



Ministry Of Higher Education
Modern Academy
For Computer Science and
Management Technology
In Maadi



My Hotel

Submitted to

Modern Academy

Computer Science and Management Technology in Maadi

Computer Science Department

Prepared by

Mahmoud Hassan fayd

Eslam Mohamed ragab

Hassan sobhi taha

Eslam mashhor abdelazez

Ahmed Mohamed Ayoub

Supervised by

Dr. Mohamed Awad

Eng. Najwa Aalal

Academic Year :2022/2023

Team Members

Description	ID	Name
Web Developer (Team Leader)	119000614	اسلام محمد عبد المجيد رجب
Web Developer	120000564	محمود حسن عبدالله حسن فايد
Android Developer	120000107	أحمد محمد عفت محمد ابوب
Web Developer	120000204	اسلام مشهور هلال عبد العزيز
Android Developer	120000169	حسن صبحي حسن طه

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We also gratefully thank our "Modern Academy" in general and Dr. "Mohamed Awad" and Eng. "Najwa Aalal" in particular for their supporting and guiding us during the project duration.

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At the end, we must mention that everyone that has helped us to produce this project beginning with those who are working in our academy to everybody outside deserves to be appreciated.

Abstract

The Project MY HOTEL is a web-based application that allows the hotel manager to handle all hotel activities online. Interactive GUI and the ability to manage various hotel bookings and rooms make this system very flexible and convenient. The hotel manager is a very busy person and does not have the time to sit and manage the entire activities manually on paper. This application gives him the power and flexibility to manage the entire system from a single online system. The Hotel Management project provides room booking, staff management and other necessary hotel management features. The system allows the manager to post available rooms in the system. Customers can view and book rooms online. Admin has the power of either approving or disapproving the customer's booking request. Other hotel services can also be viewed by the customers and can book them too. The system is hence useful for both customers and managers to portably manage the hotel activities. The system aims at the maintenance and management of the different Hotels that are available in the different parts of the world. It mainly takes care of the Hotel management at the core area of the database. The system provides the information regarding the different Hotels that are available and their status specific to availability. The guests can visit the site and register themselves with the required information that is expected by the system. Each registered guest can raise a request for the unit bookings. The Guests are scheduled with the information of the availability of the units for they have requested the time.

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1. Chapter One

1.1 Introduction

The world has become a place where there is a lot of technological development, where every single thing done physically has been transformed into a computerized form. Nowadays, people's activities have been transformed into work done by computerized systems. One of which is the main target of this project is about Hotel Management System.

MY HOTEL was developed following system development stages for smooth running and management of my hotel. The seven months provided by the Egypt national examination council enabled the system analyst recognize and define the problem in the current manual system at the hotel. After an information gathering process from several hotels managed by manual and computerized systems, the system analyst saw that the hotel indeed needed a computerized management system. After a close analysis of samples collected during the problem definition stage the analyst found that all the requirements needed for implementation and maintenance of the system are readily available in the market and cheaply affordable by the hotel. The system was carefully designed to ensure maximum efficiency of the system at the hotel. The system was skillfully and carefully coded to seal any possible loopholes in the system. The system was developed using visual basic for applications (Microsoft access) language. This system will indeed help the hotel management and the esteemed staff members to manage and steer the hotel's functionality and transactions to realize its maximum potential in addition to its.

1.2 Problem Definition

The current manual system uses paperwork and direct human language communication by mouth to manage the hotel. This delays information transmission in the hotel.

Booking is done through phone calls or through visit to the hotel booking office.

The guest's personal details such as Name, Age, Nationality, and Duration of stay, are input during booking in. The booking office orders for preparation of the guest's room before his/ her check in date. The documents are transferred manually to the filling department for compilation of the guest's file. On the reporting date the file is transferred to the reception. On checking in the guest is given the key to his allocated room, he also specify if he needs room service. The receptionist hands over the guest's file to the accountant on the next table. Here the guest pays accommodation and meals fee. The guest's file is updated on daily basis of his expenditure costs. The accounts department generates the bills on daily basis and delivered to the guests in their rooms at dusk by the service maids. The guest pays at the accounts desk, where the receipts are generated. For a one meal customer the bill is generated immediately after ordering and he pays at the accountant desk before leaving. During checking out of guests, their expenditure outlines are generated a day before check out date. The guests receive their outlines at the accounts desk as they check out, where they pay for bills balances if any.

1.3 Solving of the Problem, Objectives

- enable online booking via the internet.
- enable automated data entry methods.
- Ensure efficient and reliable communication within the hotel.
- Avoid data entry errors by use of input masks.
- Enable easy authorized modification of data.
- Enforce security measures to avoid unauthorized access to guest records.
- Enable fast and easy retrieval of guest records and data for fast reference activities.

1.4 Scope

All room kinds and room services are managed by the management system. All hotel inventories will be monitored by the inventory control system, and guest information will be managed by guest management. Administration will keep an eye on everything. For HMS, there are three end users. Owner, Manager, and Receptionist are the end users. Owner has full, unrestricted access to all system features. Managers have limited restrictions and full access to all system features. Only the Reservation management area is accessible to receptionists.

Different Login functions can be created by HMS in order to maintain constraints for each End User level. The automated Hotel Management System's goals include streamlining the hotel's daily operations. The system will be able to manage a variety of services to quickly take care of all customers. This programme will be employed as a remedy for the substantial volume of file handling occurring at the hotel. The development team will highlight some advantages of this system, including security, usability, and—most importantly—the effectiveness of information retrieval. The system should be user-friendly, simple to use, allow for easy error recovery, and give high levels of overall end-user subjective satisfaction.

1.5 Tools

We used different programming language for developing our website like

- HTML (Hypertext Markup Language) is the standard markup language used to create web pages. It provides a structure for content, such as text, images, and multimedia, and allows developers to create links between pages[14].
- CSS (Cascading Style Sheets) is a stylesheet language used to style HTML content. It provides a way to control the layout, colors, fonts, and other visual aspects of a web page[14].
- JavaScript is a programming language used to add interactivity and dynamic behavior to web pages. It can be used to create animations, handle user input, manipulate the DOM (Document Object Model), and interact with web APIs[14].
- PHP (Hypertext Preprocessor) is a server-side scripting language used to

create dynamic web pages and web applications. It can be used to process form data, interact with databases, and generate dynamic content based on user input[14].

- Laravel: is a PHP web application framework that provides tools and libraries for building web applications. Laravel is known for its elegant syntax, robust features, and clear documentation jQuary
- Etc...

1.6 The Layout

The thesis is organized as follows:

1. Chapter 1: Introduction: Introduces the proposed approach of the thesis and describes its idea.
2. Chapter 2: Related Work: The related work section discusses what the other researchers did.
3. Chapter 3: System analysis: understanding and studying the requirements of a software project. It involves gathering and analyzing information, defining system functionalities, identifying constraints, and documenting user needs
4. Chapter 4: Implementation: the software solution is actually developed and deployed. It involves writing code, creating databases, designing user interfaces, and integrating various components to bring the software project to life.
5. Chapter 5: Results and discussion: In this chapter, we show the results of the proposed algorithms.
6. Chapter 6: Conclusions and Future work: Concludes the thesis and summarizing its contributions. Also, possible future directions of research in the context of the thes is are commented.

2. Chapter

Two

2.1 Related Works

In this “Hotel Management System”, users can easily find a room around the world. Also, can make registration and Login to our website. There are several services like that but we worked on a very specific term.

We will make sure with the premium quality of room and also a high-quality performance with a high-quality database and easy to use for all. Also, we ensure the security of users and their information. Users' passwords will be encrypted so that only they can access.

2.2 Comparative Studies

Our " Hotel Management System " is not like other Hotel Management System in terms of implementation. Where users can view different rooms and prices without logging in, but must log in with a special username and password to reserve a room.

To book a vehicle, any user can log in and sign up at any time. Users and administrators will find it easier to make requests. It does not take any time. And it is a rapid and user-friendly system which any one can use it easily.

2.3 Scope of the Problem

It is a service that allows users to book a room for one or more days.

Admin has the ability to add, delete, and update rooms.

Admins can add new categories and add new rooms to them.

Users can quickly register an account and log in, after it they will have access to all rooms.

Users can use either the application or website to access all their features.

2.4 Challenges

2.4.1 Competition has become more intense

Newcomers can provide a significant challenge to the auto hotel booking app. The business of the traditional and well-known players is influenced by the newcomers. Existing players' only option for dealing with this problem is to keep evolving. It is time for hotel booking services, like every other industry, to embrace technology. They will be able to stay up with the latest trends thanks to greater use of technology and constant evolution, concepts, and differentiation of the brand.

2.4.2 Booking and pricing management

If your management system is complicated and difficult to use, you may have trouble handling bookings, keeping track of them, and determining how much money you've made. This is particularly difficult for local hotel booking providers that have yet to incorporate any technology. This could become an issue for these established players over time. Breaking down the pricing structure in a readily clear and accessible manner is one strategy to engage new clients. Your firm will evolve as a whole if you offer better deals and plan on automating the hotel booking service with hotel booking management software. Using mobile and website for booking and rental services might save you a lot of money.

2.4.3 Brand awareness

If you're a newcomer to the market, your customer conversion rate is likely to be poor, and you'll face stiff competition. Analyze and serve specific markets with specialized hotel booking, as well as a highly narrow target audience. To get people's attention, you'll need a strong online presence and the ability to communicate with them through relevant postings and messages.

3. Chapter Three

3.1 Requirements & Analysis

Some simple but essential specifications are acquired during the program's implementation and data collection.

3.1.1 Functional Requirement

- The main purpose of system is book hotel room.
- The user must have an account to be able to book a room.
- To make an account, user must provide his name, email address, password and phone number.
- The user must enter a valid email address when registering to verify his account.
- The ability to remove a user if the administrator wants it.
- Admins of organizations have the ability to add, update, and delete room from their account.
- The room will appear according to user location, where the closest hotel lease is put in first.

3.1.2 Non-Functional Requirement

- Users Must Sign Up with email, mobile phone and password for security reasons.
- The system must run efficiency on two platforms (Mobile application and website).
- The system must have a good UI/UX on both platforms.
- The website must have an easy interface thus, any company admin can deal with it easily.
- The system interface language in English.
- The system must accept updates and modifications over time.
- The system provides a very good performance all the time.

3.1.3 Hardware requirements

3.1.3.1 Android

- Device capabilities: touch screen, Internet connectivity and GPS connectivity
- RAM: 1GB, preferably higher
- CPU: 1.0 GHz minimum, dual-core
- Disk: At least 10 GB

3.1.3.2 Website

- Computer: 1 GHz minimum, dual-core processor
- Memory (RAM): At least 1GB, preferably higher
- Hard disk space: At least 10 GB

3.1.4 Software requirements

3.1.4.1 Android

- Operating system: Android
- API level: 21
- Android Version: 5.0 (Lollipop)

3.1.4.2 Website

- Operating system: Windows Server 2012 R2 or above
- Browser Compatibility: -
 - Microsoft Edge
 - Mozilla Firefox
 - Google Chrome

3.2 Business Process Modeling

“hotel management System” Information Process Modeling. In our hotel booking Services, we have made a processing model. By that we can understand allthe process of our hotel booking system from the user's point of view. Here is the given below:

