSpecifications, price, dateAvailable	Change status, change room info, sort rooms based on status
Customer	customerID, firstName, lastName, sex, address, age, phoneNumber, email, IDcard	Sign up, login, logout, edit info, change password, check in, check out, pay, view their own bill
Manager	managerID, firstName, lastName, sex, address, age, phoneNumber, email, IDcard	Sign up, login, logout, edit info, change password, change room info, change room status, view all bills, view business report,
Bill	billID, price, RoomID, RoomInfo, customerID, customerName, dateCreated	Print, view by customer/manager, update

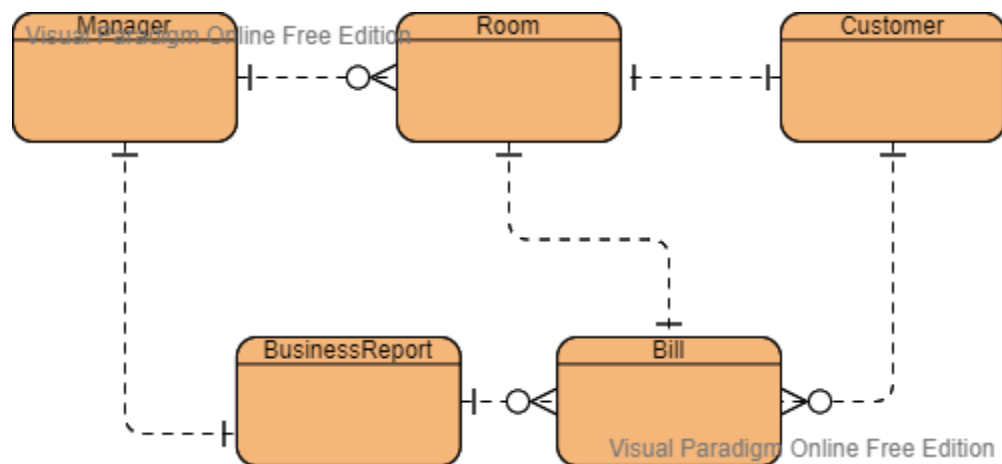
BusinessReport	date, bill, managerID,	Compare revenue between months/quarters, visualize
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Bảng 2.3.1.1: Các candidate table

Class	Attribute	Relationship	Target Table
Room	status, RoomID, quality, numberOfPeople, roomSpecifications, price, dateAvailable	Booked by	Customer
Customer	customerID, firstName, lastName, sex, address, age, phoneNumber, email, IDcard	Book	Room
Manager	managerID, firstName, lastName, sex, address, age, phoneNumber, email, IDcard	Print	Bill
Bill	billID, price, RoomID, RoomInfo, customerID, customerName, dateCreated	Printed by	Manager
BusinessReport	date, bill, managerID,	Reported by	Manager

