

RentFolio: An online space renting management system

by

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A project report submitted in partial fulfillment of the requirements for
the degree of Bachelor of Science in
Computer Science and Engineering

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Date, October 2021

DECLARATION

This internship/project report is submitted to the Computer Science and Engineering, University of Liberal Arts Bangladesh in partial fulfillment of the requirements for the degree of Bachelor of Science. So, I hereby, declare that this internship/project report is based on the surveys found by me. Materials of work found by other researchers are mentioned by reference. This internship/project report, neither in whole, nor in part, has been previously submitted for any degree.

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CERTIFICATE OF APPROVAL

The project/internship report entitled “Title of Your Work” is submitted to the **Computer Science and Engineering**, University of Liberal Arts Bangladesh, Dhaka in partial fulfillment of the requirements for the degree of Bachelor of Science.

Dated: October 2021

Head of Department
Computer Science and Engineering
University of Liberal Arts Bangladesh

Signature & Date

Supervisor Name
Computer Science and Engineering
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Signature & Date

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First and foremost, I will express my earnest gratitude to Allah Almighty for giving me courage and motivation during the entire period of completion of the project.

Noteworthy appreciation to Dr. Nafees Mansoor Sir, my supervisor, for his support and encouragement. His guidance for the One Semester Long Project and advices helped me through everything.

I want to express my great appreciation to the teachers, academic, and stuff of our division for their co-operation throughout the semester.

Finally, I would like to acknowledge, with due respect, the persistent support and patience of my parents.

Recapitulation

Bangladesh Is developing technologically and making big steps ahead, even the most rural areas are now having internet access and facilities. I came up with the idea of developing an online web application for renting in order to spread even more the use of available technology and reduce the renting hassle. The purpose of this project is to allow the landlord/host/owner to post their space rental in a selective area and allow tenant/renter to find their desire area around the country. I would also want to encourage people to make proper use of their properties, take care of the environment and circumstances, associate with others and to contribute to activities that empower the community.

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Chapter 1: Introduction

1.1 Introduction

Renting business based on sharing economy is enlarging its domain in the business market thanks to globalization and development of technology. The easy and inexpensive access to internet accelerated the growth of the sharing economy business model around the world and everyone, just at a cost of will, can get into a business and make their fortune. Bangladesh in comparison with other countries, is quite behindhand. Here we are not comfortable enough with such model of business. We still believe in the traditional ways, else it's not business, despite technology has reached up to the most rural areas of the country. However, it's not our fault but it's due to lack of trustable platforms and service standard. Let's put aside the business model and pay some attention to, a platform very known and used by almost everyone, Facebook. Why is Facebook so popular in a country like ours, yet it's a social media developed in a country far away from us? well, it has a bunch of characteristics which has been developed year by year, it has studied what its user wants:

- 1) security and safety (your account, posts, photos are protected)
 - you can report to the authority
 - you can block whoever you think a harmful person
 - your privacy is taken care of
- 2) easy access (accessible with multiple devices and few MBs)
- 3) come closer to the farthest corner of the world
- 4) entertainment and self development
 - there is something new from the system, different features that makes the user curious
 - you can initiate a business, educational group and much more on it, so your time is not wasted
 - you learn engaging with people (known and unknown).

All these features motivate people to use this platform and make them curious more.

Therefor a system developed by taking care of safety, security, privacy, need and efficiency would attract user. As per our country's situation a renting platform would eliminate a number of hassles, would encourage people toward online earning rather than waiting for a job, hence unemployment would reduce and turn the society into a more active and productive one.

1.2 Motivation

Online based property renting system is not a brand-new idea , on the contrary it has been a successful project in foreign countries for a long time now. One such existing platform is "peerspace", it caught my attention while I was looking for spaces for multi-purpose use and house rent for short time; on the other hand we could not rent our properties since we did not have known people around those specific areas. Unfortunately, peerspace, having their headquarter in the USA services are not accessible in Bangladesh yet. Along with an efficient service they provide up to \$ 1million insurance coverage for general liabilities, guest and host have to upload their picture and they review each other, therefore you would know who you are dealing with, moreover they have a support team available 24 hrs. Some available platforms in our country are bproperty, bari bodol, and Airbnb e, but most of them work like a renting agency, without any insurance or safety and security guarantee, and others use foreign currency for payment. Taking into consideration the efficiency of existing platforms I got motivated to attempt toward developing one similar platform in order to improve and facilitate the process of renting anytime any sort of space as per your need.