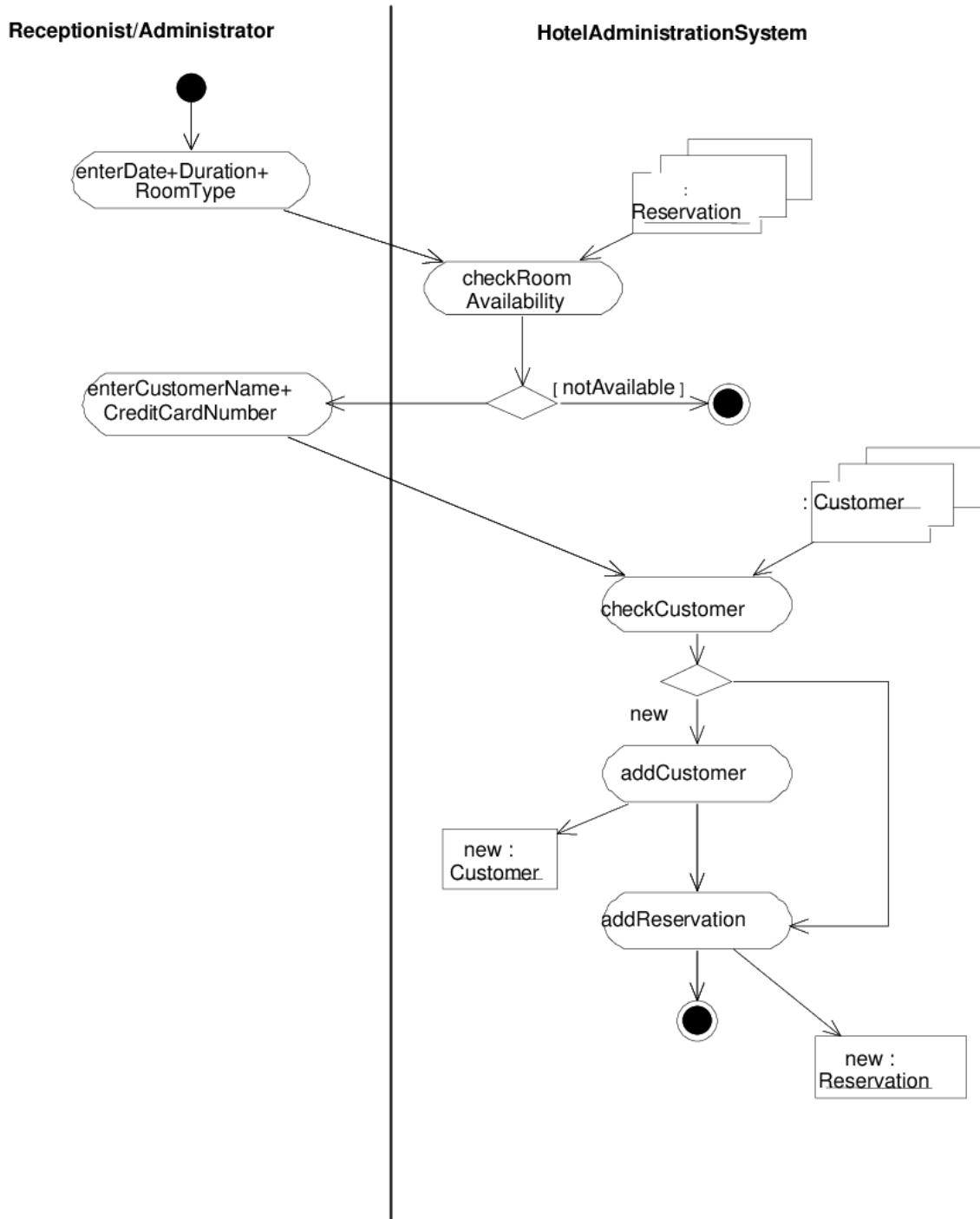


Figure 3–1 Process Modeling Diagram

3.3 UML Diagrams

3.3.1 Use Case Diagram

The purposes of use case diagram can be said to be as follows

- Used to gather the requirements of a system.
- Used to get an outside view of a system.
- Identify the external and internal factors influencing the system.
- Show the interaction among the system and actors.

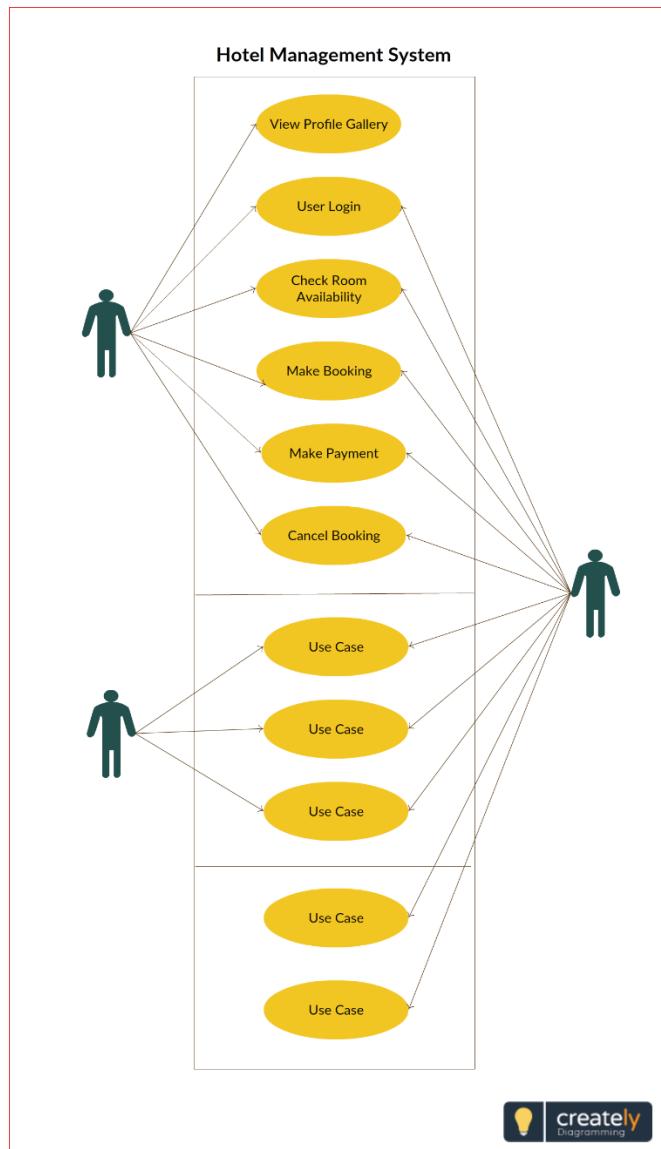


Figure 3–2 Use Case Diagram

3.3.2 Sequence diagram

It explains how and in what order a collection of items interacts, a sequence diagram is similar to an interaction diagram. A sequence diagram focuses on lifelines, or concurrent processes and objects, and the messages that are passed back and forth to complete a function before the lifeline terminates.

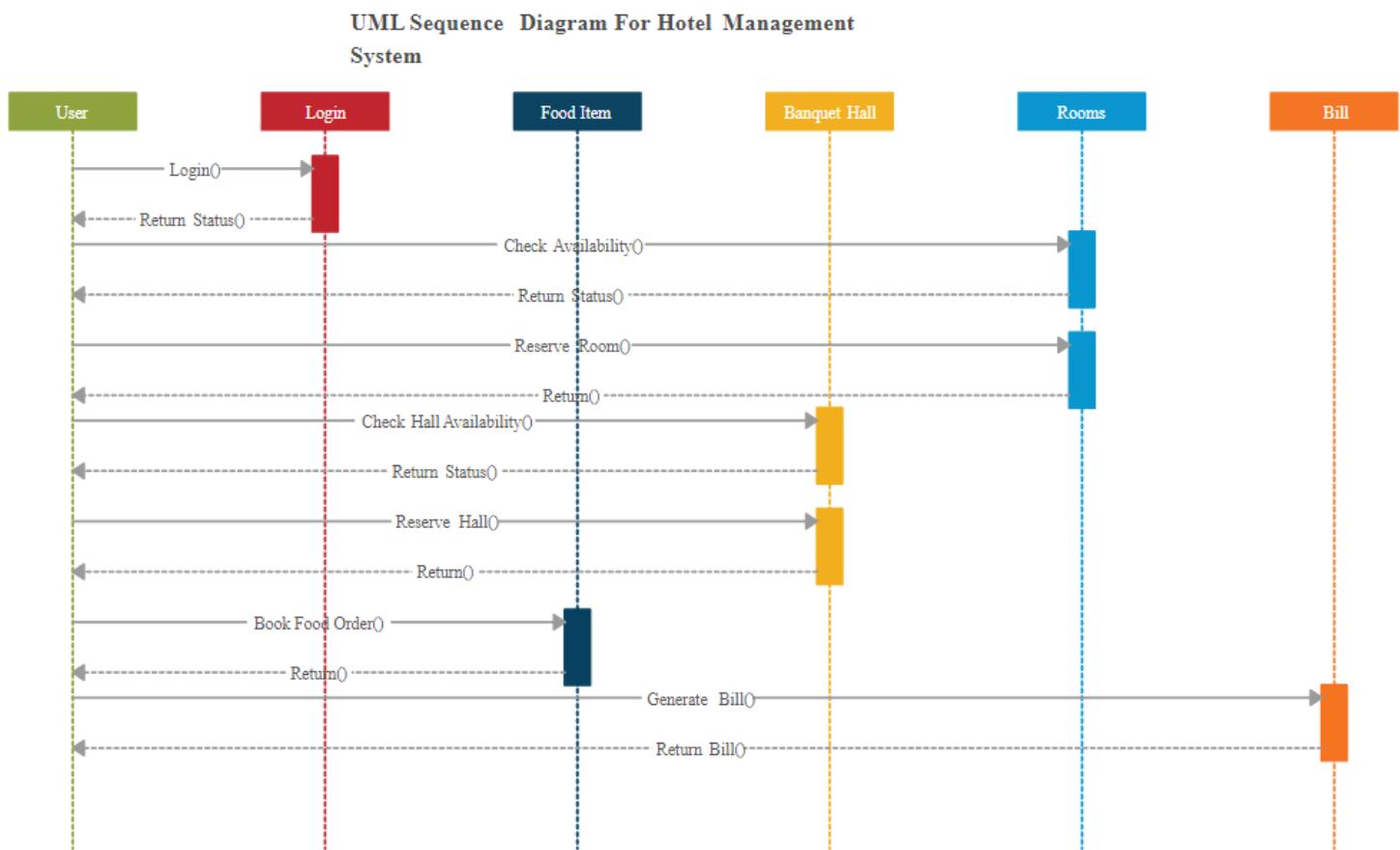


Figure 3–3 Sequence Diagram

3.3.3 Activity diagram

It shows the system's main operations and restrictions, which lead to the project's pathways. They were classified to inform programmers and users about the conduct of hotel management System.

Software operations are also depicted as a set of actions in the activity diagram. These diagrams are used to describe and define system processes and use cases. It has the potential to simplify and improve any process by highlighting difficult use cases. An activity diagram also shows the system's actions, functions, and processes.