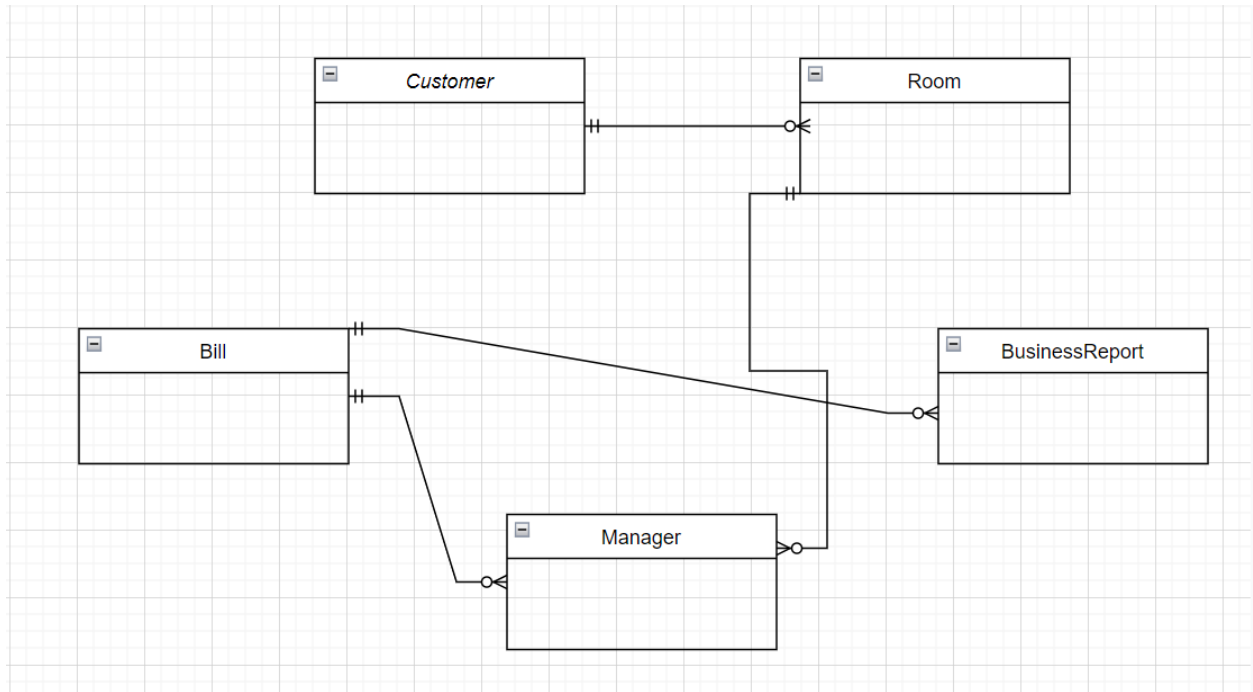


Hình 2.3.1.1: Phiên bản first-cut class diagram

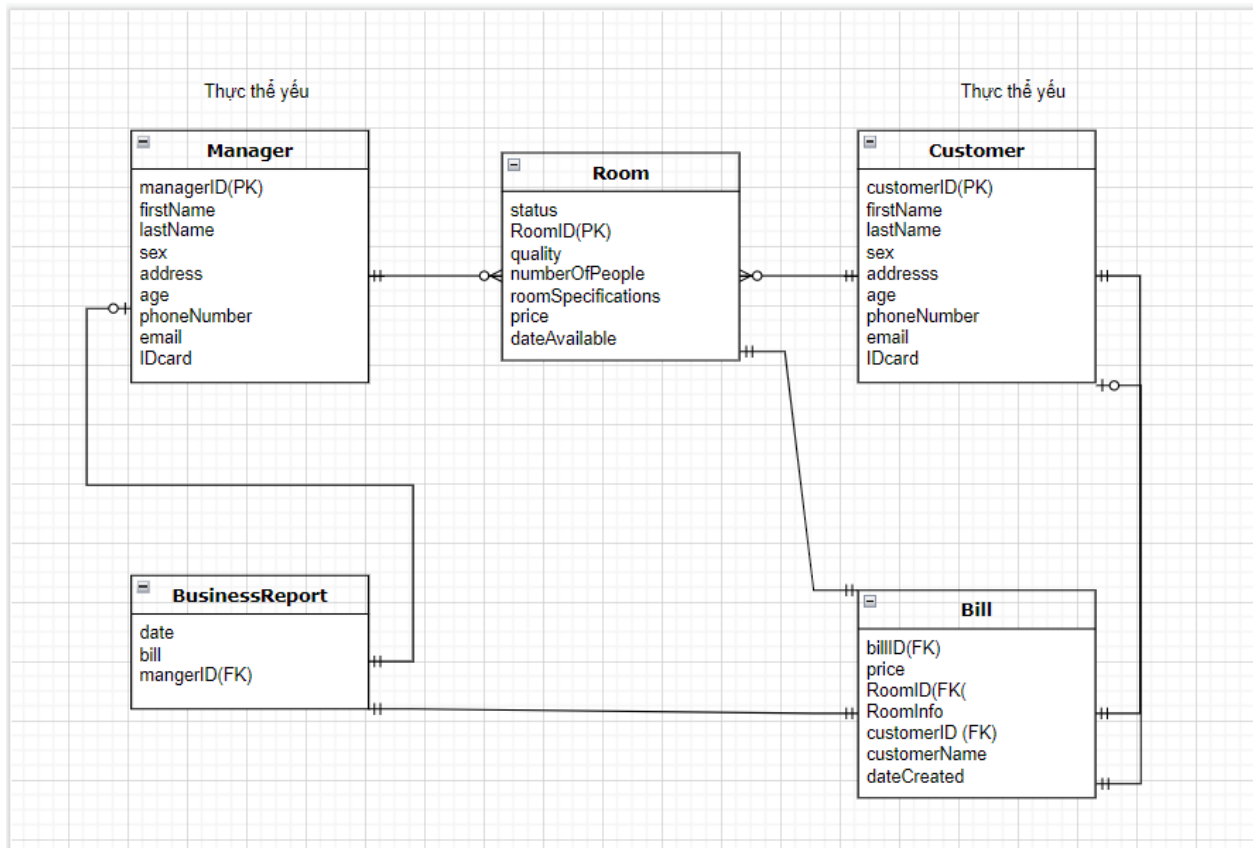


Hình 2.3.1.2: Phiên bản first-cut ERD

2.3.2/ Conceptual ERD



2.3.3/ Logical ERD

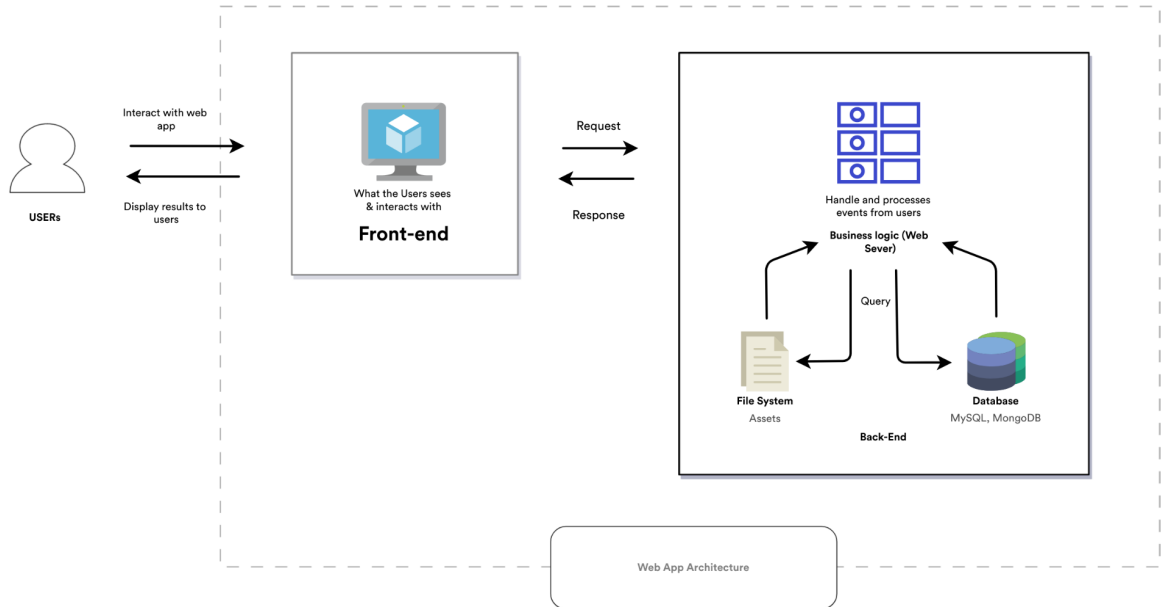


2.4/ Architectural Analysis

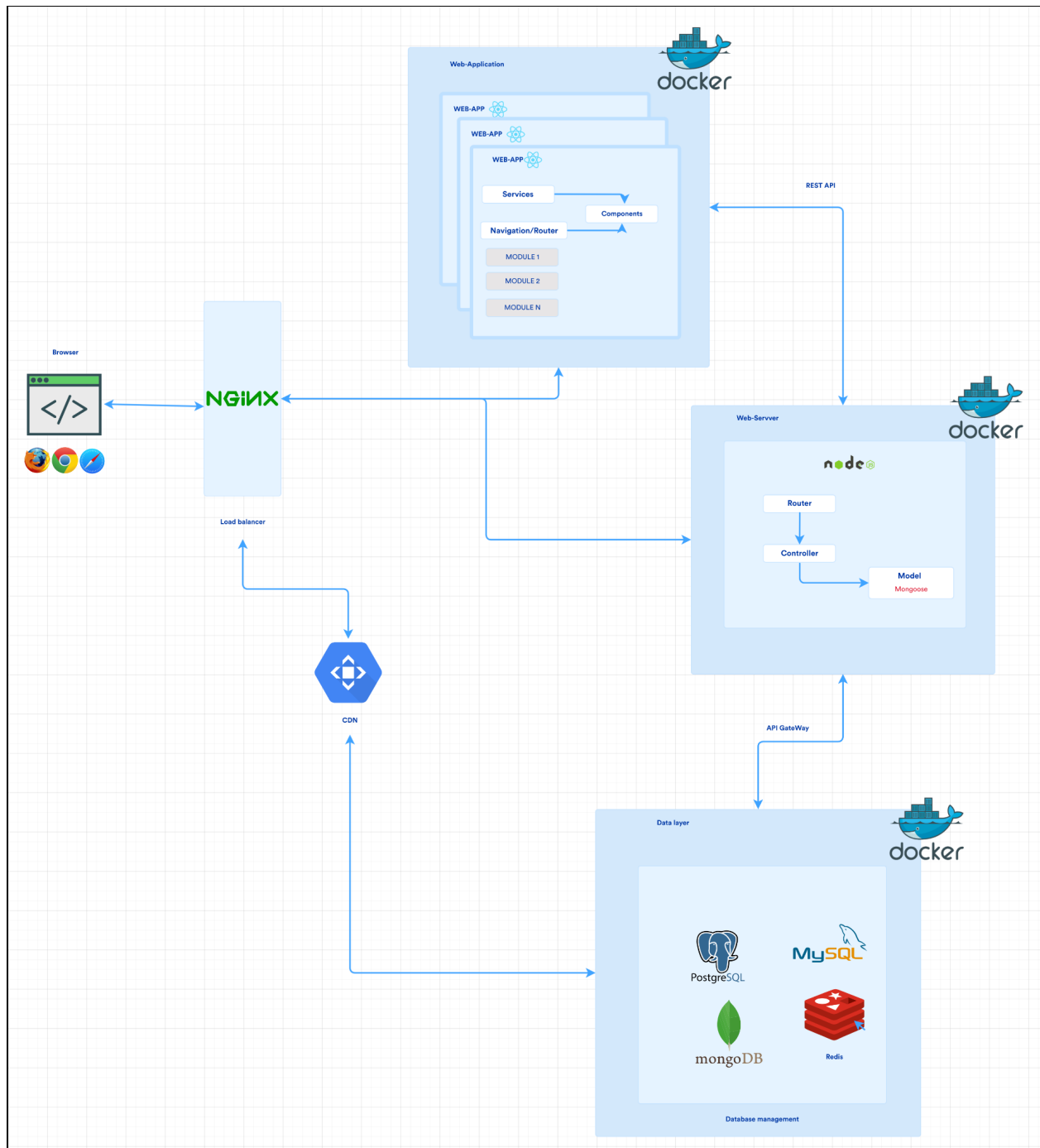