1.3 Objectives

- Provide a trustable platform for renter and property owner
- Facilitate the process of renting
- Eliminate/ Reduce the rent cost variation based on area
- Eliminate any kind of discrimination (bachelor, student, business holder, job holder, racial etc...)
- Provide an improved service from those existing.

1.4 Expected Outcomes

RentFolio is my project on online short-term, long-term property renting platform.

My first aspiration is to make this project a success through:

- A smooth and simple responsive web-based application ,easy to use.
- All information and detail would be available on the web so there is no need of any operator, and users can chat with each other.
- Safety issues can be solved primarily by visible reviews and ratings
- Insurance facilities available for those who wants
- Support system 24 hrs for any emergency

- Attracting and various choice for every type of property
- Facilitate interaction among users (virtual meetings, online activities, online/offline events, community projects etc...)

1.5 Project Management and Finance

Factors that would affect the cost of Web Development in my project are:

- Web hosting
- Domain
- Content creation
- Graphic design
- Web development
- Marketing and others

The Rent of a Web Host is a main factor because it will influence the potential performance of the site, and you are required to pay fees for however long you own your website. Usually its cheap, around \$20-\$30 per month. Email marketing and social media marketing may cost around \$ 600 per month. And web- developer cost may vary \$400 to \$1800 at a large scale. There will be a minimum cost of around \$1200 to make the project run.

1.6 Report Layout

The entire report consists of 7 chapters.

Chapter 1:	it is an introductory chapter containing my motivation and goals for the project idea with its development cost estimate.
Chapter 2:	this chapter is dedicated to a comparative study of similar platforms around the world, along with their pros and cons. Also mentioning the scope and challenges of the project.
Chapter 3:	Dedicated to requirement specification and diagrams such as Use Case Diagram, Class Diagram, ER diagram, Data Flow Diagram and Activity Diagram.
Chapter 4:	Contains Design Specification, Front-end, Back-end and

	Description of the Laravel framework.
Chapter 5:	dedicated to Testing and analysis
Chapter 6	Dedicated to the impact of such projects on society
Chapter 7:	dedicated to future vision of the project

Table 1: Report Layout

Chapter 2: Background

2.1 Preliminaries/Terminologies

CSS= Cascading Style Sheets

JS= Java Script

HTML=Hypertext Markup Language

XAMPP= cross-platform, Apache, MySQL, PHP and Perl

Sharing Economy= P2P activity based economic model.

Airbnb= Air Bed and Breakfast

2.2 Related Works

My primordial project idea was based on the existing platforms using the shared economy such as Uber and Airbnb. While doing researches on them I came up with a similar idea, that is developing a system for renting any property that we own but don't use them fully. For example I have 10 car parking places in my garage that are not used by my tenants, and these can be used by others maybe during the rush hours in the area, reduce the traffic jam, and some extra money would be earned. Hence, I started to look for how these type of systems work and how do they deal in such business, around the world. I have started studying many similar cases like: Airbnb, Booking.com, Homeaway, Bproperty, Bari Bodol, Fairbnb, and many more.

2.3 Comparative Analysis

Cases	Features	Pro.	Cons.
Airbnb: one of the most recognized vacation rental apps that promises to give "unforgettable travel experiences".	- Company earns by charging both sides (host 3 percent & guest 9-12 percent) - No fix charges on the website but they charge nightly, daily or monthly.	- Application is easy to use. - You can search listings, make a reservation, and look at local experiences, just like in the	- You can not use the app without creating an account. - you have to use the website to browse the listings. - the app doesn't display a full price—only a "nightly" rate that looks

	• Company has almost no cost because (repair, maintenance, quality check, work force like receptionist) are paid by the host. • They need to entice hosts to offer unused or underutilized space to guests • Close association with freelance photographer (who photographs the properties) • They need to entice guests to book their holiday accommodation on the networks • Build trust and maximize the possibility of successful booking (online rating platform where host and guest can rate each other) • List the properties and provide insurance • Global presence in more than 190 countries, 1500000 listings, in 34000 cities • Robust, up to date, and effective information system	web. • It lets you set parameters like your dates and number of guests and easy communication with your hosts. • Its user says it's a great app, simple and easy communication.	comparatively low. Once you book, there hidden charges. • Payment is done online.
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Booking.com	• access to over 27 million options around the world. • has a lot of travel inventory. But it specializes in accommodations. • owns a variety of online travel companies, including Agoda, Cheapflights, Kayak, Priceline and Rentalcars.com.	• easy and fast interface. • You can specify your desired destination and dates. • There is no hidden charges.	• Its rental inventory is limited in the United State • Expensive • by default the app tries to put you in a hotel. • They take no responsibility for the presentation of a property on their webpage.
HomeToGo	It is a vacation rental aggregator with over 17 million properties from all of the major sites, including Airbnb, Booking.com and Vrbo.	• Unlike Airbnb you can have a quick overview of the available space in the app	• ads and inaccurate prices • you are redirected to the website to make reservation
Bproperty	the largest real state market place in Bangladesh	It has a large number of properties displayed inside Dhaka city	few choices and varieties, they often can't give you satisfying answer to your queries. There is no direct contact with the host. No review and comment section. Rent prices are high.
Baribodol	Another renting platform with 460 rents from 12 plus categories	it has categories such as bachelor, only male, only female. Direct contact with the host. Budget friendly stay available	no variety, no review system, no security and assistance guarantee. Not a robust, up to date, and effective information system.