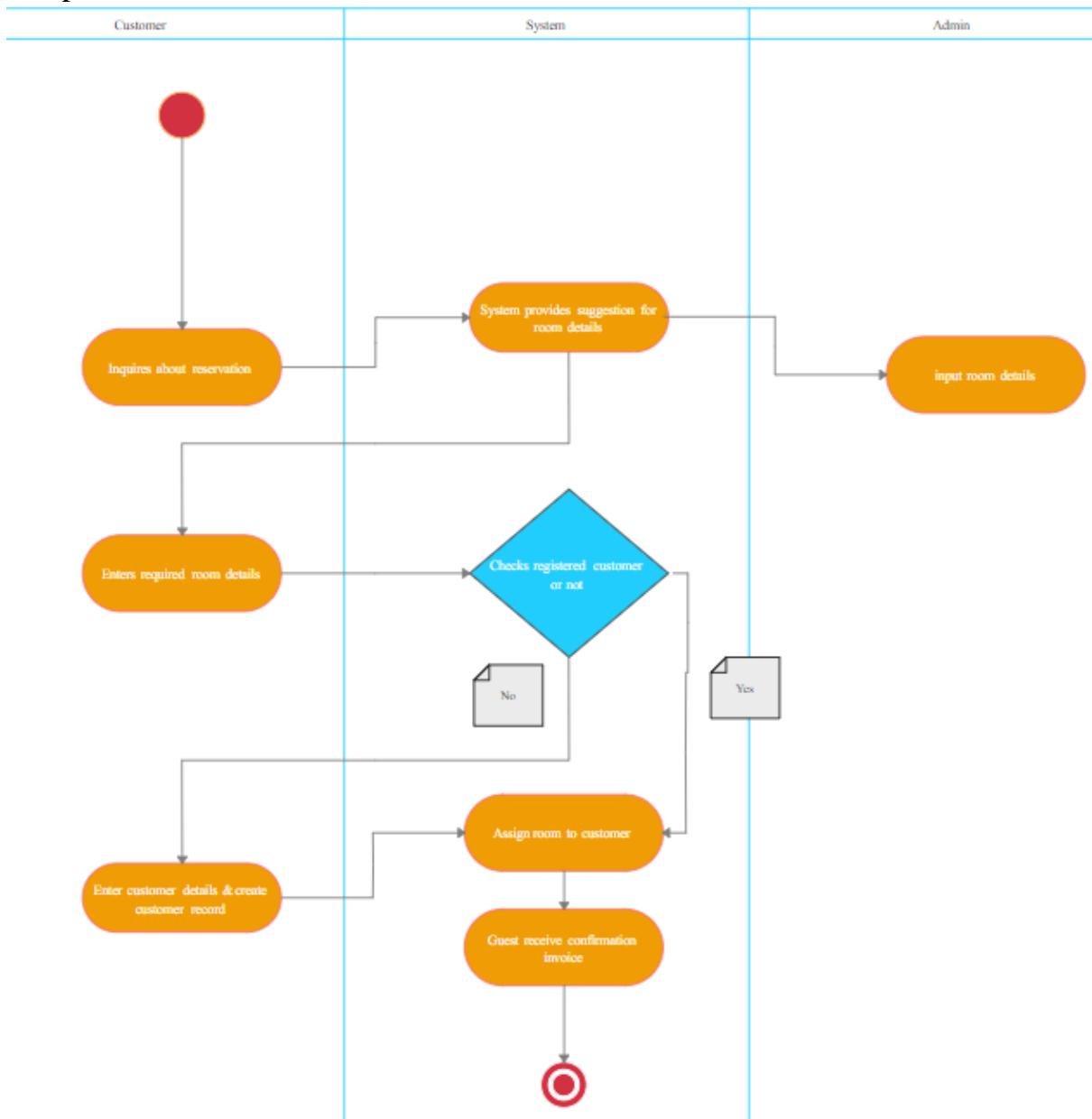


Figure 3–4 Activity Diagram

3.3.4 ERD

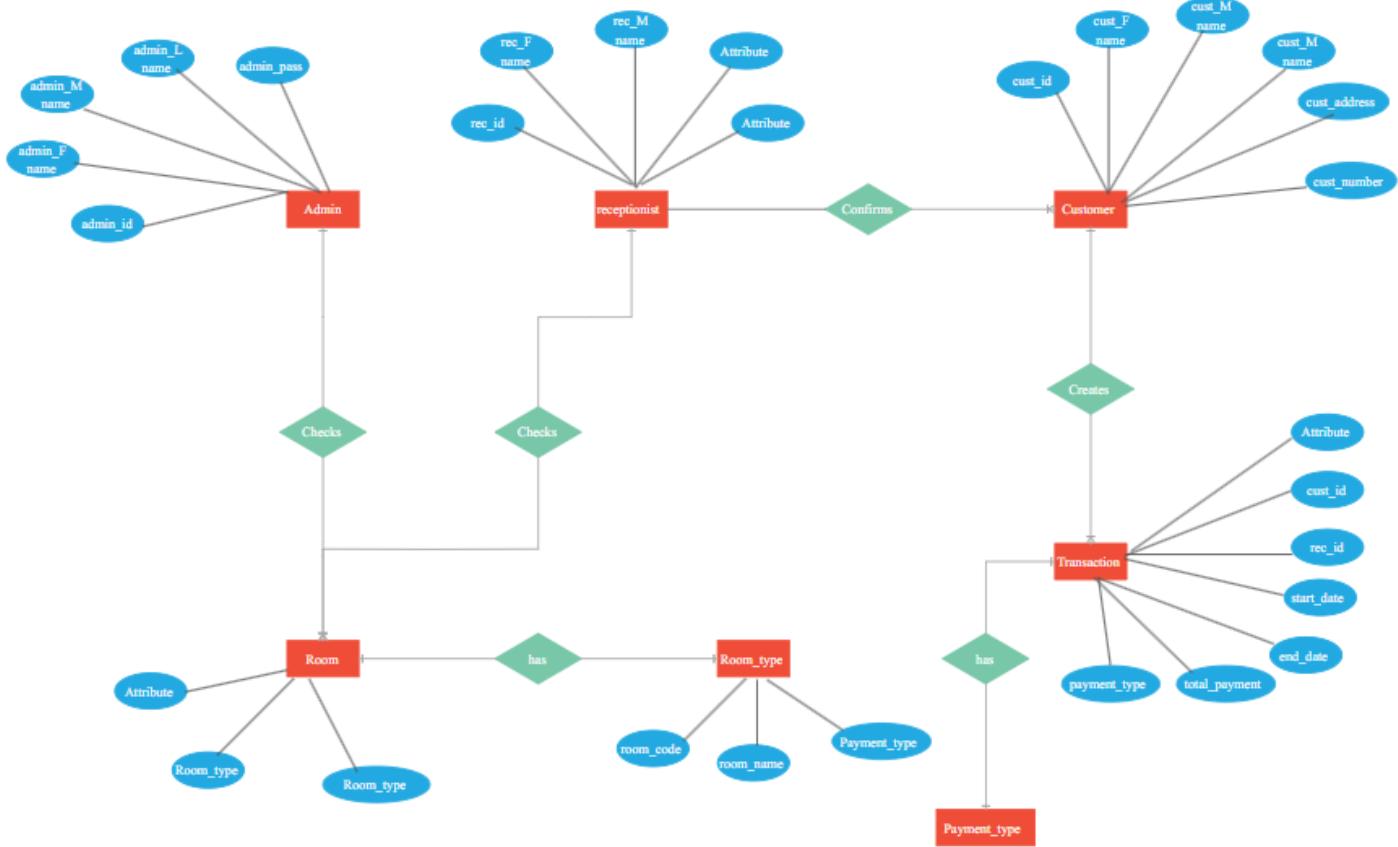


Figure 3–5 ERD

3.3.5 Class Diagram

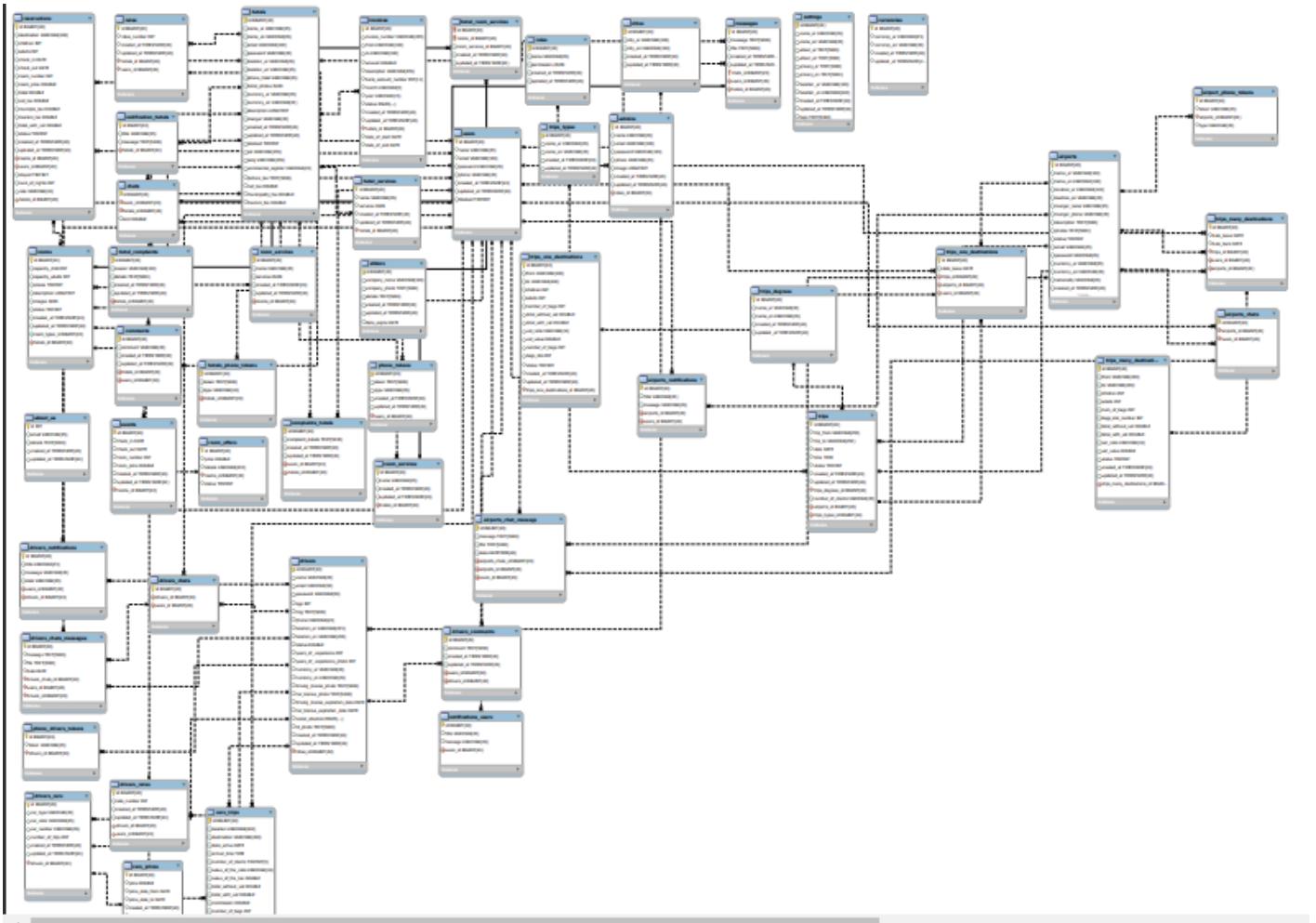


Figure 3–6 Class Diagram

4. Chapter Four

4.1 Design

This chapter introduces the design of the Hotel Management System. And what is the approaches and technology used to construct this framework were used.

4.1.1 Web

4.1.1.1 Front-end Design

The user interface is designed to work at the presentation level. It is the user's only means of interacting with our tariff system. The most crucial aspect of web system development is the external interface.

The client zone refers to the external interface. The goal of site creation is for people to be able to read and condense information quickly when they visit the site. Web front development, also known as client-level development, is the process of creating web pages using some technologies like:

- **HTML**

Hyper-Text Markup Language is the standard markup language for pages that are designed to be viewed on a web browser. Technologies such as Cascading Style Sheets (CSS) and programming languages like JavaScript can improve it to make a full website.



- **CSS**

Cascading Style Sheets is a style sheet language for describing the style of a document written in a markup language like HTML. CSS, along with HTML and JavaScript, is a key component of the World Wide Web.



- **JavaScript**

Is a dynamic programming language that's used for web development, in web applications, for game development, and lots more. It allows you to implement dynamic features on web pages that cannot be done with only HTML and CSS.



- **Bootstrap**

Is a free and open-source web development framework. It's designed to ease the web development process of responsive, mobile-first websites by providing a collection of syntax for template designs. In other words, Bootstrap helps web developers build websites faster as they don't need to worry about basic commands and functions. It consists of HTML, CSS, and JS-based scripts for various web design-related functions and components.



- **jQuery**

The purpose of jQuery is to make it much easier to use JavaScript on your website. jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish and wraps them into methods that you can call with a single line of code. jQuery also simplifies a lot of the complicated things in JavaScript, like AJAX calls and DOM manipulation. The jQuery library contains the following features:

- HTML/DOM manipulation
- CSS manipulation
- HTML event methods
- Effects and animations
- AJAX



- **Font Awesome**

Font Awesome is a web-font that allows you to use the icons as a character. With this web-font, we can use an icon, such as a text character. Thus, this font provides solutions to many problems that we experience in images. Previously, if we wanted to add an icon, we would save it as an image. Then we would add this image to the places we wanted to use it. Font Awesome publishes many icons that we may need and are ready to use. Font Awesome publishes many ready-to-use icons that we may need. Besides this, you can use this package with bootstrap without any problem.

- **Plugins**

Instead of having to build a feature from scratch, adding a plugin to the back-end of a site will give the website owner more creative control over the site's functionality without having to code. For instance, you could add an events plugin to the back end of your site to list all of your upcoming events. Or, you could add a social media plugin that shows all of yours etc...

4.1.1.2 Our Work

Developers build components and functions that users access directly via a programme or system interface. It's a way for users and servers to communicate. Customer development is what interface design is all about. The construction of an external interface is a crucial part of many aspects of software development. We designed a simple external interface that allows users to interact with the software easily.

- **Home Page**

page of the website is considered the main page. It has a login menu bar and a navbar link for the page of different hotels to book. The entire site is fully responsive, which means it can be seen on many devices.