2.4.1/ Analysis Architecture

2.4.1.1/ High Level Abstract Architecture - Level 0

High-level Architectural web-app

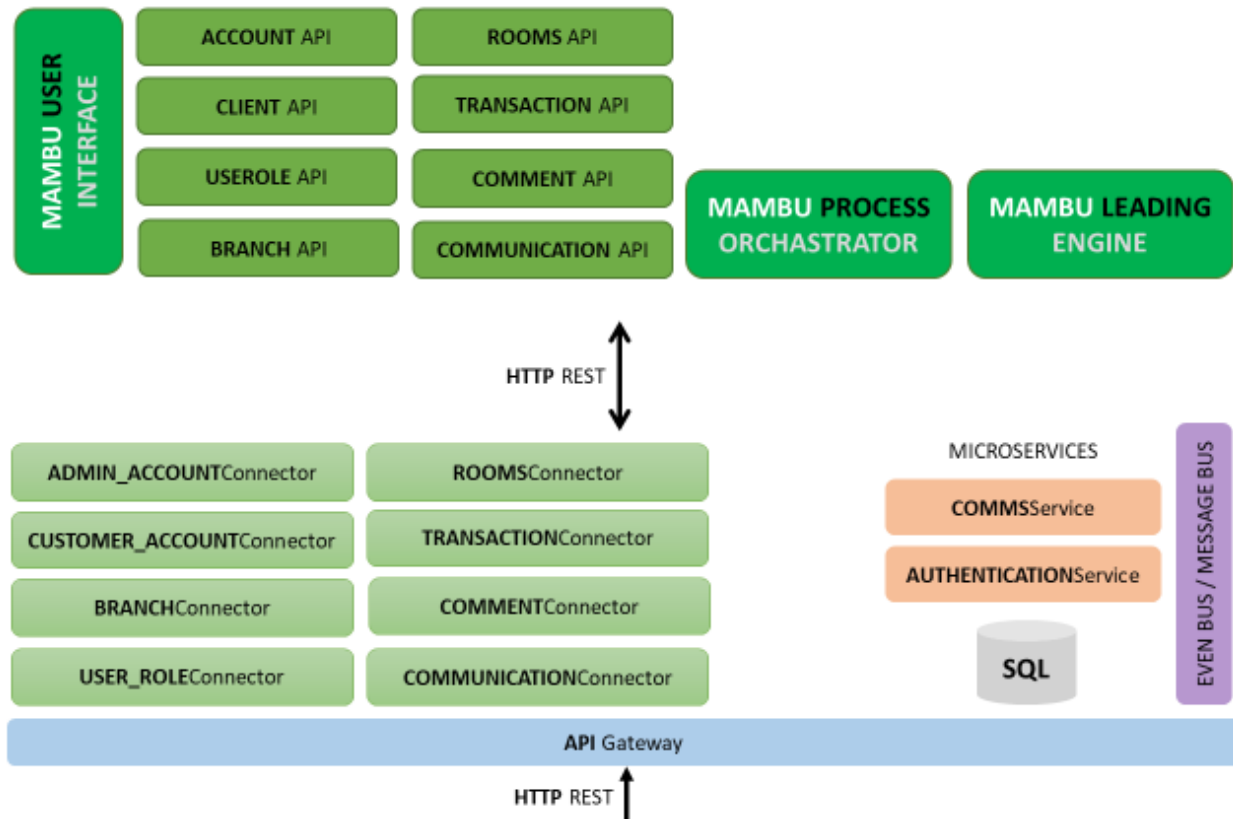


2.4.1.2/ High Level Abstract Architecture - Level 1



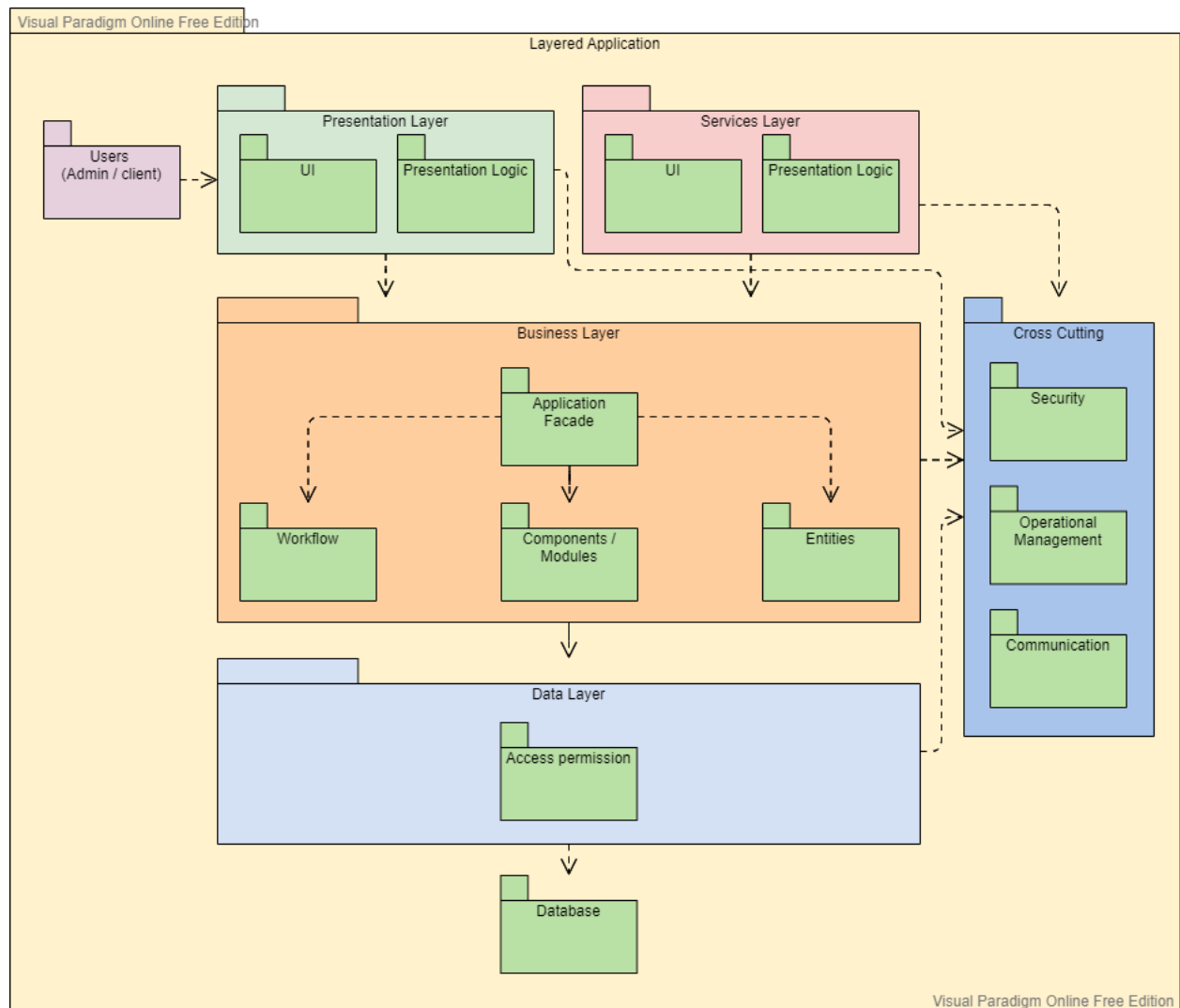
2.4.2/ Analysis Package

2.4.2.1/ High Level Abstract Analysis Package - Level 0



Hình 2.4.2.1: Analysis package cho các sub system

2.4.2.2/ High Level Abstract Analysis Package - Level 1

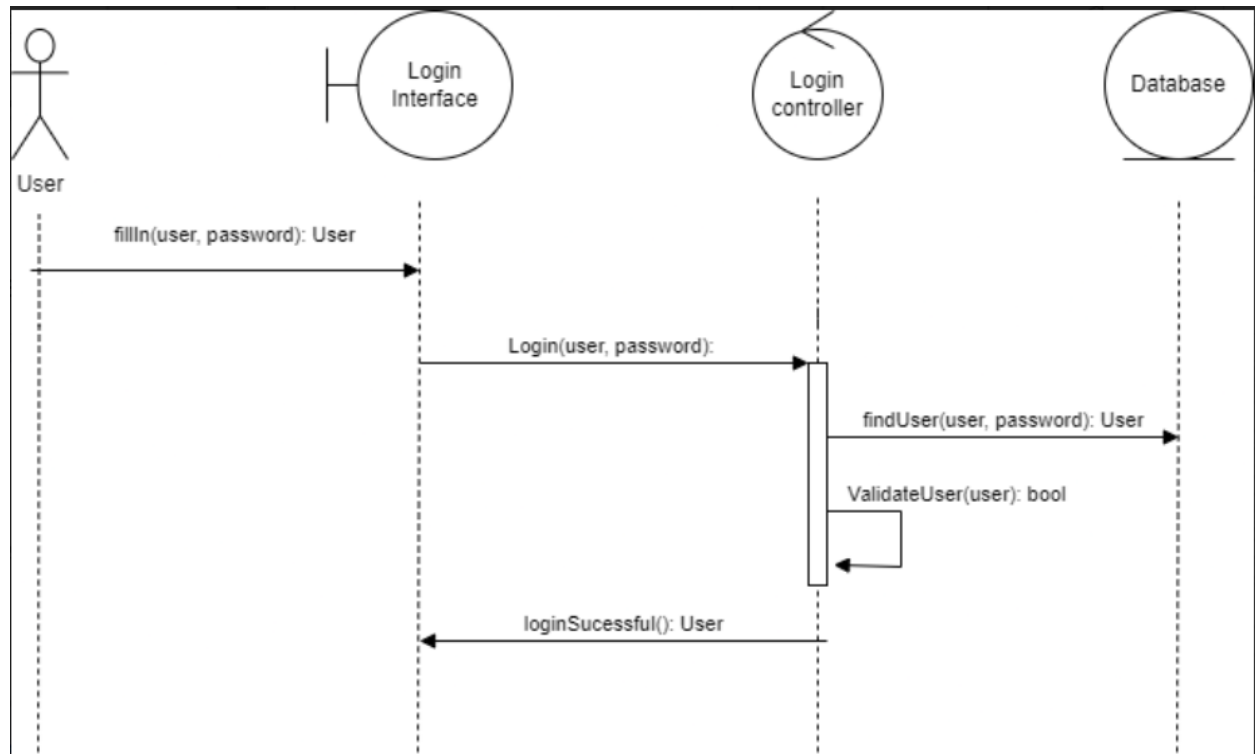


Hình 2.4.2.2: Package Diagram - Layered Application

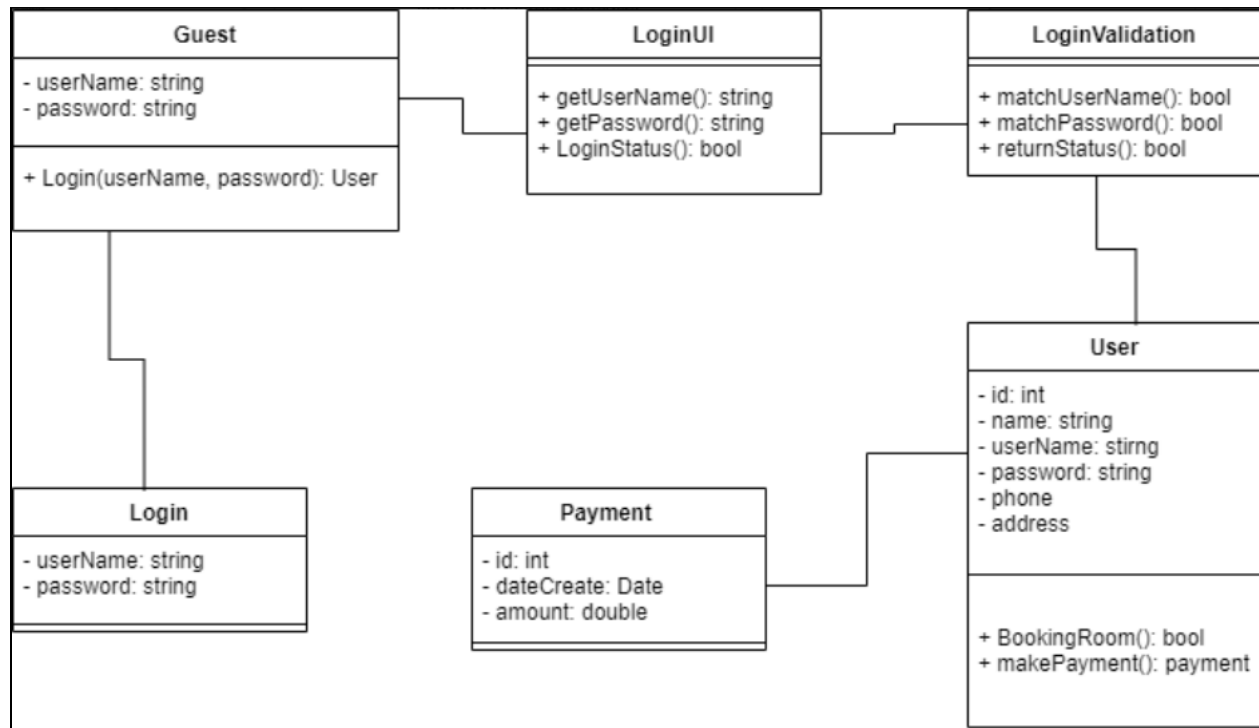
2.5/ VOPC Analysis

2.5.1/ Analysis Class for Login Use Case

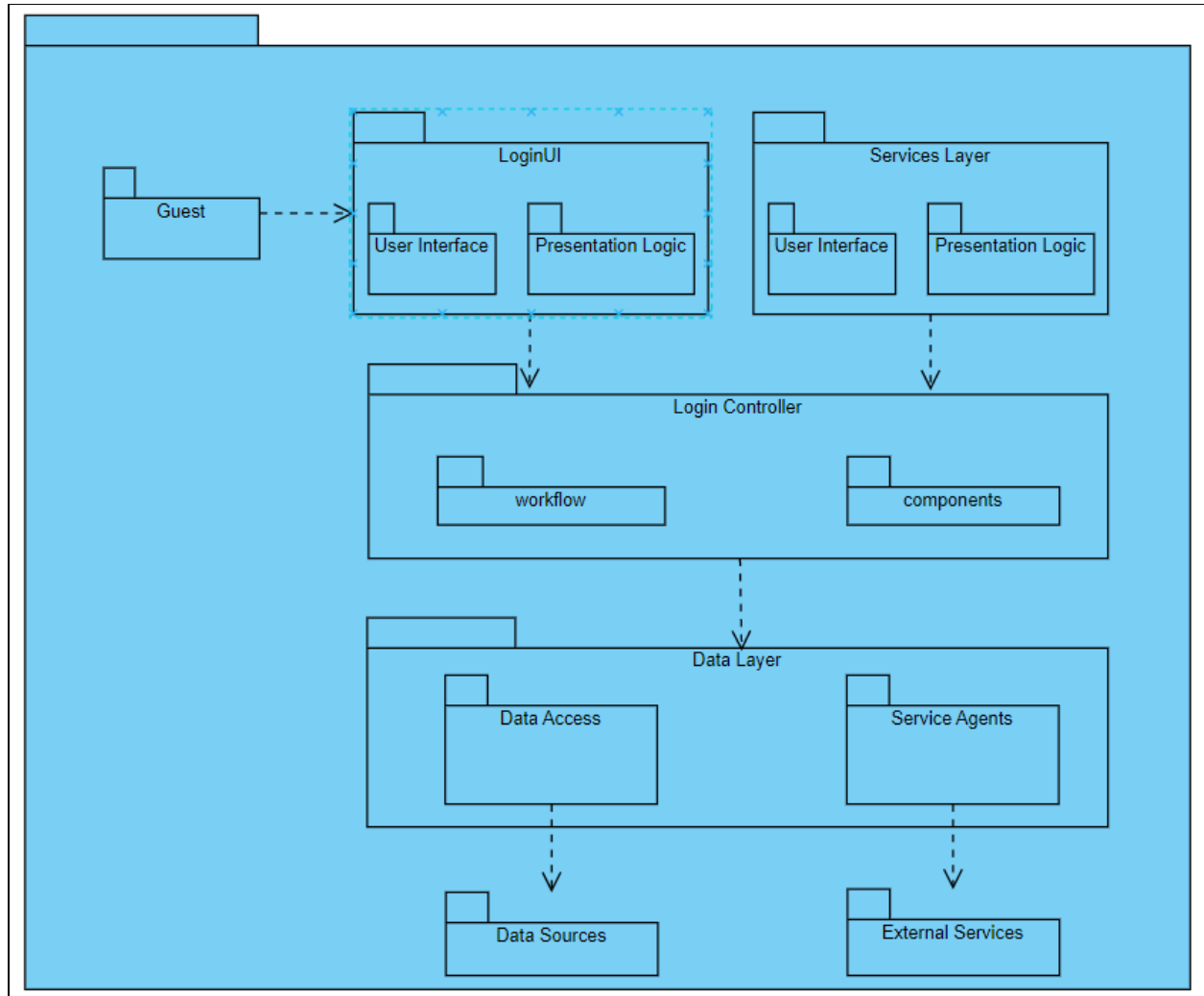