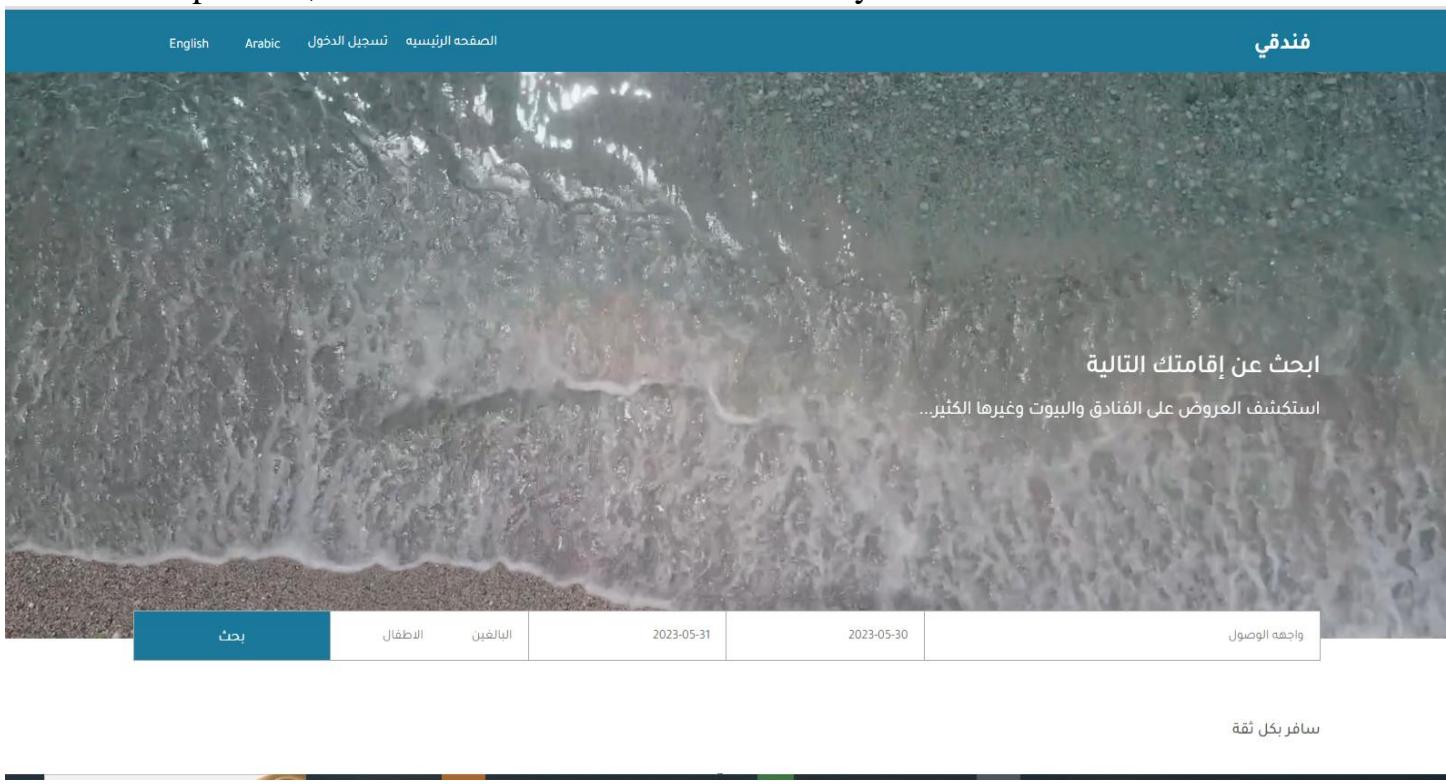


Figure 4–1 Home Page

- Admin log in Page

تسجيل دخول الادمن

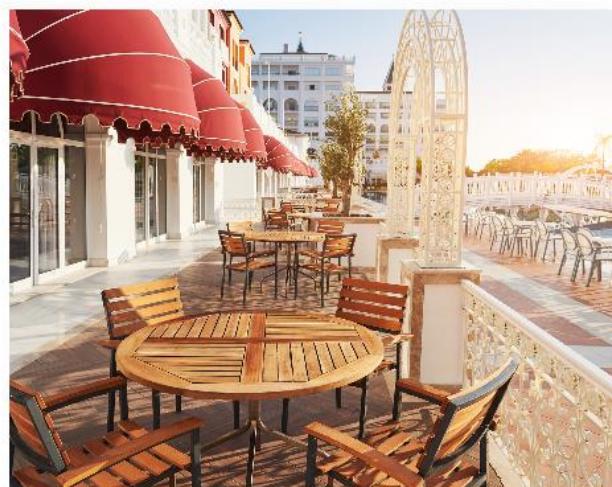
البريد او الهاتف

cairo123@gmail.com

كلمة المرور

.....

تسجيل الدخول للادمن



- Hotel log in Page

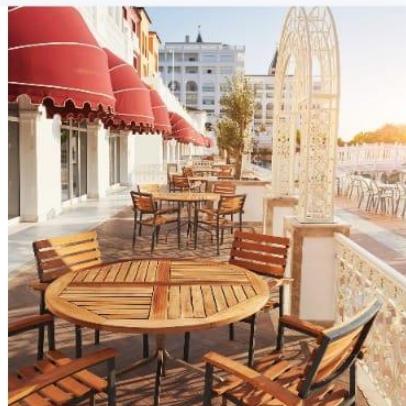
دخول الفندق.

البريد او الهاتف

كلمة المرور

تسجيل الدخول للنحوت

تسجيل فندق



- **User Registration Page**

This page allows the user to create a new account on the system.

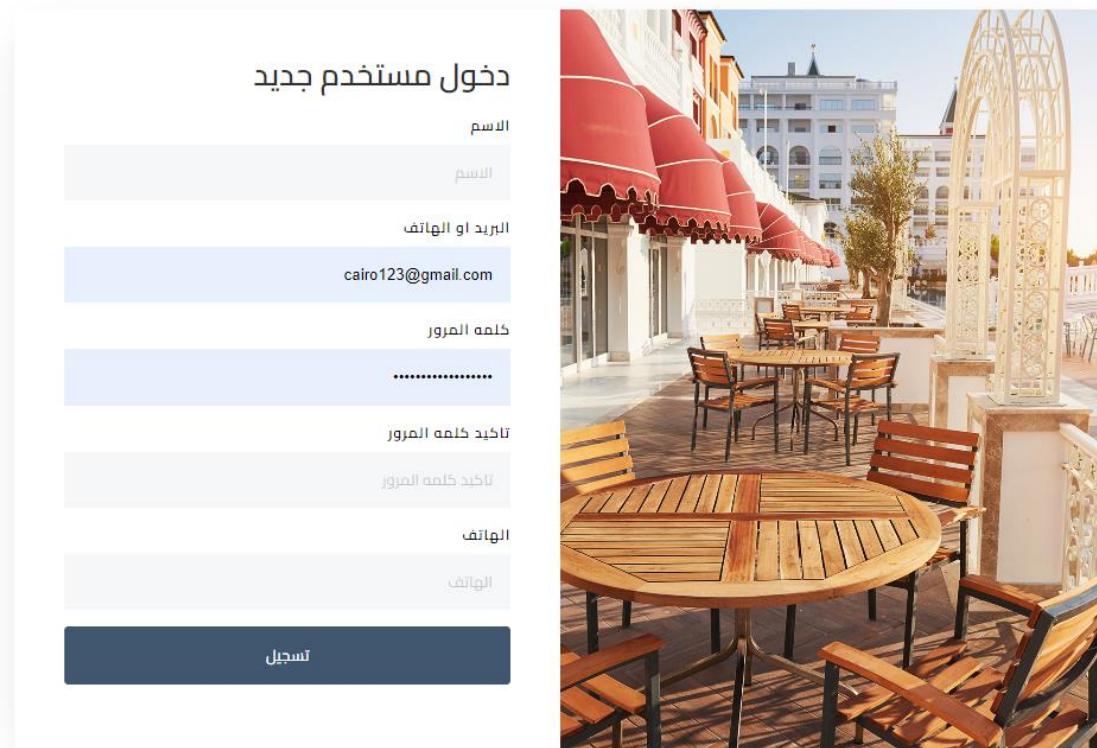


Figure 4–7. Web Sign Up

- **User Login**

Page

This page allows the user to log in to a website after confirming his e-mail.



Figure 4–8. Web Sign In

بحث

08/07/2022

إلى

08/01/2022

من

تاریخ نهاية الاتجاه	تاریخ بداية الاتجاه	سعر الغرفة	عدد الغرف
2022-08-02	2022-08-01	200 جنية المصري	100
2022-08-03	2022-08-02	200 جنية المصري	100
2022-08-04	2022-08-03	200 جنية المصري	100
2022-08-05	2022-08-04	200 جنية المصري	100
2022-08-06	2022-08-05	200 جنية المصري	100
2022-08-07	2022-08-06	200 جنية المصري	100



عرض المزيد

← حجوزاني
← الصفحة الرئيسية

فندقي
تأسست my-hotel منذ فبراير 2022 . نحن وكالة سفر للفنادق عبر الإنترنت يهدف فريق موقع موقع www.myhotel.com باستغلال عن المزيد من الفكاه والترفيهات من خلال أحدث التقنيات لجعلها أسهل وأسرع لعملائنا لحجز غطائهم.

فندق كراون بلازا عمان
01019539347



عمان-مسقط
فندق اللاند

نوف هذه المنشآة الفندقية خدمات النقل من المطار (قد يتم تطبيق رسوم إضافية). يرجى أن يتواصل الزواف مع المنتشرة الفندقية لذكر تفاصيل الوصول قبل السفر. وذلك باستخدام تفاصيل الاتصال الواردة في تأكيد الحجز سيتم الترحيب بالزائرة عند وصولهم من قبل طاقم مكتب الاستقبال.

الخدمات

Hour Guest Reception-24	Room Service	Free WiFi	Parking
Hair Styling Tools	Ample Wall Outlets	Healthy Breakfast	Complimentary Toiletries
Complimentary Electronics Chargers	Mini-fridge	Pool	Flexible Checkout
Daily Newspaper	Exercise Facilities and Accessories	Spa & Wellness Amenities	Free Breakfast
		Complimentary Luggage storage	Entertainment

تقييمات الفندق

4.00 ★★★★☆

[جميع الحجوزات](#)

بحث

اظهر السجلات

٥٦

الحاله	الحجز	السعر	العنوان	نسمه السياحة	نسمه الينجنه	نسمه الـ vat	الاجمالي	نسمه الضريبه	نارخ المقادره	نارخ الوصول	نارخ الالبي	عدد العرفة	نوع الفرمهه	البالغون	الاطفال	الوجهه	اسم العميل	نسمه المدفوعه	نسمه فدهه	نسمه الرام
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لم يتم العثور على بيانات

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اظهر ٠ الى ٥ من ٥ سجل

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الوجهه	<input type="text" value="شارع العزبي"/>
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غرفة دول
تتيح شقة Swietego Tomasza في بولندا دخول المدينة القديمة في كراكوف. على بعد 200 متر من ساحة السوق الرئيسية. وتتوفر أماكن إقامة في شقة واسعة
ومجهزة بشكل جيد مع خدمة الواي فاي المجانية.

إضافة خدمات الغرف / قسم خدمات الغرف

قسم خدمات الغرف
قسم خدمات الغرف

نوع الغرفة *

نوع الغرفة ...

 مخدوم شعر

 ماء كروبيوف

 لبلحة صغيرة

 مطبخ

 تلفاز مع جواز استئجار

 service room

 papers

 bathroom 2

 free wifi

 خدمات الغرف

الرئيسية

المائدة الرئيسية

العدادات

قسم الغرف

عرض خدمات المدقق

خدمات الغرف

المأواة

 خدمات الغرف

جميع الحقوق محفوظة لمدحومه لمنطقة مندق لعام 2022 ©

English Arabic تسجيل الخروج حجوزات الصفحة الرئيسية

فندقي

رقم الحجز	الوجهة	الابناء	الاطفال	البيانات	نوع الغرفة	عدد الغرف	عدد الباقي	تاريخ الوصول	تاريخ المغادرة	الفندق	المضافه	اجمالي السعر بالصرف	نوع الحجز
23	شانغ الصين	1	2	Dulux room	1	9	1	2022-08-01	2022-08-10	فندق الشارقة	غير متصري	0.00	تم الحجز

« التالي » المسايق


عرض المزيد

← حجوزات ← الصفحة الرئيسية

تأسست my-hotel في 2022 . نحن وكالة سفر للفنادق عبر الإنترنت يبحث فريق موقع
اسهل وأسرع لعميلنا لحج عطلتهم

فندقي

فندق كراون بلازا عمان

01019539347

قسم خدمات الغرف / اضافة خدمة جديدة

اضافة خدمة جديدة

* اسم الخدمة*

حفظ

جميع الحقوق محفوظة لشركة فندقى لعام 2022.

قسم خدمات الغرف / عرض الخدمات

عرض الخدمات

أضف خدمة جديدة

النخدم	اسم الخدمة	رقم الخدمة
العمليات	service room	12

أظهر 1 إلى 1 من إجمالي 1 سجل

السابق 1 التالي

جميع الحقوق محفوظة لشركة فندقى لعام 2022.

الإنجليزية

اللغة العربية

اللغة الإنجليزية

اللغة العربية

قسم الفواتير

عرض خدمات المدقق

خدمات الفرز

المؤاشير

قائمة تقرير الفاتورة الشهرية

جميع الدخولات

إظهار السجلات

أظهر 1 إلى 1 من أصل 1 سجل

بيانات

الفاتورة

المواعيد

العمليات

التاريخ

تاريخ نهاية التنازلة

تاريخ بداية التنازلة

النهاية 31 أغسطس 2022

البداية 1 أغسطس 2022

السابق

التالي

جميع الحقوق محفوظة لشركة فندقي لعام 2022.