2.5.1.1/ Sequence Diagram for Login



2.5.1.2/ Class Diagram for Login

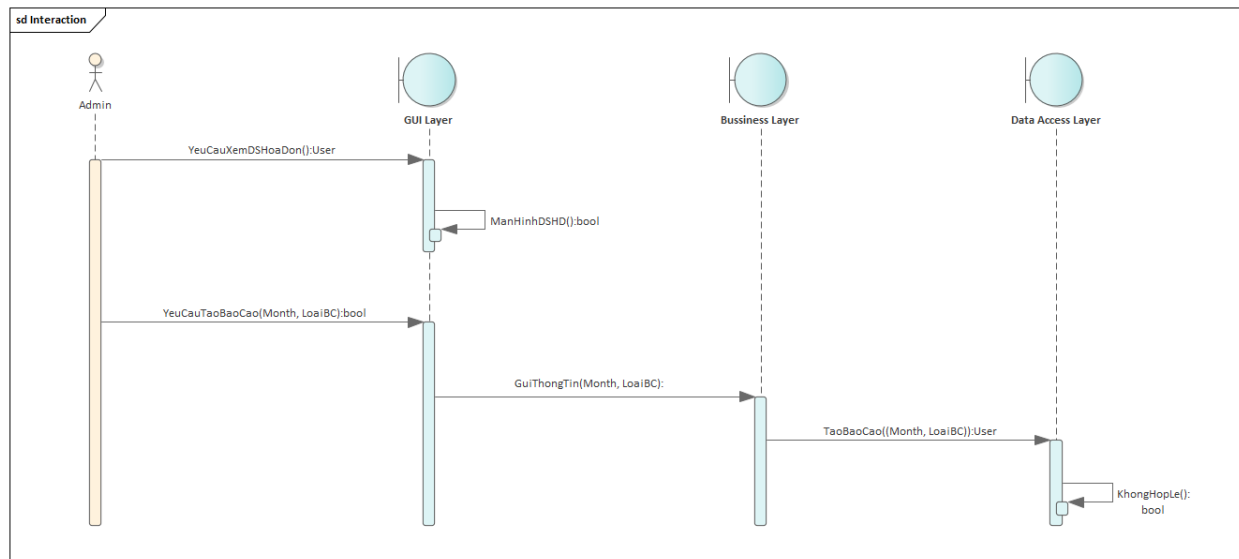


2.5.1.3/ Package Diagram for Login

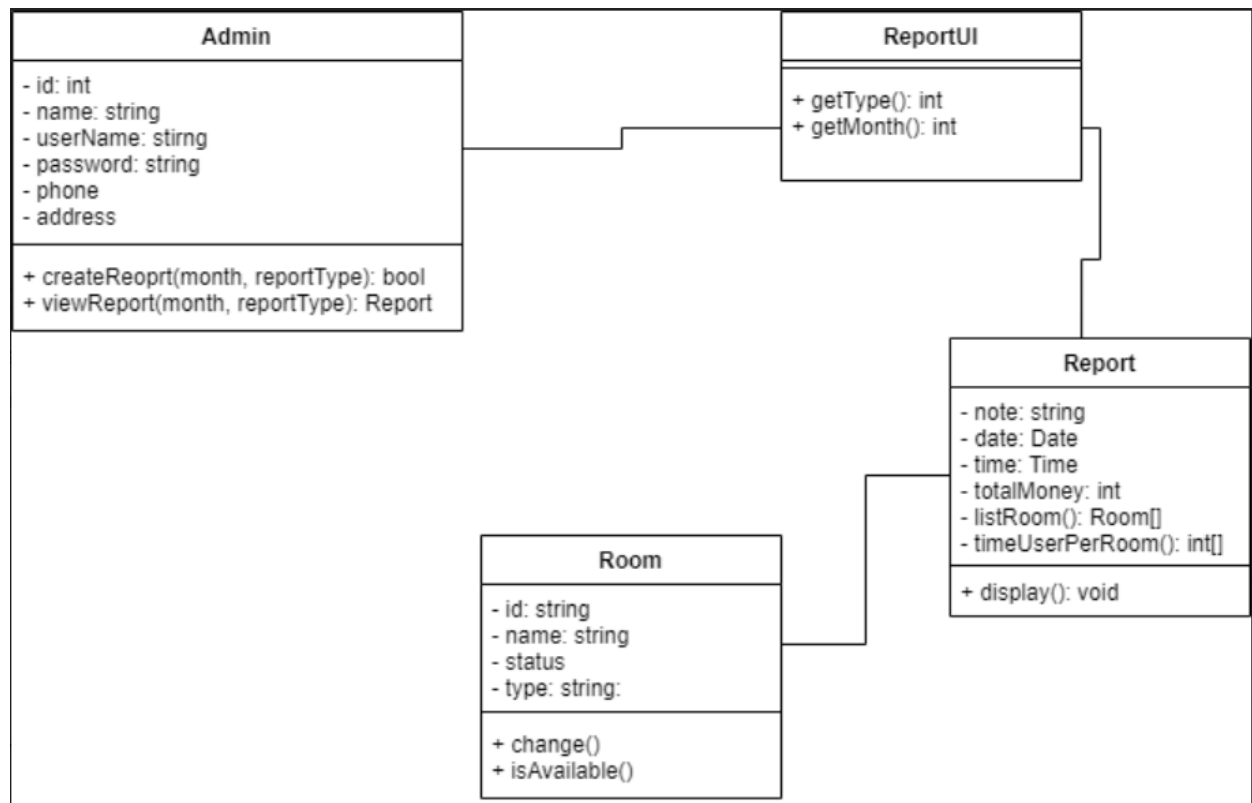


2.5.2/ Sequence diagram for Generating report use case

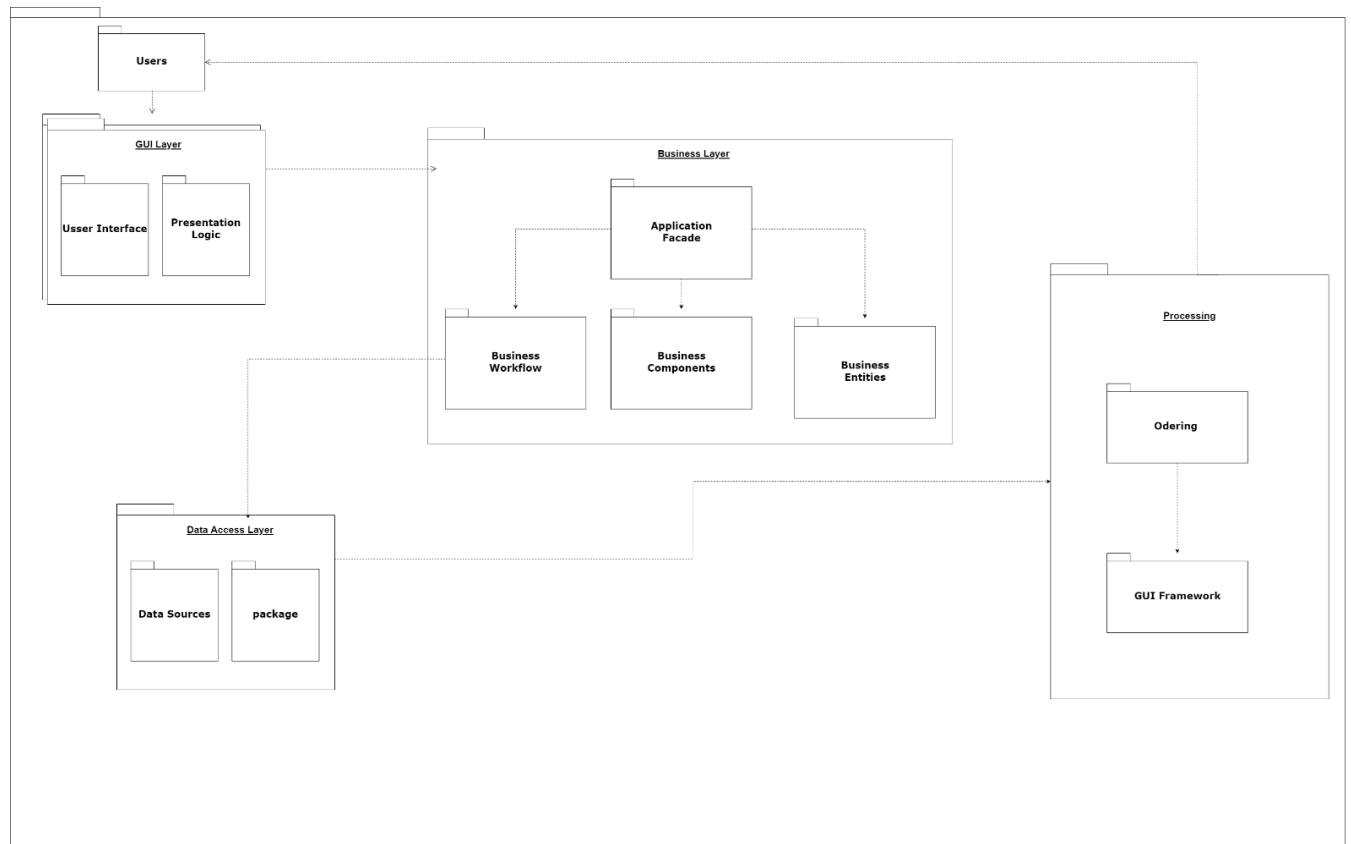
2.5.2.1/ Sequence Diagram for Generating report



2.5.2.2/ Class Diagram for Generating report

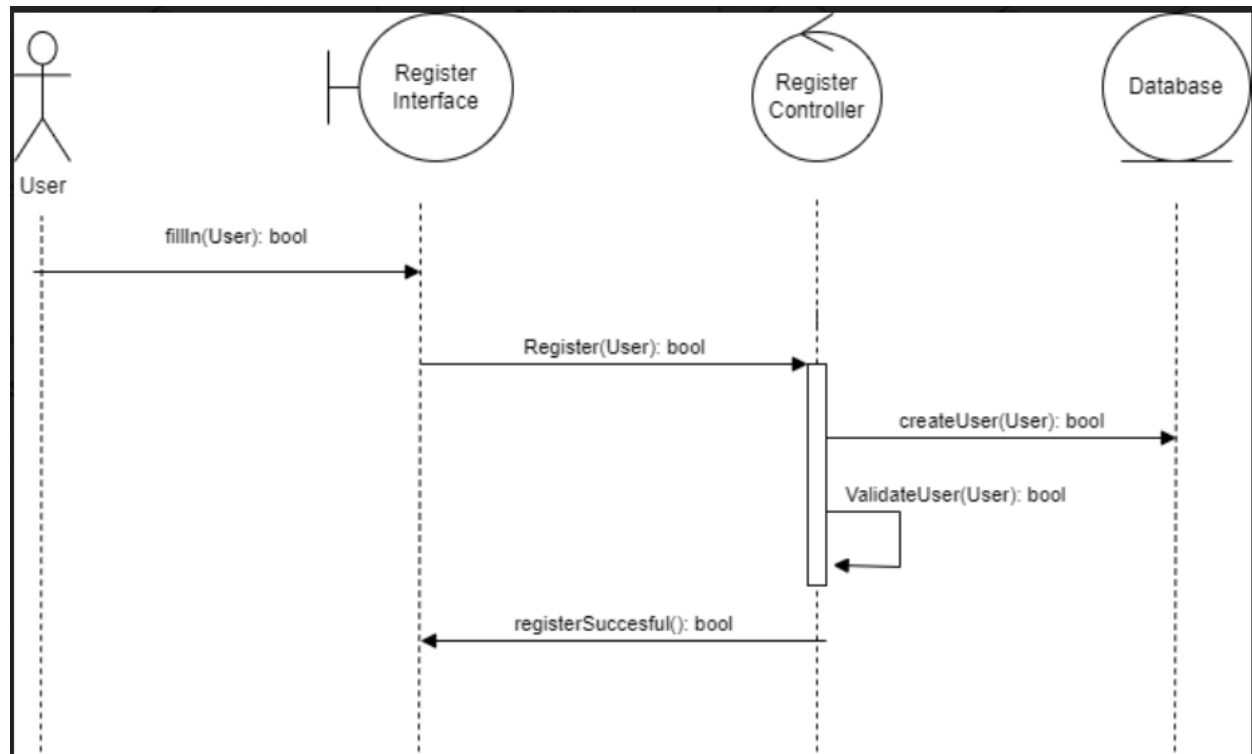


2.5.2.3/ Package Diagram for Generating report

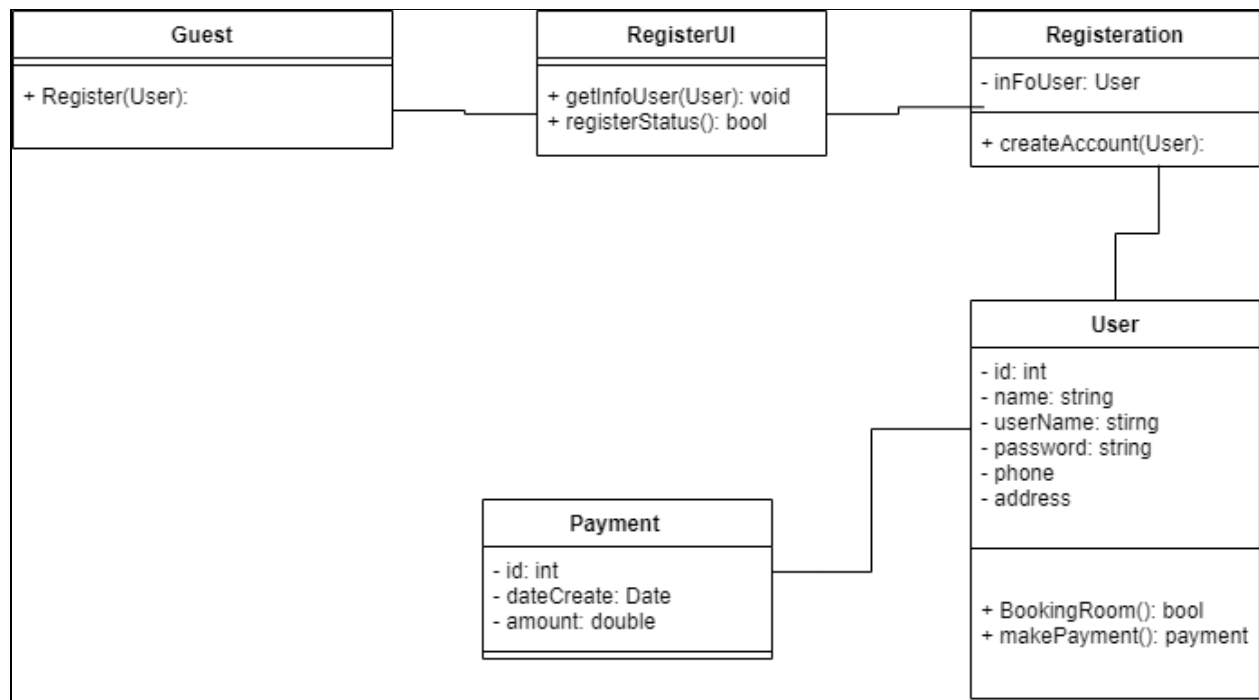


2.5.3/ Analysis For Register Use Case

2.5.3.1/ Sequence Diagram For Register

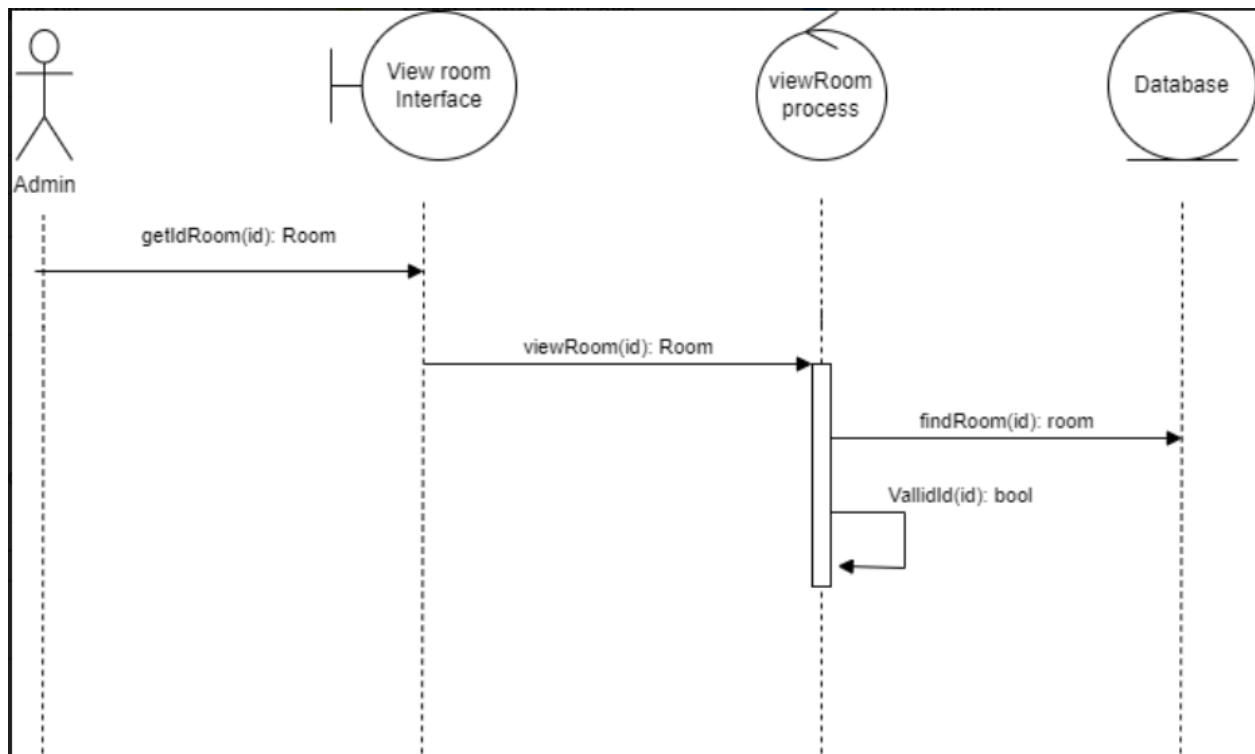


2.5.3.2/ Class Diagram for Register

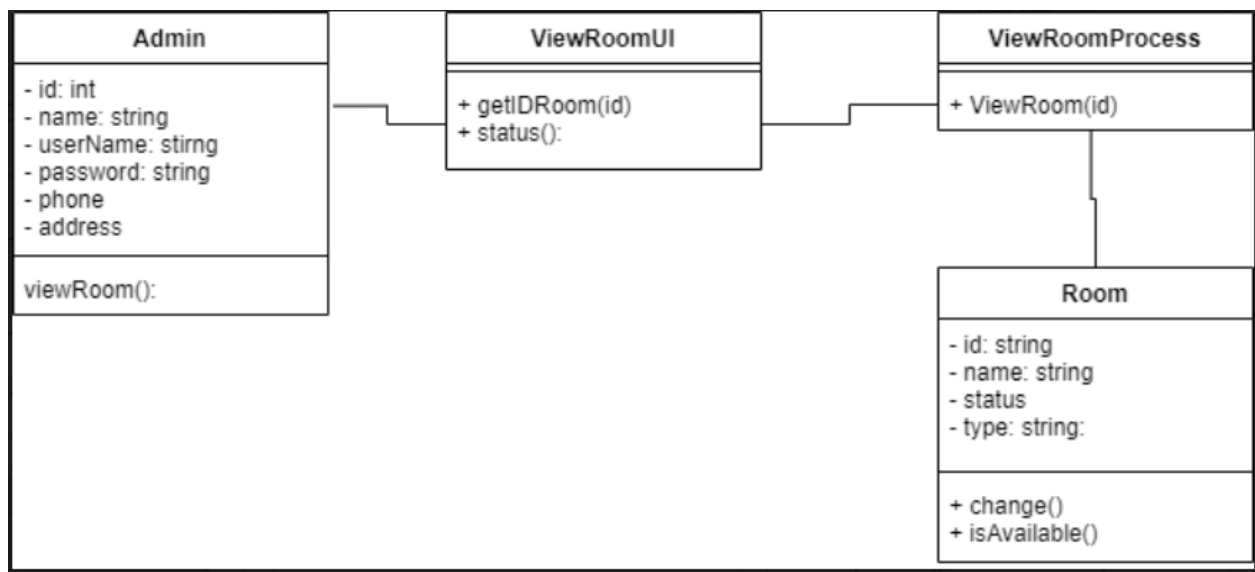


2.5.4/ Analysis For ViewRoom Use case

2.5.4.1/ Sequence Diagram For ViewRoom



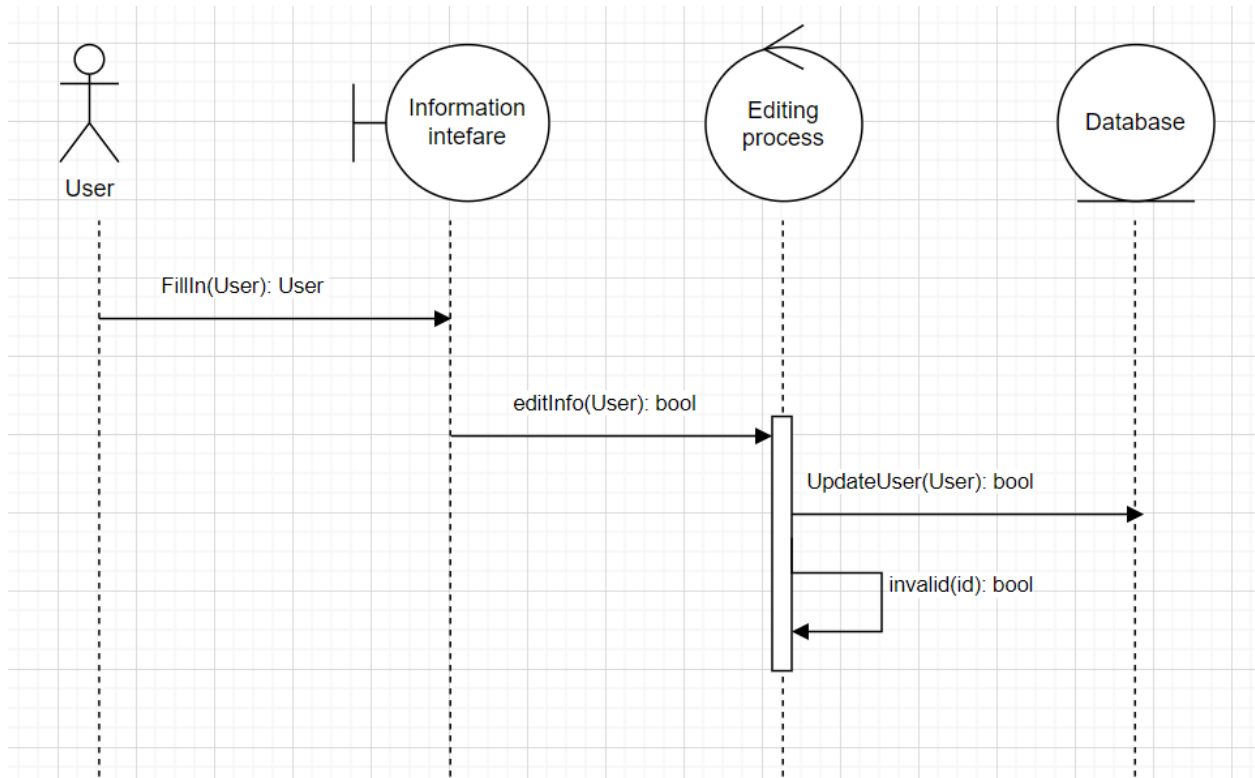
2.5.4.2/ Class Diagram For ViewRoom



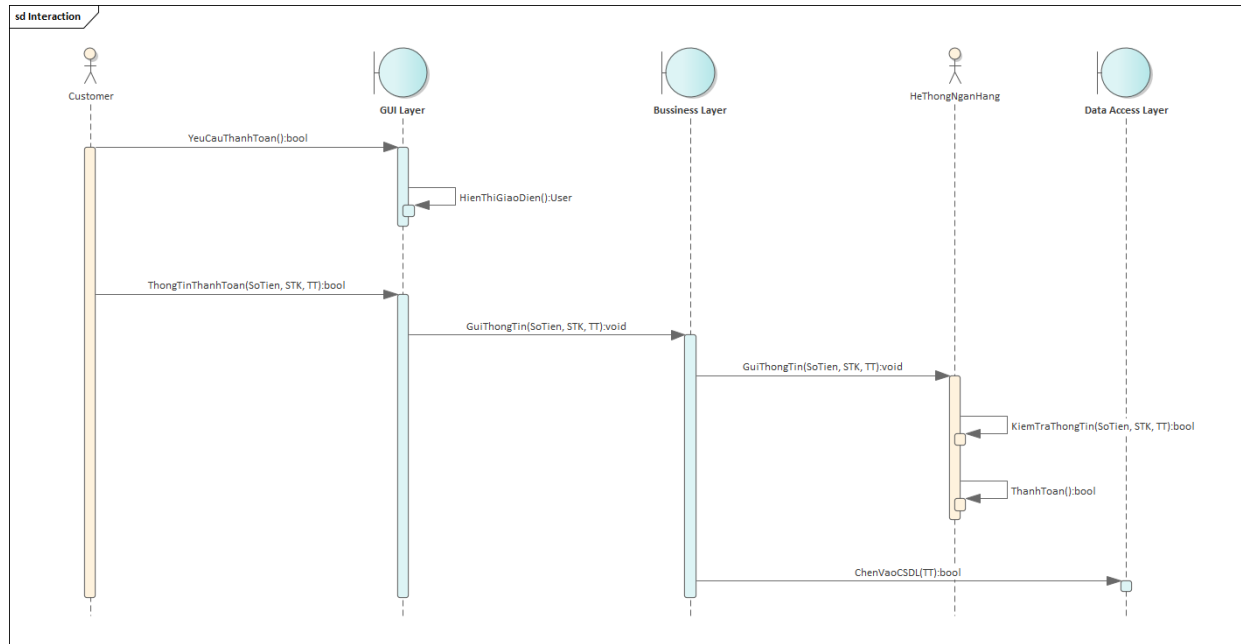
2.6/ 4 + 1 Architectural View Modeling in Analysis Level