الإنجليزية

اللغة العربية

اللغة الإنجليزية

اللغة العربية

قسم الخدمات

اضافة وعرض خدمات المدقق

قسم الخدمات

إظهار عرض

إظهار السجلات

أظهر 1 إلى 1 من أصل 1 سجل

بيانات

الخدم

الخدمات

اسم الخدمة

Parking- Free WiFi- Room Service- 24-Hour Guest Reception- Complimentary Toiletries- Healthy Breakfast- Ample Wall Outlets- Hair Styling Tools- Flexible Checkout- Pool- Mini-fridge- Complimentary Electronics Chargers- Premium Bedding

service

السابق

التالي

جميع الحقوق محفوظة لشركة فندقي لعام 2022.

تقييم

★★★★★

اضافة

اضافة تعليق

عرض التعليقات

teto

فندق يعنى جدا براحة الزبون

teto

فندق جميل جدا انسح الجميع واستخداته

فندقي

تأسست my-hotel منذ فبراير 2022 . نحن وكالة سفر للفنادق عبر الانترنت يبحث فريق موقع موقعي عن الفنادق من الفنادق والوجهات من خلال أحدث التقنيات لجعلها أسهل وأسرع لعملائنا لจอง عطلاتهم.

فندق كراون بلازا عمان

01019539347



عرض المزيد

← جوزان

← الصفحة الرئيسية

webmin

اضافة نوع غرفة / قسم التحكم بالغرف

قسم التحكم بالغرف

اضافة نوع غرفة	
*	نوع الغرفة*
حفظ	

جميع الحقوق محفوظة لنشرة فندقي لعام 2022 .

الرئيسية

+ الفاتحة الرئيسية

+ العدادات

+ قسم الغرف

+ عرض خدمات الفندق

+ خدمات الغرف

+ الفواتير

قسم التحكم بالعمر / اقسام الغرف

اقسام الغرف

تحديث بيانات الفندق

وصف الغرفة

نوع الغرفة *

عدد الأطفال

عدد البالشين

صور الغرفة

صور الغرفة :

No file chosen Choose Files

حفظ

جميع الحقوق محفوظة لشركه فندق لعام 2022 .

الرئيسية

المالمه الرئيسيه

العدادات

قسم الغرف

عرض خدمات الفندق

خدمات الغرف

المفاصيل

فندق

تأسست my-hotel من قبل في 2022 . نحن وكالة سفر للفنادق عبر الإنترنت يبحث فريق موقعنا عن المزيد من الفنادق والوجهات من خلال أحدث التقنيات لجعلها أسهل وأسرع لعملائنا لحجز غرفتهم.

فندق كراون بلازا عمان 01019539347

عرض المزيد



← دخوازيا ← الصفحة الرئيسية

سافر بكل ثقة

 المعابر الصحية الرسمية

الرخام المبنية بإرشادات التقييم المفروضة على التبريرات والمؤسسات.

النظافة والتعقيم

استخدام المطهرات، وما إذا كانت المنشآت تقدّم إلخنة ما بين الإغاثات

أفضل الفنادق

ابحث عن أفضل الفنادق، في أشهر الوجهات



فاتورة تحصيل

موقع فاتورة يرجى زيارة

مأموره تحصل مبلغ المدفوع الشعبيه من موقع مندى

رقم هاتف الدخون 54534

اسم الدخون بلدي الماهمه

معلومات المندق

معلومات المأمورة

رقم المأمورة 10232998

تاريخ المأموره 2022

فاتورة شهريا

رقم الدخز	الوجوده	البطفال	البالغين	نوع الغرفه	عدد الغرفه	عدد البابا	تأريخ الوصول	تأريخ المفاصده	اجمالي الدخز	اسم العميل	حالة الدخز
1	شارع العزي	1	2	غرفة دونل	2	2	2022-08-01	2022-08-03	1,200.00	جنبه المصري	مفعول
2	شارع العزي	1	2	Duxlex room	2	1	2022-08-01	2022-08-04	600.00	جنبه المصري	مفعول
3	شارع العزي	1	2	Duxlex room	2	1	2022-08-01	2022-08-09	2,200.00	جنبه المصري	مفعول
4	شارع العزي	1	2	Duxlex room	2	1	2022-08-01	2022-08-09	2,200.00	جنبه المصري	مفعول
5	شارع العزي	1	2	Duxlex room	2	1	2022-08-01	2022-08-10	600.00	جنبه المصري	مفعول
6	شارع العزي	1	2	Duxlex room	2	1	2022-08-01	2022-08-10	1,800.00	جنبه المصري	مفعول
7	شارع العزي	1	2	Duxlex room	2	1	2022-08-01	2022-08-10	3,600.00	جنبه المصري	مفعول
8	شارع العزي	1	2	Duxlex room	2	1	2022-08-01	2022-08-10	1,800.00	جنبه المصري	مفعول

أنواع الغرف

إضافة غرفة

اظهر السجلات

اظهر 1 من اصل 1 سجل

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تحديث بيانات الفندق

اسم مسؤول الفندق *

علي احمد

اسم الفندق باللغة العربية *

فندق القاهرة

البريد الإلكتروني للنحو *

cairo123@gmail.com

اسم الفندق باللغة الإنجليزية *

Cairo-Hotel

كلمة المرور الجديدة

كلمة المرور القديمة

العملاء باللغة العربية *

تأكيد كلمة المرور

جنبي المصري

يرجى إدخال رقم هاتف للفندق

54534

العملاء باللغة الإنجليزية *

EGP

ادكتب وصف للفندق والغرف

التقييمات

بحث:

اظهر السجلات

▼

50

تاريخ التقييم	التقييمات	اسم العميل
2022-09-15	★★★★★	teto

التالي 1 السابق

اظهر 1 إلى 1 من اصل 1 سجل

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قسم جميع الفواتير الخاصة بالفندق

قسم الفواتير / قسم جمجم الفواتير الخاصه بالفندق

بحث:
2021
اظهر المسجلات

الفاتورة	العمله	حالة الدفع	اجمالي مال الربح	اجمالي مال العمولة	رقم حساب بنك الدفع	تاريخ نهاية التاذبه	تاريخ بداية التاذبه
الفاتورة الشهريه	جنيه المصري	غير مدفوعمه	0	0	5745673456347	الثلاثاء 31 يناير 2023	الأحد 1 يناير 2023

اظهر 1 الى 1 من اصل 1 سجل
التالي
السابق

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اقسام الغرف

قسم التحكم بالغرف / اقسام الغرف

اطفاء غرفه
اظهر المسجلات

اجراء	عدد الاطفال	عدد البالغين	نوع الغرفه
العمليات	1	2	Double Room
العمليات	1	2	Suite Room
العمليات	1	2	Trip Room
العمليات	1	2	Twin Room
العمليات	1	2	Villa Room

اظهر 1 الى 5 من اصل 5 سجل
التالي
السابق

webmin

اقسام الحجوزات

دجولات اليوم

اظهر السجلات

الرئيسيه

- + القائمه الاليسنيه
- + الاعدادات
- + قسم الفرق
- + عرض خدمات المدقق
- + خدمات الفرق
- + خدمات المدقق
- + الدواوين

الحجز	الحالة	سعر الحجز الاصلي	نسبة السياحة	نسبة البندقة	نسبة الـ vat	النجماني	نسبة الضريبيه	تاريخ المفاجدرو	تاريخ الوصول	عدد الليل	عدد الغرف	نوع العرفة	اليابانين	الاطفال	الوجهه	اسم العميل	نسبة الموقوف	نسبة السبيه	نسبة المجهه	نرجم الحجز
٥	مفعول	٢٠٠	٦٠	٣٠	٣٠	٣٠	٣٠	٢٠٢٢-٠٨-١٠	٢٠٢٢-٠٨-٠١	٩	١	Dulex room	٢	١	شارع العزابي	teto	٠	٥%	٢٣	

اظهر ١ اول ٦ سجل

السابق التالي

جميع الحقوق محفوظه لشركه مدندي لعام ٢٠٢٢

4.1.2 Android

4.1.2.1 Architecture

For projects, developers always prefer clean and well-structured code.

The maintenance of software is aided by structuring the codes according to a design pattern. It is easier to add and remove app features if you understand all of the critical logic elements of the android application. Furthermore, design patterns ensure that all of the codes are covered in Unit Testing without other classes interfering.

Model—View—ViewModel (MVVM) is a well-known software architecture pattern that addresses all of the shortcomings of the MVP and MVC design patterns.

MVVM proposes separating the data display logic (Views or UI) from the application's main business logic.

The app's user interface is everything that the user can see and interact with. Android provides a variety of pre-built UI components such as structured layout objects and UI controls that allow us to build the graphical user interface for our app.

The separate code layers of MVVM are:

- Model: This layer is responsible for the abstraction of the data sources. Model and ViewModel work together to get and save the data.
- View: The purpose of this layer is to inform the ViewModel about the user's action. This layer observes the ViewModel and does not contain any kind of application logic.
- ViewModel: It exposes those data streams which are relevant to the View. Moreover, it serves as a link between the Model and the View.

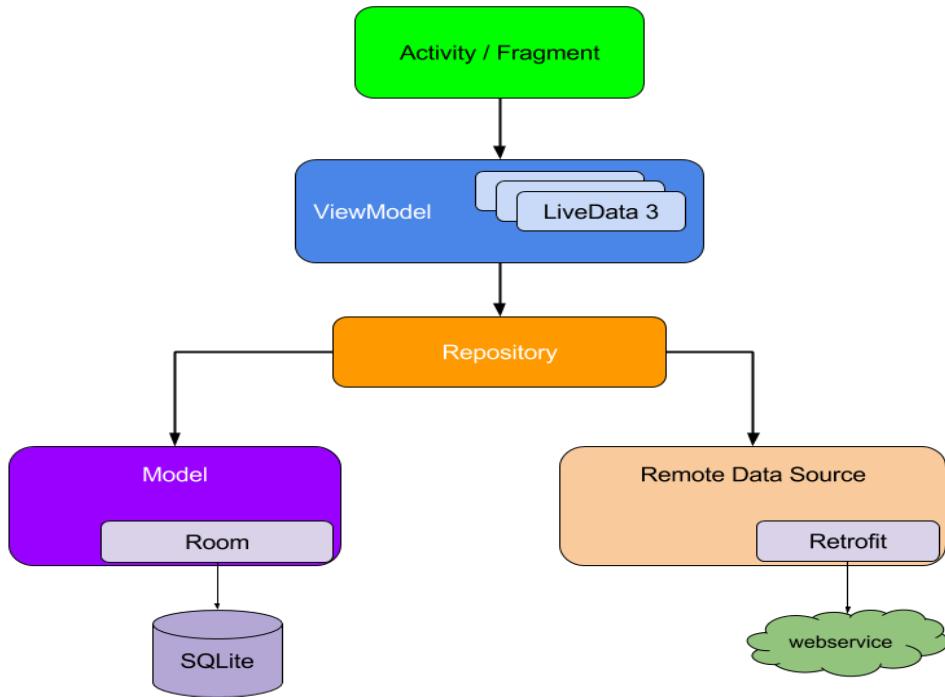


Figure 4–11 MVVM

- **LiveData:** -

LiveData is an observable data holder class. Unlike a regular observable, LiveData is lifecycle-aware, meaning it respects the lifecycle of other app components, such as activities, fragments, or services. This awareness ensures LiveData only updates app component observers that are in an active lifecycle state.

LiveData considers an observer, which is represented by the Observer class, to be in an active state if its lifecycle is in the STARTED or RESUMED state.

LiveData only notifies active observers about updates. Inactive observers registered to watch LiveData objects aren't notified about changes.

This relationship allows the observer to be removed when the state of the corresponding Lifecycle object changes to DESTROYED. This is especially useful for activities and fragments because they can safely observe LiveData objects and not worry about leaks, activities and fragments are instantly unsubscribed when their lifecycles are destroyed.

The advantages of using LiveData: -

Using LiveData provides the following advantages:

- Ensures that the UI matches the data state**

LiveData follows the observer pattern. LiveData notifies Observer objects when underlying data changes. That way, we don't need to update the UI every time the app data changes because the observer does it.

- No memory leaks**

Observers are bound to Lifecycle objects and clean up after themselves when their associated lifecycle is destroyed.

- No crashes due to stopped activities**

If the observer's lifecycle is inactive, such as in the case of an activity in the back stack, then it doesn't receive any LiveData events.

- No more manual lifecycle handling**

UI components just observe relevant data and don't stop or resume observation. LiveData automatically manages all of this since it's aware of the relevant lifecycle status changes while observing.

- Always up to date data**

If a lifecycle becomes inactive, it receives the latest data upon becoming active again. For example, an activity that was in the background receives the latest data right after it returns to the foreground.