2.6.1/ Process / Behavior view

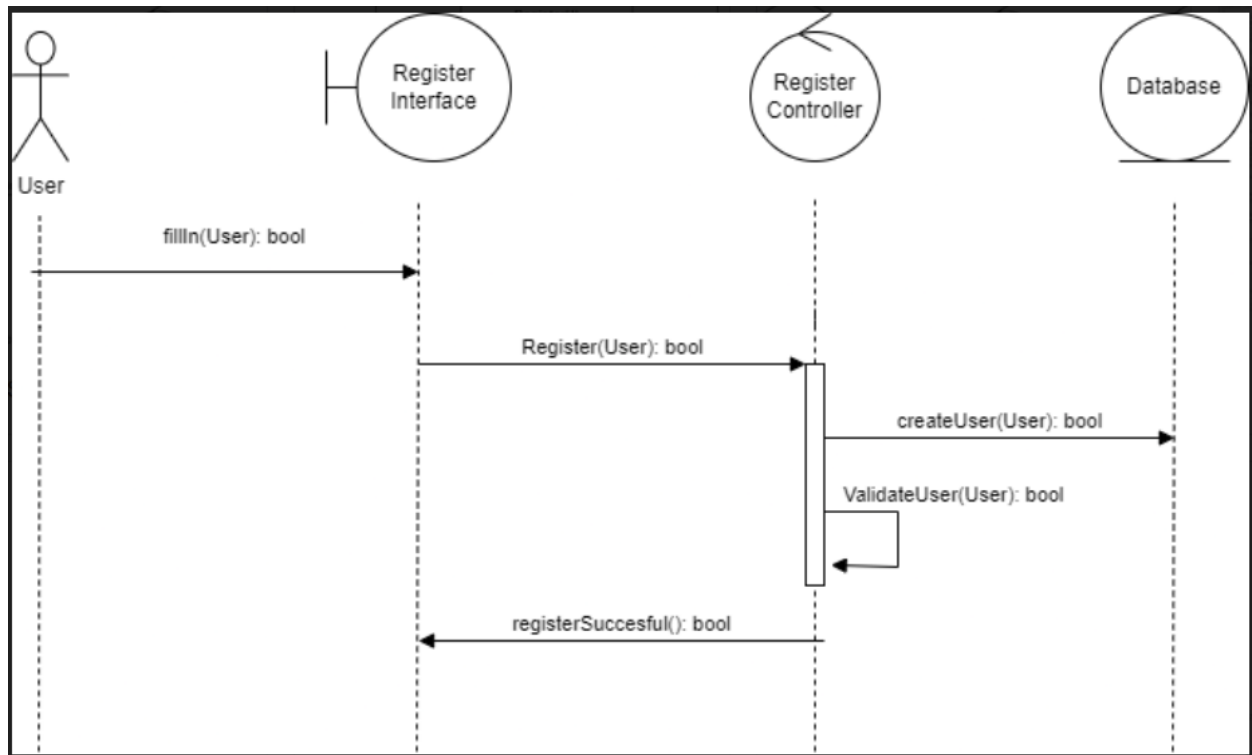
2.6.1.1/ Sequence Diagram



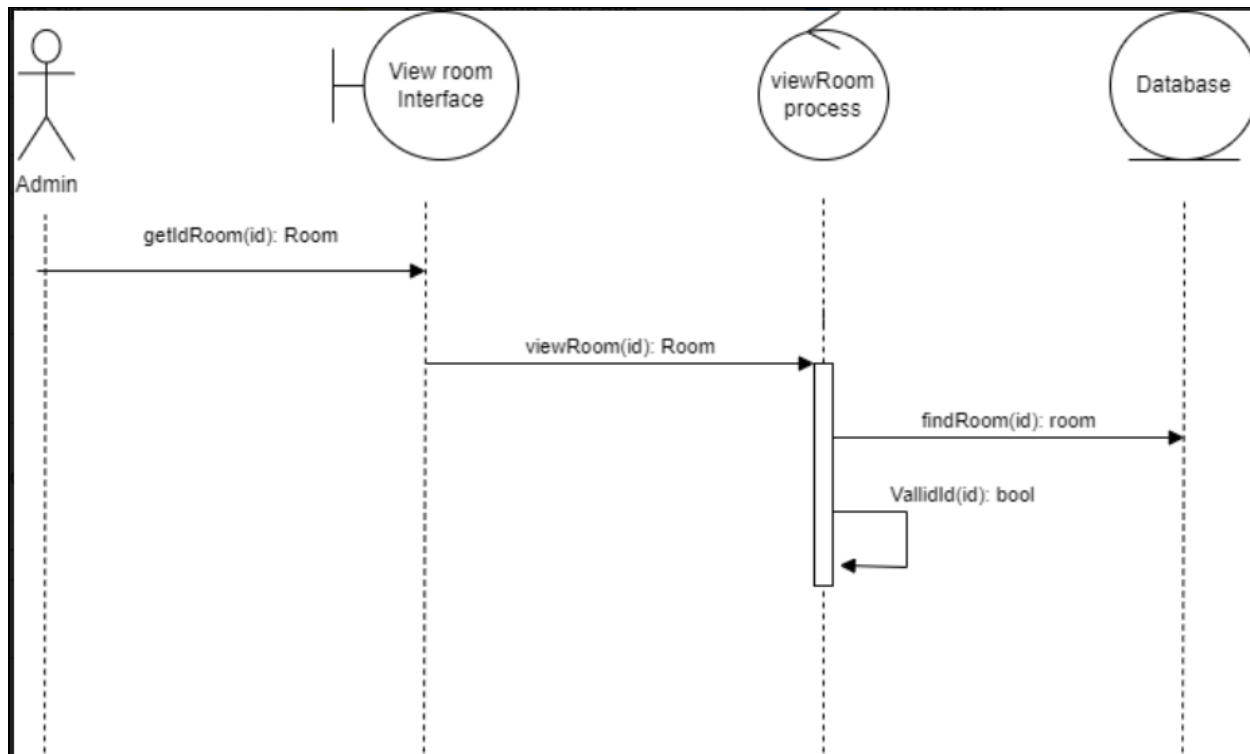
Hình 2.6.1/ Sequence diagram thay đổi thông tin User



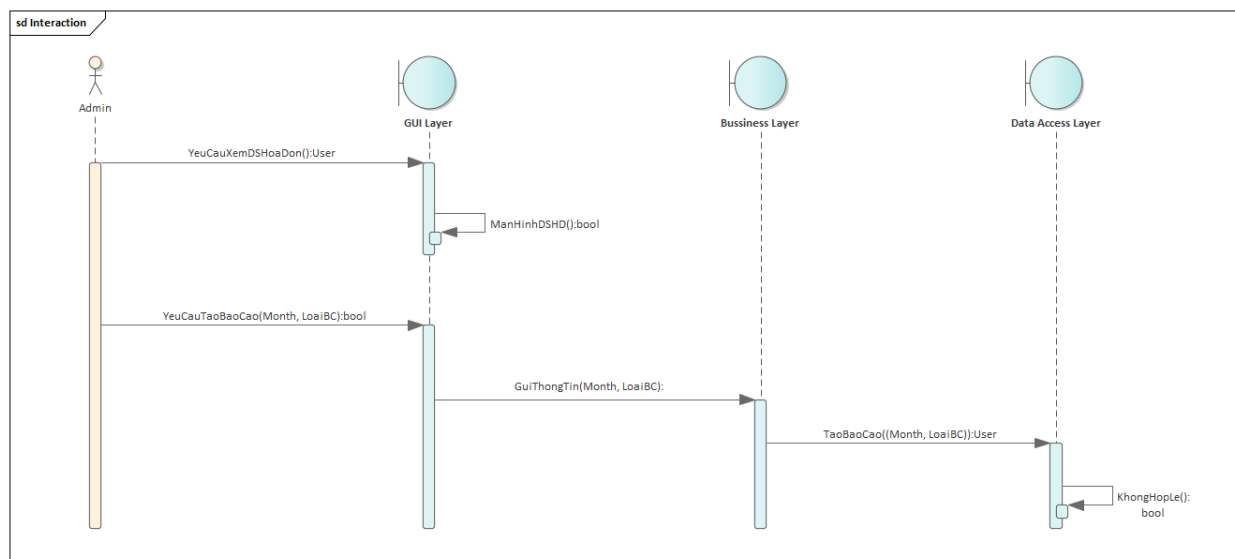
Hình 2.6.2/ Sequence diagram thanh toán (payment)



Hình 2.6.3/ Sequence diagram đăng ký tài khoản (Register)



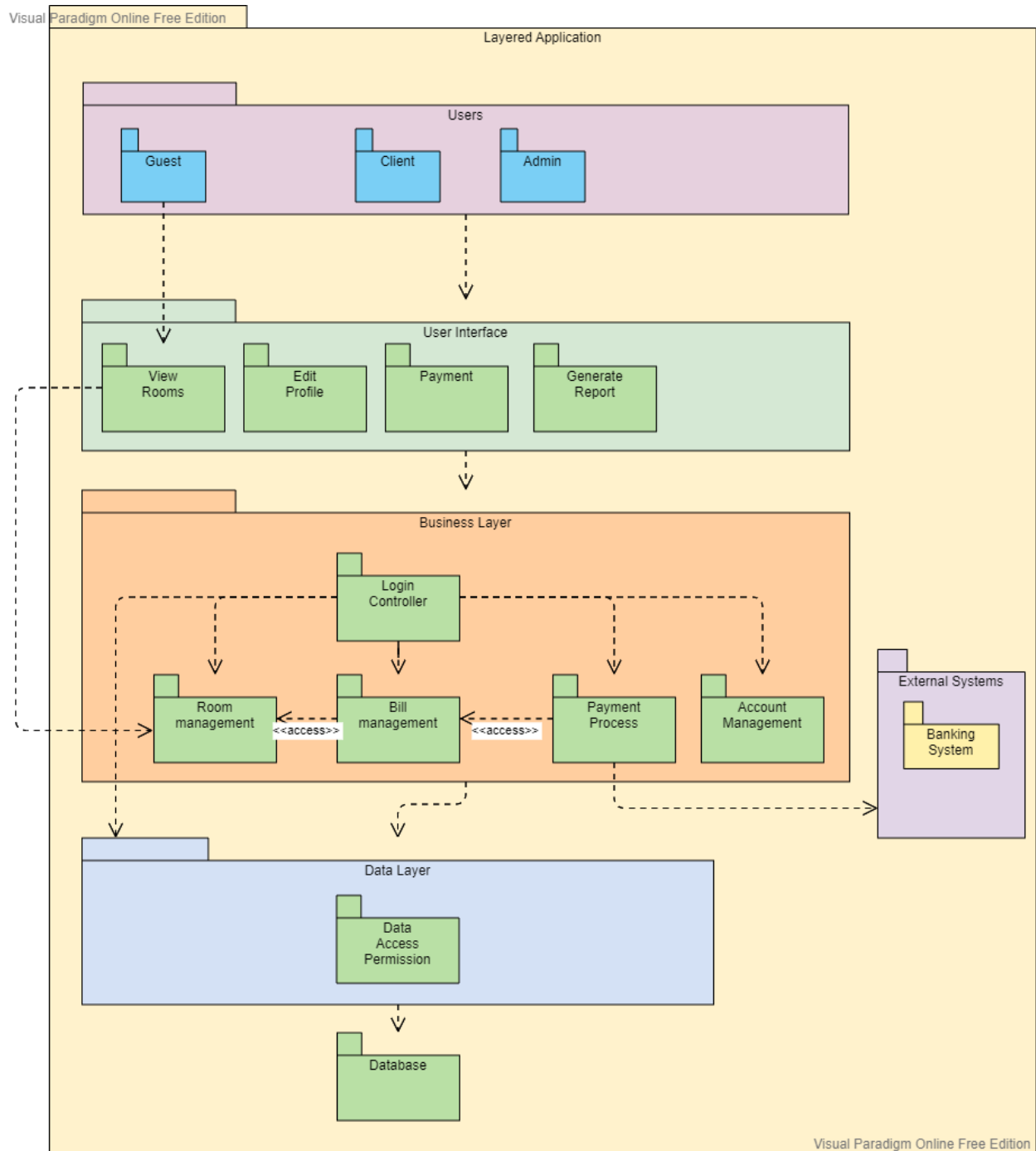
Hình 2.6.4/ Sequence diagram xem thông tin phòng



Hình 2.6.5/ Sequence diagram tạo báo cáo

2.6.2/ Implementation / Developer view

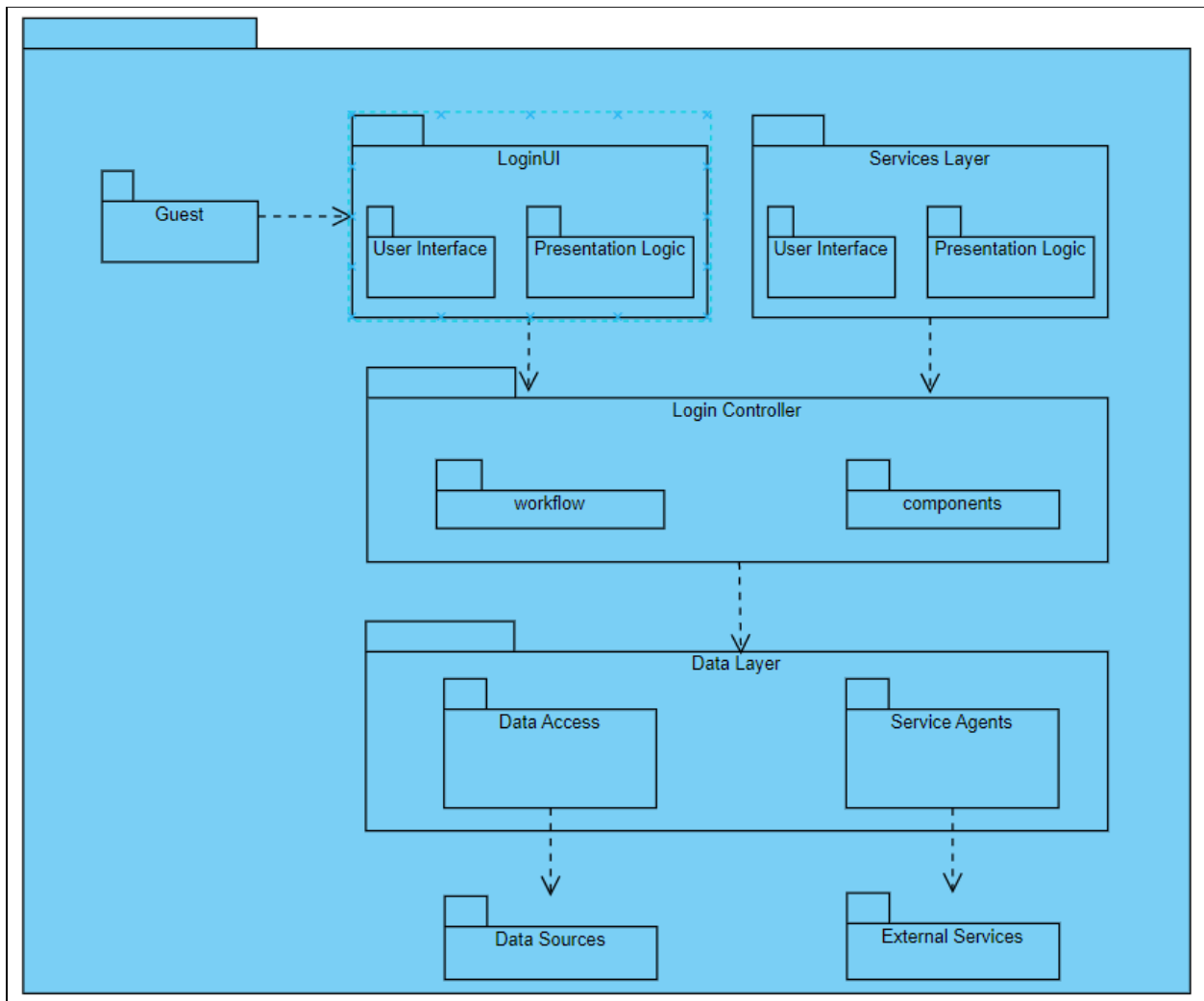
2.6.2.1/ Package Diagram



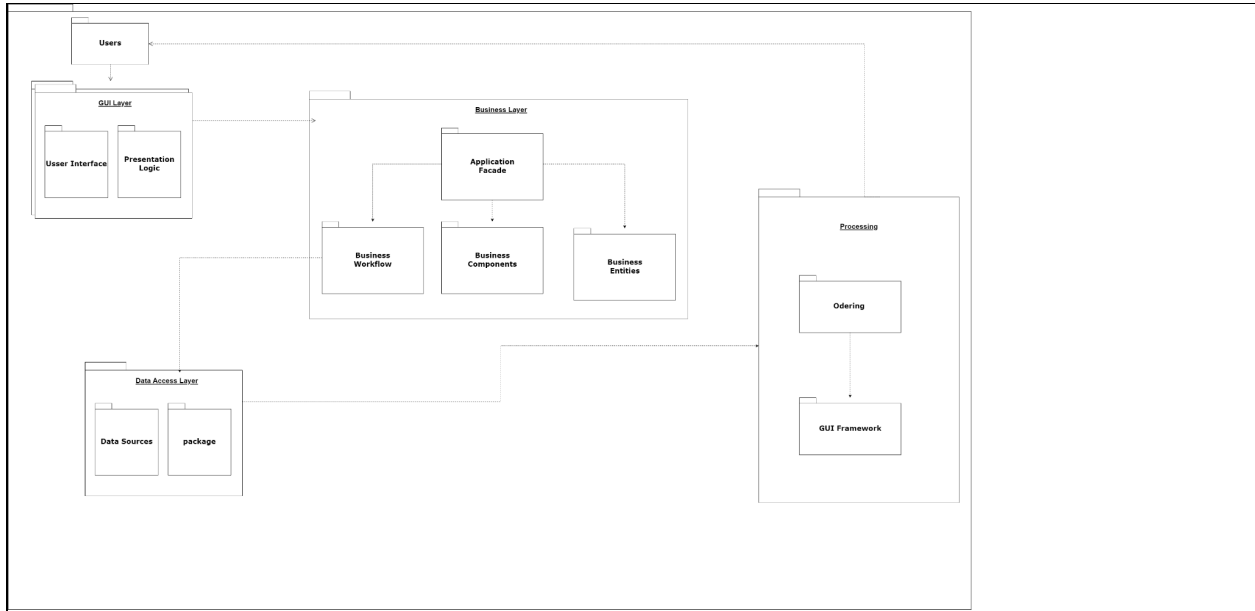
Hình 2.6.2.1: High Level Analysis Package - Level 1 (for system)

2.6.3/ Logical/ Structural view

2.6.3.1/ Class Diagram



2.6.3a) Package diagram cho Login

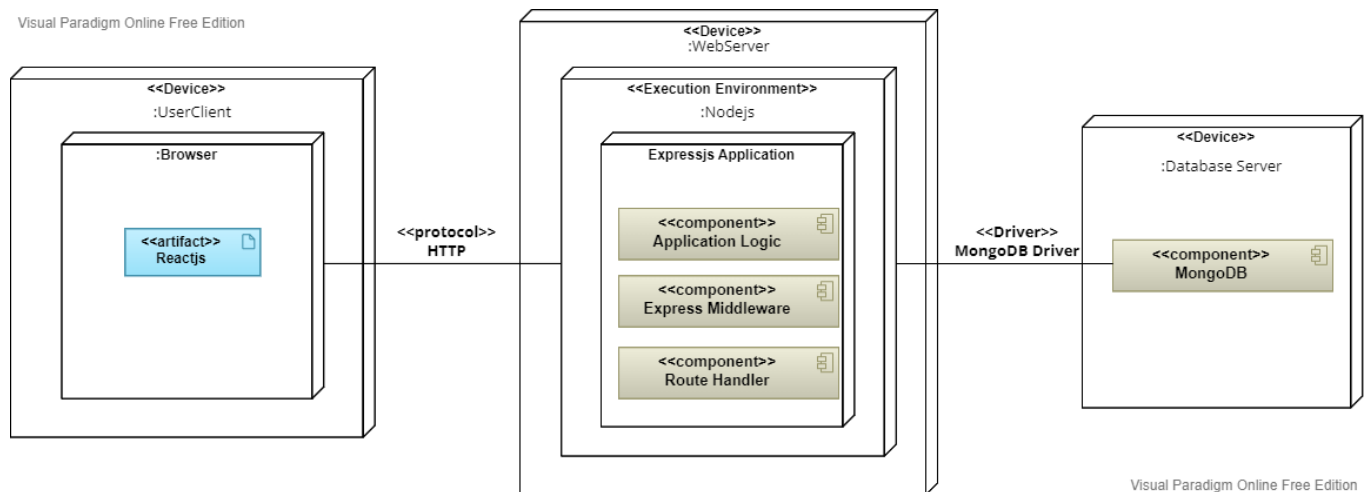


2.6.3b) Package diagram cho Generating report

2.6.4/ Deployment / Physical view

2.6.4.1/ Deployment Diagram

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