- **Proper configuration changes**

If an activity or fragment is recreated due to a configuration change, like device rotation, it immediately receives the latest available data.

- **Sharing resources**

LiveData object could be extended using the singleton pattern to wrap system services so that they can be shared in app. The LiveData object connects to the system service once, and then any observer that needs the resource can just watch the LiveData object. When we update the value stored in the LiveData object, it triggers all registered observers as long as the attached LifecycleOwner is in the active state.

- **UI**

LiveData allows UI controller observers to subscribe to updates. When the data held by the LiveData object changes, the UI automatically updates in response.

4.1.2.2 UI Design

interaction design	User Experience Design
<p>It is the practice of designing interactive digital products and services.</p> <p>Interaction designers focus on the way users interact with products, and they use principles of good communication to create desired user experiences.</p>	<p>It focuses on the overall experience between a user and a product. It is concerned not only with the interactive elements, but also with how certain elements look, feel, or conduct themselves to deliver certain outputs.</p>

Table 4-1 Interaction Design VS UX

A layout defines the structure for a user interface in android app, such as in an activity. All elements in the layout are built using a hierarchy of view and View Group objects. A view usually draws something the user can see and interact with. Whereas a View Group is an invisible container that defines the layout structure for View and other View Group objects, as shown in figure

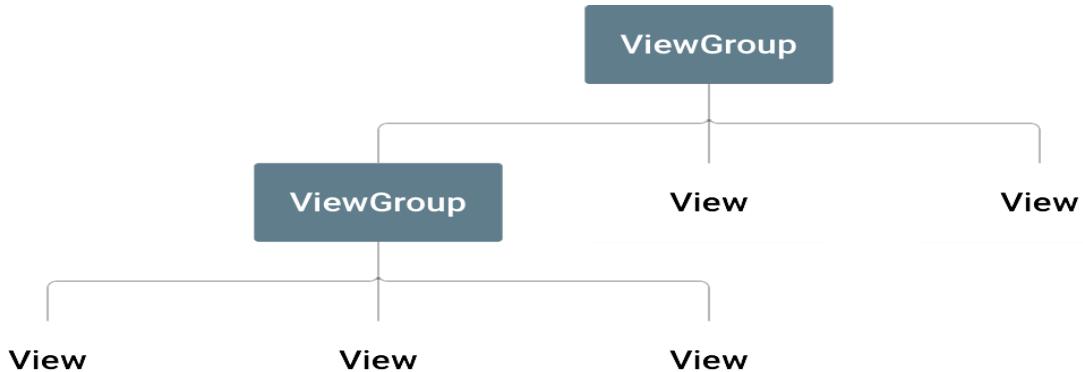


Figure 4–12 ViewGroup Layout

- **XML layout file**

Using Android's XML vocabulary, we can quickly design UI layouts and the screen elements they contain, in the same way you create web pages in HTML with a series of nested elements.

Each layout file must contain exactly one root element, which must be a view or View Group object. Once root element has been defined, we can add additional layout objects or widgets as child elements to gradually build a View hierarchy that defines the layout.

- **Load the XML Resource**

When the app is compiled, each XML layout file is compiled into a View resource. Layout resource file will be loaded from our app code, in Activity.onCreate() callback implementation. Do so by calling setContentView(), passing it the reference to the layout resource in the form of: R.layout.layout.

- **Material Design**

Material is a design system created by Google to help teams build high-quality digital experiences for Android, iOS, Flutter, and the web.

Material Design is inspired by the physical world and its textures, including how they reflect light and cast shadows. Material surfaces reimagine the mediums of paper and ink.

Components cover a range of interface needs, including:

- Display: Placing and organizing content using components like cards, lists, and sheets.
- Navigation: Allowing users to move through the product using components like navigation drawers and tabs.
- Actions: Allowing users to perform tasks using components such as the floating action button.
- Input: Allowing users to enter information or make selections using components like text fields, chips, and selection controls.
- Communication: Alerting users to key information and messages using components such as snackbars, banners, and dialogs.
- **RecyclerView**

RecyclerView is the advanced version of the ListView. Recyclerview simplifies the display and handle of a large set of data.

RecyclerView recycles those individual elements. When an item scrolls off the screen, RecyclerView doesn't destroy its view. Instead, RecyclerView reuses the view for new items that have scrolled onscreen.

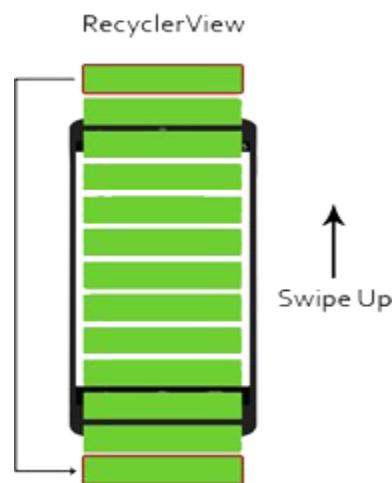


Figure 4–13 RecyclerView

Some advantages of using RecyclerView:

- Performance on Loading
- ViewHolder Pattern
- Layout Manager
- Item Decoration

• Activity VS Fragments

- An activity is a user interface component that is mainly used to construct a single screen of the application and represents the main focus of attention on a screen. An activity can host one or more fragments at a time.
- Fragments are reusable components that are attached to and displayed within activities. It is basically a piece of an activity that enables more modular activity design. We can call a fragment a kind of sub-activity. It is always hosted by an activity. It has its own layout and its own behavior, with its own life cycle callbacks.

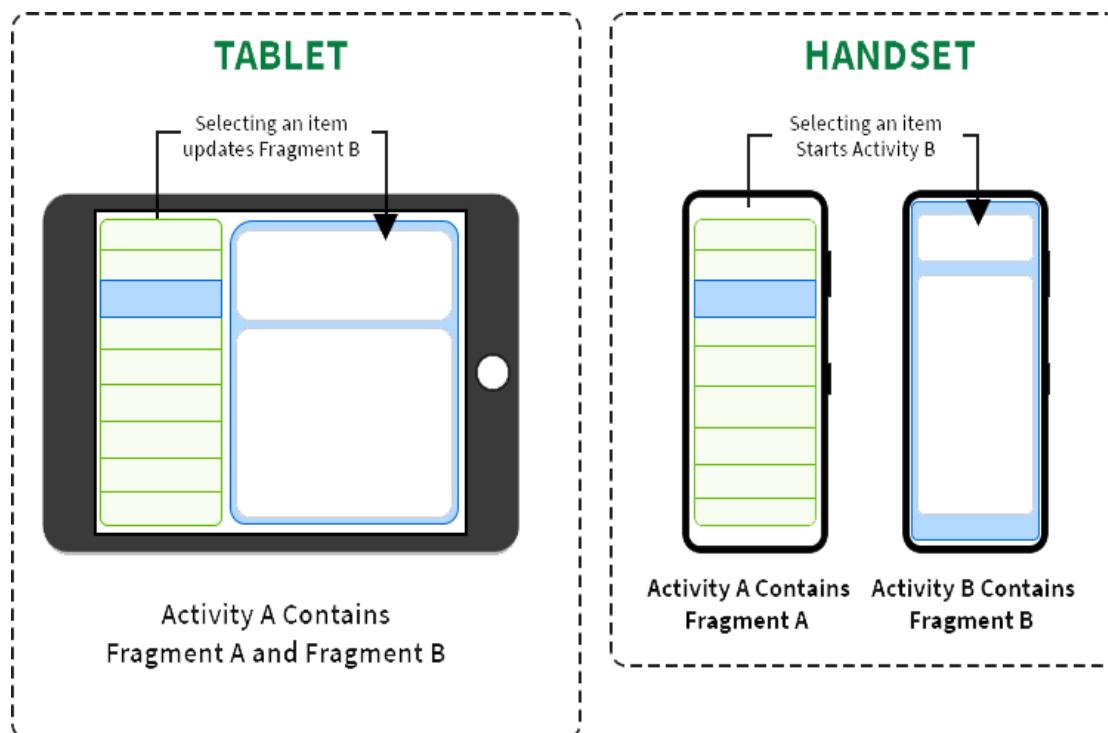


Figure 4–14 Fragment Layout

- **File base:**



FileBase is the first S3-compatible object storage platform that allows you to store data in a secure, redundant, and performant manner across multiple decentralized storage networks.

Filebase manages all aspects of the data storage layer on your behalf and eliminates the complexities associated with storing data on any of the supported networks. Some of these restrictions include minimum file and sector size problems, retention issues and retrieval delays, and requiring the use of special software or skill sets to use these networks.

تسجيل بيانات الفندق

اسم مسؤول الفندق * :

اسم الفندق باللغة العربية * :

اسم الفندق باللغة الانجليزية * :

البريد الالكتروني للفندق * :

كلمه مرور الفندق * :

موقع الفندق باللغة العربية * :

موقع الفندق باللغة الانجليزية * :

العمله باللغة العربيه...

العمله باللغة الانجليزيه...

اكتب وصف للفندق والغرف * :

يرجى ادخال رقم هاتف للفندق * :

صور الفندق * :
 Choose Files

[تسجيل بيانات الفندق](#)

دخول الفندق

البريد او الهاتف

admin123@gmail.com

كلمه المرور

.....

[تسجيل الدخول للفندق](#)

[تسجيل فندق](#)



تسجيل دخول اللدمن

البريد او الهاتف

cairo123@gmail.com

كلمه المرور

.....

تسجيل الدخول لللدمن



دخول المستخدم

البريد او الهاتف

البريد او الهاتف

كلمه المرور

كلمه المرور

تسجيل الدخول

تسجيل بيانات المستخدم



فندقي

Double Room

غرف واسعة ومريحة تحتوي إما على سريرين مفردين عريضين أو سرير واحد مزدوج بحجم كبير بالإضافة إلى حمام خاص بكل غرفة. تحتوي كل غرفة على ما يلي: أيسرة مفردة متينة ومريحة بقياس 110 سم (الغرف المزدوجة بأيسيزءة مفردة) أو 200x170 (الغرف المزدوجة بسرير واحد بحجم كبير)

الخدمات

حمام جاكوزي

وايفاي مجاني

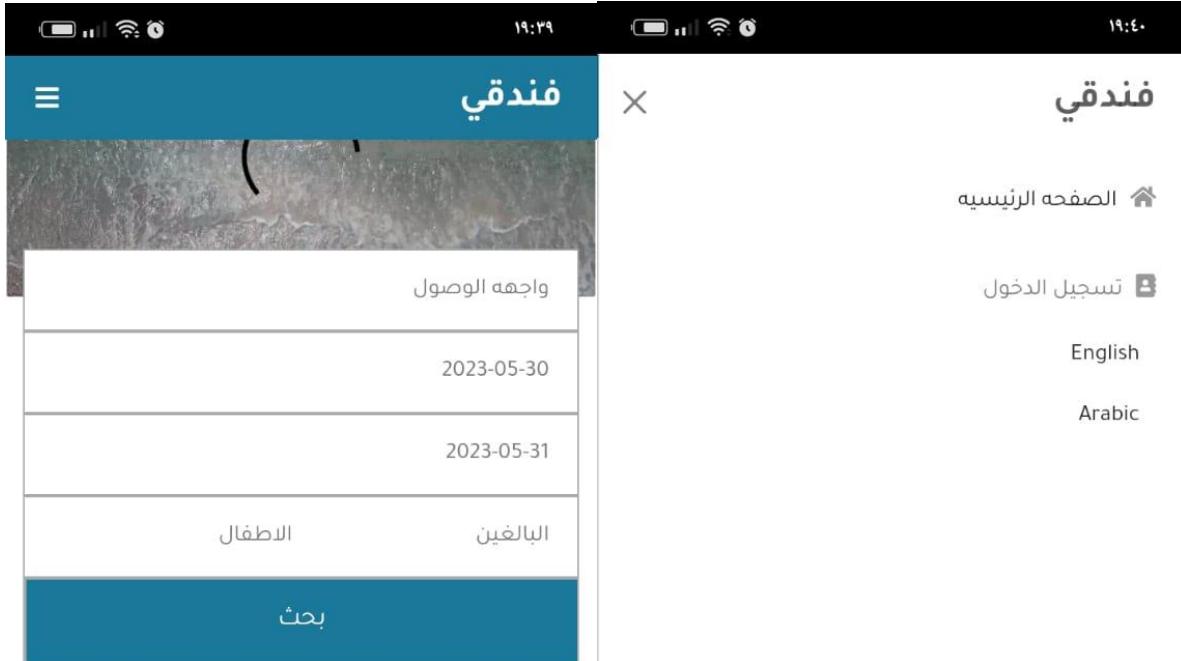
خدمة الغرف

سرير اطفال مجاني

شاشة عرض

الوجهه

56



سافر بكل ثقة

المعايير الصحية الرسمية

التزام المنشآت بإرشادات التعقيم المفروضة على الشركات والمؤسسات.

 **التباعد بين الأفراد**

إجراء تسجيل الوصول وتسجيل المغادرة عن بعد، بالإضافة إلى الالتزام بمعايير التباعد بين الأفراد.

 **النظافة والتعقيم**

استخدام المطهرات، وما إذا كانت المنشآت تنفذ فترة إخلاء ما بين الإقامات.



My Hotel



Your destination

2023-05-30

2023-05-31

adults	children
--------	----------

search

My Hotel

my-hotel was established since February 2022, we are an online hotel travel agency, www.myhotel.com team is constantly looking for more ideas and promotions through the latest technology to make it easier and faster for our customers to book their holiday.

Crowne Plaza Amman Hotel

01019539347

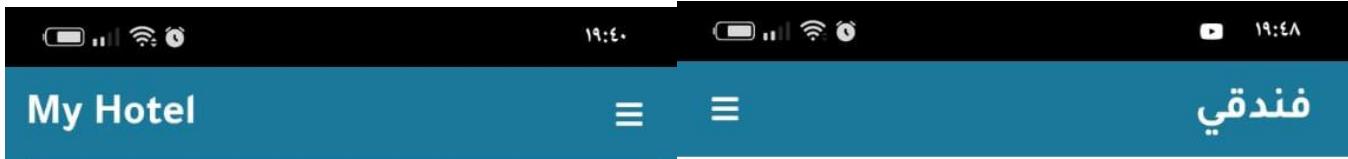
Show more

← Reservations

← Home







Travel with confidence

Official health standards

The establishments' commitment to the sterilization guidelines imposed on companies and institutions.

Spacing between people

Remote check-in and check-out, in addition to adhering to social distancing standards.

Hygiene and sterilization

Use of disinfectants, and whether facilities implement an evacuation period between stays.

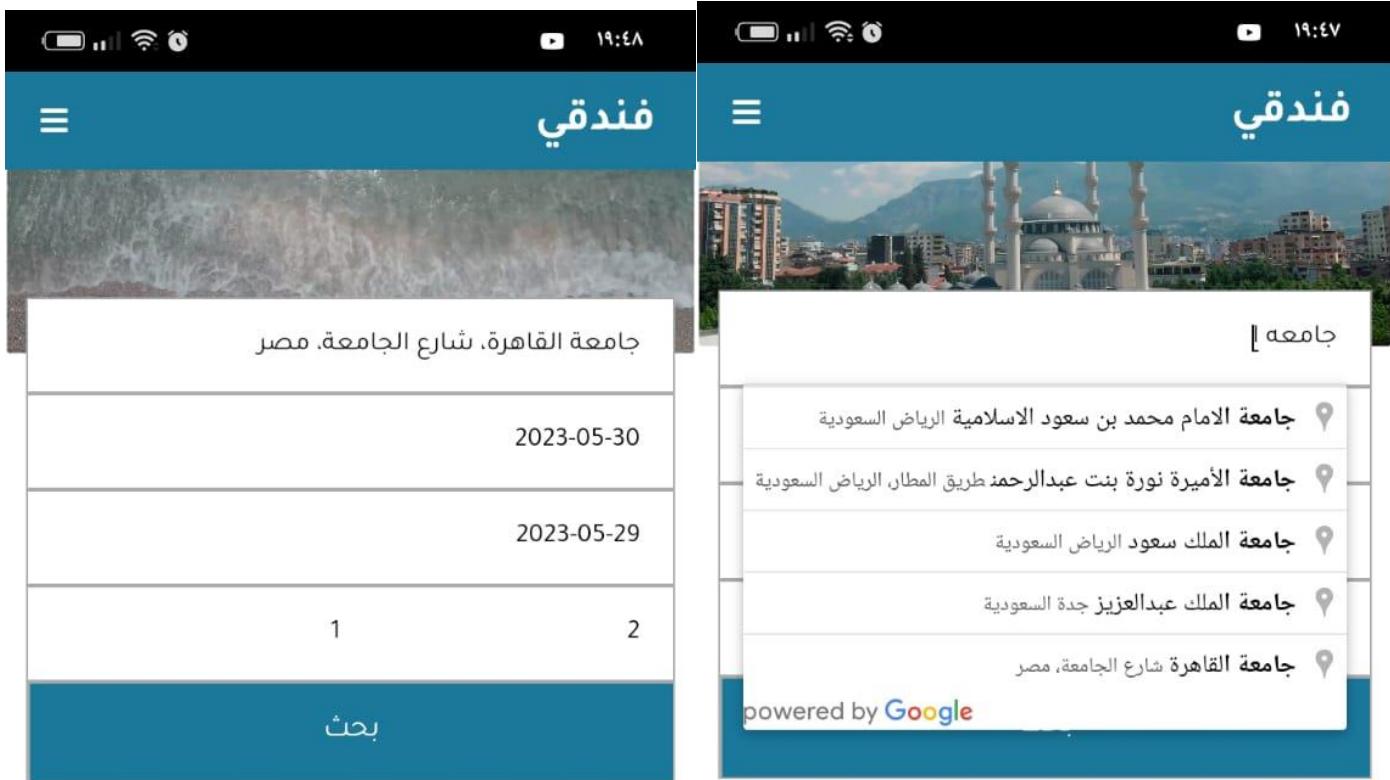
Basic matters in the facility

Free hand sanitizer for guests, and options of individually packed food.

Best Hotels

Find the best hotels in the most popular destinations

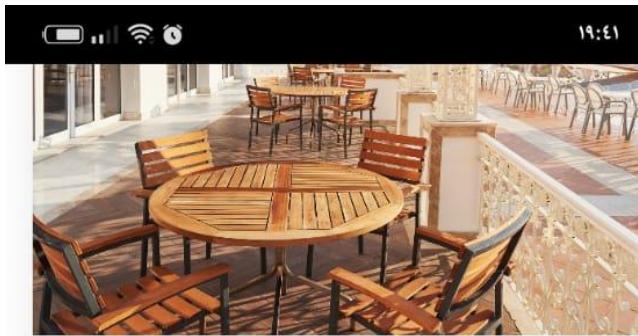




سافر بكل ثقة

سافر بكل ثقة





دخول مستخدم جديد

الاسم

الاسم

البريد او الهاتف

البريد او الهاتف

كلمة المرور

كلمة المرور

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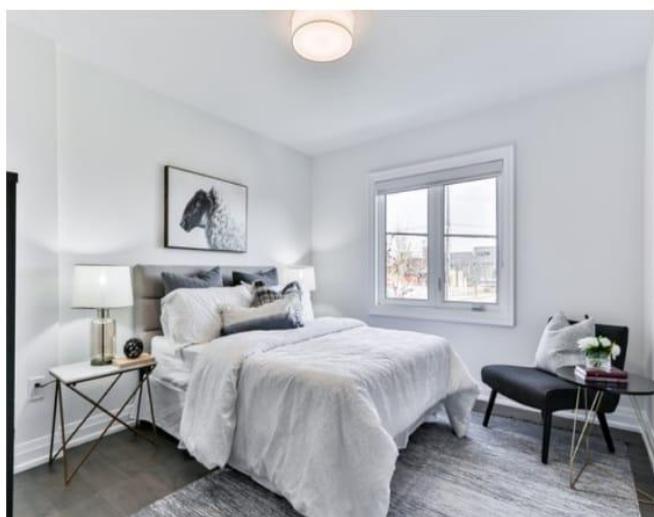
الهاتف

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تسجيل



فندقي



فندقي

تاریخ المغادره

٢٠٢٣/٦/٠١

الاشخاص

٢

الاطفال

١

عدد الغرف

٢

الاجمالي يقيمه الضريبيه المضافه ب

٥٤٧,٥

استكمال عملية الحجز

فندقي

الوجهه

جامعة القاهرة، شارع الجامعة، مصر

تاریخ الوصول

٢٠٢٣/٥/٣٠

تاریخ المغادره

٢٠٢٣/٦/١

الاشخاص

٢

الاطفال

١

عدد الغرف

٢

الاجمالي يقيمه الضريبيه المضافه ب

.

استكمال عملية الحجز

تاریخ نهايه الاتاحيه	تاریخ بدايه الاتاحيه	سعر الغرفه	عدد الغرف
2023-05-31	2023-05-30	120.00 جنية المصري	100
2023-06-01	2023-05-31	120.00 جنية المصري	100

تاریخ نهايه الاتاحيه	تاریخ بدايه الاتاحيه	سعر الغرفه	عدد الغرف
2023-05-31	2023-05-30	120.00 جنية المصري	100

5. Chapter Five

5.1 Implementation

```
//query search

public function welcome(Request $request){

    if($request->has('location_ar') || $request->has('location_en') && $request->has('child_max') && $request->has('adults_max') && $request->has('date_start') && $request->has('date_expire')) {

        $hotels = Hotel::where('blocked', '=', true)
            ->select('id', 'name_ar', 'name_en', 'location_ar', 'location_en', 'currency_ar',
'currency_en', 'hotel_photos')
            ->whereHas('room', function ($room) use ($request) {

                $room->whereDoesntHave('calendars', function ($query) {
                    $query->where('room_number', '=', 0);

                })->where('room_type', '=', 'Double Room')
                    ->where('adults_max', '=', $request->adults_max)->where('child_max', '=', $request->child_max)
                    ->whereHas('calendars', function ($calendars) use ($request) {
                        $calendars->whereBetween('check_in', [$request->date_start, $request->date_expire])->whereDate('check_in', '!=', $request->date_expire);

                    });
                })->where('location_ar', '=', $request->location_ar)->orWhere('location_en', '=', $request->location_en)
                ->with(['room' => function ($room) use ($request) {

                    $room->select('id', 'room_type', 'adults_max', 'child_max', 'hotel_id')-
>where('room_type', '=', 'Double Room')
                    ->whereHas('calendars', function ($calendars) use ($request) {

                        $calendars->whereBetween('check_in', [$request->date_start, $request->date_expire])->whereDate('check_in', '!=', $request->date_expire);

                    });

                }]);
            });

    }

}
```

```

        })->with(['calendars' => function ($calendars) use ($request) {

            $calendars-
>select('id','room_id','room_number','room_price','check_in','check_out')
            ->whereBetween('check_in', [$request->date_start, $request->date_expire])->whereDate('check_in', '!=', $request->date_expire);
            }]);

        }])->get();

    }

else{

    $hotels = [];
}

return view('users.welcome',compact('hotels'));

}

```

```

//satrt google map API
<script>
function initMap() {
  var map = new google.maps.Map(document.getElementById('map3'), {
    center: {lat: 22.3038945, lng: 70.80215989999999},
    zoom: 13
  });

  var input = document.getElementById('search3');

  map.controls[google.maps.ControlPosition.TOP_LEFT].push(input);

  var autocomplete = new google.maps.places.Autocomplete(input);

  autocomplete.bindTo('bounds', map);

  var infowindow = new google.maps.InfoWindow();

```

```

var marker = new google.maps.Marker({
  map: map,
  anchorPoint: new google.maps.Point(0, -29)
});

autocomplete.addListener('place_changed', function() {
  infowindow.close();
  marker.setVisible(false);
  var place = autocomplete.getPlace();

  /* If the place has a geometry, then present it on a map. */
  if (place.geometry.viewport) {
    map.fitBounds(place.geometry.viewport);
  } else {
    map.setCenter(place.geometry.location);
    map.setZoom(17);
  }
  marker.setIcon({{
    url: place.icon,
    size: new google.maps.Size(71, 71),
    origin: new google.maps.Point(0, 0),
    anchor: new google.maps.Point(17, 34),
    scaledSize: new google.maps.Size(35, 35)
}});
  marker.setPosition(place.geometry.location);
  marker.setVisible(true);

  var address = "";
  if (place.address_components) {
    address = [
      (place.address_components[0] && place.address_components[0].short_name
      || ""),
      (place.address_components[1] && place.address_components[1].short_name
      || ""),
      (place.address_components[2] && place.address_components[2].short_name
      || "")
    ].join(' ');
  }

  infowindow.setContent('<div><strong>' + place.name + '</strong><br>' + address);
});

```

```

infowindow.open(map, marker);

/* Location details */
document.getElementById('location-snap').innerHTML = place.formatted_address;
document.getElementById('lat-span').innerHTML = place.geometry.location.lat();
document.getElementById('lon-span').innerHTML = place.geometry.location.lng();
});

}

</script>
<script
src="https://maps.googleapis.com/maps/api/js?key=AIzaSyAK34ZyoH4758BkVP05-
GxKP0dSmBi4yTo&libraries=places&callback=initMap" async defer></script>

//Commission month from hotel
public function commissionOfMonth($id){

$hotel = Hotel::findOrFail($id);

$invoices = Reservation::with('hotel','user','room')->where('hotel_id','=', $id)
->whereMonth('check_in', date('m'))->whereYear('check_in', date('Y'))->get();

$commissions = Reservation::with('hotel','user','room')
->where('hotel_id','=', $id)
->whereMonth('check_in', date('m'))->whereYear('check_in', date('Y'))
->select(DB::raw("(sum(commission)) as commission"),DB::raw("(sum(total)) as
total"))
->get();

$now = Carbon::now()->translatedFormat('F Y');

return view('admins.month',compact('invoices','commissions','now','hotel'));

}

//Database Connection in laravel .env

```

```

DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=hotel
DB_USERNAME=root
DB_PASSWORD=

//Response Api for mobile
<?php

namespace App\Repositories\Api;
use Illuminate\Http\JsonResponse;
class ResponseApi{

    public static function returnResponseDataApi($data,string $message,int $code,bool
$statusData,int $status = 200): JsonResponse
    {
        return response()->json([
            'data' => $data,
            'message' => $message,
            'code' => $code,
            'statusData' => $statusData
        ],$status);
    }

    public static function returnResponseError(string $message,int $code,bool $statusData,int
$status): JsonResponse
    {
        return response()->json([
            'message' => $message,
            'code' => $code,
            'statusData' => $statusData
        ]);
    }
}

```

```

        ],$status);

    }

    public static function returnResponseSuccess(string $message,int $code,bool
$statusData,int $status): \Illuminate\Http\JsonResponse
{
    return response()->json([
        'message'=> $message,
        'code'=> $code,
        'statusData'=> $statusData

    ],$status);

}

}

//Srtart notification for admin when hotel register in website or mobile
<?php

namespace App\Events;

use Carbon\Carbon;
use Illuminate\Broadcasting\Channel;
use Illuminate\Broadcasting\InteractsWithSockets;
use Illuminate\Contracts\Broadcasting\ShouldBroadcast;
use Illuminate\Foundation\Events\Dispatchable;
use Illuminate\Queue\SerializesModels;

class NewHotelNotification implements ShouldBroadcast
{
    use Dispatchable, InteractsWithSockets, SerializesModels;

    public $name_ar;

```

```

public $email;
public $date;

public function __construct($data = [])
{
    $this->name_ar = $data['name_ar'];
    $this->email = $data['email'];
    $this->date = Carbon::createFromDate()->format('Y-m-d');

}

public function broadcastOn()
{
    return new Channel('hotel');
}

//Start notification for new reservation for hotel
<?php

namespace App\Events;

use Carbon\Carbon;
use Illuminate\Broadcasting\Channel;
use Illuminate\Broadcasting\InteractsWithSockets;
use Illuminate\Broadcasting\PrivateChannel;
use Illuminate\Contracts\Broadcasting\ShouldBroadcast;
use Illuminate\Foundation\Events\Dispatchable;
use Illuminate\Queue\SerializesModels;

class NewReservation implements ShouldBroadcast
{
    use Dispatchable, InteractsWithSockets, SerializesModels;

    public $hotel_id;
    public $data;

```

```

public function __construct($hotel_id,$data)
{
    $this->hotel_id = $hotel_id;
    $this->data = $data;
}

public function broadcastOn()
{
    return new PrivateChannel('new-reservations.'.$this->hotel_id);
}

public function broadcastAs()
{
    return 'new-reservations-event';
}

```

```

//start models

<?php

namespace App\Models;
use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\SoftDeletes;
use Illuminate\Foundation\Auth\User as Authenticatable;
use Tymon\JWTAuth\Contracts\JWTSubject;

class Admin extends Authenticatable implements JWTSubject
{
    use HasFactory;
    use SoftDeletes;

```

```
protected $table = "admins";
protected $fillable = [
    'name',
    'email',
    'password',
    'image',
    'phone',
    'role_id'
];
protected $dates = ['deleted_at'];

public function getJWTIdentifier(){
    return $this->getKey();
}

public function getJWTCustomClaims(){
    return [];
}

public function role(){
    return $this->belongsTo(Role::class, 'role_id', 'id');
}

public function hasAbility($permissions){
    $role = $this->role;
    if(!$role){
        return false;
    }else{
        foreach (json_decode($role->permissions) as $permission){
            if(is_array($permissions) && in_array($permission, $permissions) ||

```

```

        is_string($permissions) && strcmp($permissions,$permission) == 0){

            return true;

        }

        return false;
    }
}

public function payment(){

    return $this->hasMany(Payment::class,'admin_id','id');

}

}

<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class City extends Model
{
    use HasFactory;
    protected $fillable = ['name','country_id'];

    public function country(){

        return $this->belongsTo(Country::class,'country_id','id');
    }

    public function tourism_places(){

        return $this->hasMany(TourismPlace::class,'city_id','id');
    }
}

```

```

<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class Comment extends Model
{
    use HasFactory;

    protected $fillable = [
        'comment',
        'hotel_id',
        'user_id',
    ];

    public function user(){
        return $this->belongsTo(User::class, 'user_id', 'id');
    }

    public function hotel(){
        return $this->belongsTo(Hotel::class, 'hotel_id', 'id');
    }
}

<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class Country extends Model
{
    use HasFactory;
    protected $fillable = ['name'];
}

```

```

<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class Currency extends Model
{
    use HasFactory;
    protected $fillable = [
        'currency_ar',
        'currency_en',
        'logo'
    ];
}

<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class Event extends Model
{
    use HasFactory;

    protected $fillable = [
        'room_id',
        'room_number',
        'room_price',
        'check_in',
        'check_out',
    ];

    public function room(){
        return $this->belongsTo(Room::class,'room_id','id');
    }
}

```

```

}

<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\SoftDeletes;
use Illuminate\Foundation\Auth\User as Authenticatable;
use Tymon\JWTAuth\Contracts\JWTSubject;

class Hotel extends Authenticatable implements JWTSubject
{
    use HasFactory;
    use SoftDeletes;
    protected $fillable = [
        'manger',
        'name_ar',
        'name_en',
        'email',
        'password',
        'location_ar',
        'location_en',
        'currency_ar',
        'currency_en',
        'description',
        'hotel_photos',
        'phone_hotel',
        'blocked',
        'vat_tax',
        'municipality_fee',
        'tourism_fee',
        'commercial_register',
        'picture_tax'
    ];
    /*
     * commercial_register => رقم السجل التجاري
     * picture_tax => صوره البطاقه الضريبيه
    */
    protected $dates = ['deleted_at'];
}

```

```
public function room(){

    return $this->hasMany(Room::class, 'hotel_id', 'id');
}

public function getJWTIdentifier(){

    return $this->getKey();
}

public function getJWTCustomClaims(){

    return [];
}

public function service(){

    return $this->hasOne(Service::class, 'hotel_id', 'id');
}

public function active(){

    return $this->blocked == 1 ? __('data.status_one') : __('data.status_two');
}

public function rate(){

    return $this->hasMany(Rate::class, 'hotel_id', 'id');
}

public function comment(){

    return $this->hasMany(Comment::class, 'hotel_id', 'id');
}

public function roomService(){

    return $this->hasMany(RoomService::class, 'hotel_id', 'id');
}

public function reservations(){
```

```

        return $this->hasMany(Reservation::class,'hotel_id','id');

    }

    public function invoices(){

        return $this->hasMany(Invoice::class,'hotel_id','id');

    }

}

<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;
use Illuminate\Database\Eloquent\SoftDeletes;

class Invoice extends Model{

    use HasFactory;
    use SoftDeletes;

    protected $table = 'invoices';
    protected $fillable = [

        'invoice_number',
        'from',
        'to',
        'date_of_start',
        'date_of_end',
        'amount',
        'description',
        'bank_account',
        'month',
        'year',
        'status',
        'hotel_id',
        'total'
    ]
}

```

```

];
protected $dates = ['deleted_at'];

public function hotel(){
    return $this->belongsTo(Hotel::class,'hotel_id','id');
}

public function invoicesStatus(){

    return $this->status == 'paid' ? trans('hotels.paid') :
trans('hotels.not_paid');
}
}

<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class Rate extends Model
{
    use HasFactory;

protected $fillable = [
    'rates_number',
    'hotel_id',
    'user_id',
];

public function user(){

    return $this->belongsTo(User::class,'user_id','id');
}

public function hotel()

```

```

        return $this->belongsTo(Hotel::class, 'hotel_id', 'id');
    }

}

<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;
use Illuminate\Database\Schema\Builder;

class Reservation extends Model
{
    use HasFactory;

    protected $fillable = [
        'destination',
        'children',
        'adults',
        'check_in',
        'check_out',
        'num_of_nights',
        'room_number',
        'user_id',
        'room_id',
        'hotel_id',
        'rate',
        'vat_tax',
        'municipal_tax',
        'tourism_tax',
        'total',
        'total_all',
        'commission',
        'stayed',
        'status'
    ];
}

public function user(){

    return $this->belongsTo(User::class, 'user_id', 'id');

}

```

```

public function room(){
    return $this->belongsTo(Room::class,'room_id','id');
}

public function hotel(){
    return $this->belongsTo(Hotel::class,'hotel_id','id');
}

public function cancel(){
    return $this->status == true ? __('book.status') : __('book.cancel');
}

public function stay(){
    return $this->stayed == true ? __('book.stay') : __('book.not_stay');
}

public function scopeInvoicesReservation($query,$month,$year){
    return $query->with(['hotel','user:id,name,phone','room:id,room_type'])
->where('hotel_id','=',auth('hotel')->id())->whereMonth('check_in',$month)
    ->whereYear('check_in', $year);
}

public function scopeSumAmountOfCommissionEveryMonth($query,$month,$year){
    return $query->with(['hotel','user:id,name,phone','room:id,room_type'])
->where('hotel_id','=',auth('hotel')->id())->whereMonth('check_in',$month)
    ->whereYear('check_in', $year)->sum('commission');
}

public function scopeSumAmountOfTotalEveryMonth($query,$month,$year){
    return $query->with(['hotel','user:id,name,phone','room:id,room_type'])
->where('hotel_id','=',auth('hotel')->id())->whereMonth('check_in',$month)
    ->whereYear('check_in', $year)->sum('total');
}
}

```

5.2 Testing

5.2.1 Testing Implementation

Is the process of putting a strategy into action. Before it can be implemented, the strategy must be finished and the target must be determined. Any activity mentioned in the plan is evaluated for success.

Test Case	Input	Expected Outcome	Obtained Outcome	Pass/Fail	Test On
Registration	Register Name, E-mail, Password, Phone	Register Successful	Register Successful	Pass	20/4/2022
Login	E-mail, Password	Login Successful	Login Successful	Pass	20/4/2022

Booking Request	Request	Request sent successfully	Request sent successfully	Pass	1/5/2022
Booking accepted	accepted	Request accepted	Request accepted	Pass	10/5/2022
Manage	Create, Read, Update, Delete	All operations work	All operations work	Pass	15/5/2022

Table 5-2. Testing Duration

5.2.2 Testing Report

This test report is required in order to acquire formal test results, allowing for a quick and detailed review of the results. It's a report that uses data from the patch test office to explain the environmental and operating circumstances, as well as how the test results compare to the test objectives. The test report is quite important, and you must comprehend it. The test report is vital because you need to know whether or not the equipment is ready. It's a text that documents the results of a research study:

- Registration Test
- Reversion Tests
- Safety Tests
- Practical Tests
- Presentation Testing
- Usability Tests
- Scalability Testing

Here are some benefits of testing.

- Make the UI better and simpler for interaction.
- Improve The functionality of the application.
- Enhance the system's performance
- Make the system very easy to use.

6. Chapter

Six

6.1 Conclusion

In general, the aim of this graduation project was to interact with the real project to gain a lot of experience to be able to face the labor market. And exactly that happened. Now we have enough knowledge and experience to work in companies, in addition to real co-operation with teamwork without any barriers.

In particular, we succeeded in releasing a Hotel management system based on a business-to-customer (B2C) business model. and directing our motivation to produce it in the best possible way.

However, what can be concluded is that there probably is a good idea for a system, but its bad implementation causes it to be underutilised. In addition, targeting the users' requirements and working to meet them is the main reason for the success of any system.

6.2 Future Work

We are looking forward to having our system in the Egyptian market and have to ability to provide our system with all hotels in Egypt. There are some future features that we wish to add to our application, for example, and not as a limitation: -

- Make our application available on IOS, not only on Android.
- Adding price for service and adding payment methods in the application with a VISA, Master Card and providing a wallet in our system to save money on.
- Activate an advertising system in our system such as Google Mobile Ads in the user's application

6.3 References

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