(Table 2: Comparative Analysis)

2.4 Scope of the Problem

I divided the entire project development mainly into two modules: Admin module and User Module. The admin module has some submodules: property type, property, customer and booking. The

development of Admin module is complete. While the user module is yet to be completed.

2.5 Challenges

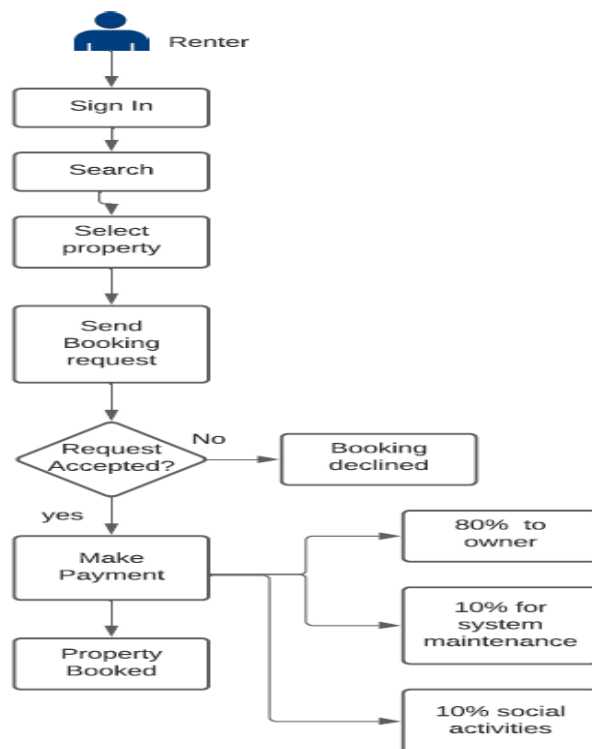
The entire project was a challenge that I wanted to face because I have always been interested in web application development. I had to deal with a new framework (Laravel) and I had to dedicate a lot of time to understand the structure and learn new things like how to use bootstrap frameworks. It was totally new for me but I have found it quite interesting and I want to keep working with it in the future.

Chapter 3: Requirement Specification

Requirement specification is a form of writing the user's requirements and system's requirements, it can be used while making contract for the system development.

3.1 Business Process Modeling

“RentFolio” is an online web-based application for property renting. It will let the user search for any type of space they need, they can book a property and rent it for long or short term by making the payments clear. Users can also advertise their available property, which has to be approved by the admin, and get it rented.



(Figure 1: Business Model Diagram)

3.2 Requirement Collection and Analysis

1)Admin can:

- Register, Log in, and log out.
- Edit and beautify their profile
- Access user's data
- Can see the reviews and replay if there is any query.
- Deal with the Emails
- Edit, remove, approve user's posts
- Accept or reject users submitted property
- Have a view of the posts approved
- Have access to the accounts (if the payments are clear or not)
- Set the insurance amount based on each property

2)User can:

- Register, log-in, log-out.
- see advertisements of the available properties
- search for their needed space
- write reviews
- book spaces earlier
- make sudden book
- rent space
- post advertisement for their own properties
- post properties with insurance and without insurance
- do the payments online or cash

Non Functional Requirements:

- Efficient Performance
- Reliability
- Scalability
- Capacity
- Availability
- Recoverability
- Maintainability
- Security

Hardware Requirement:

- Processor: intel/AMD core i5, 1.60 HGz speed
- Memory: 8 GB RAM

Software Requirements:

- Operating System-Windows 10

- Xampp version greater than 7.2
- Git
- Visual Studio Code
- Microsoft Office Power Point-for presentation
- Microsoft Word- for documentation
- Lucidchart for diagram design

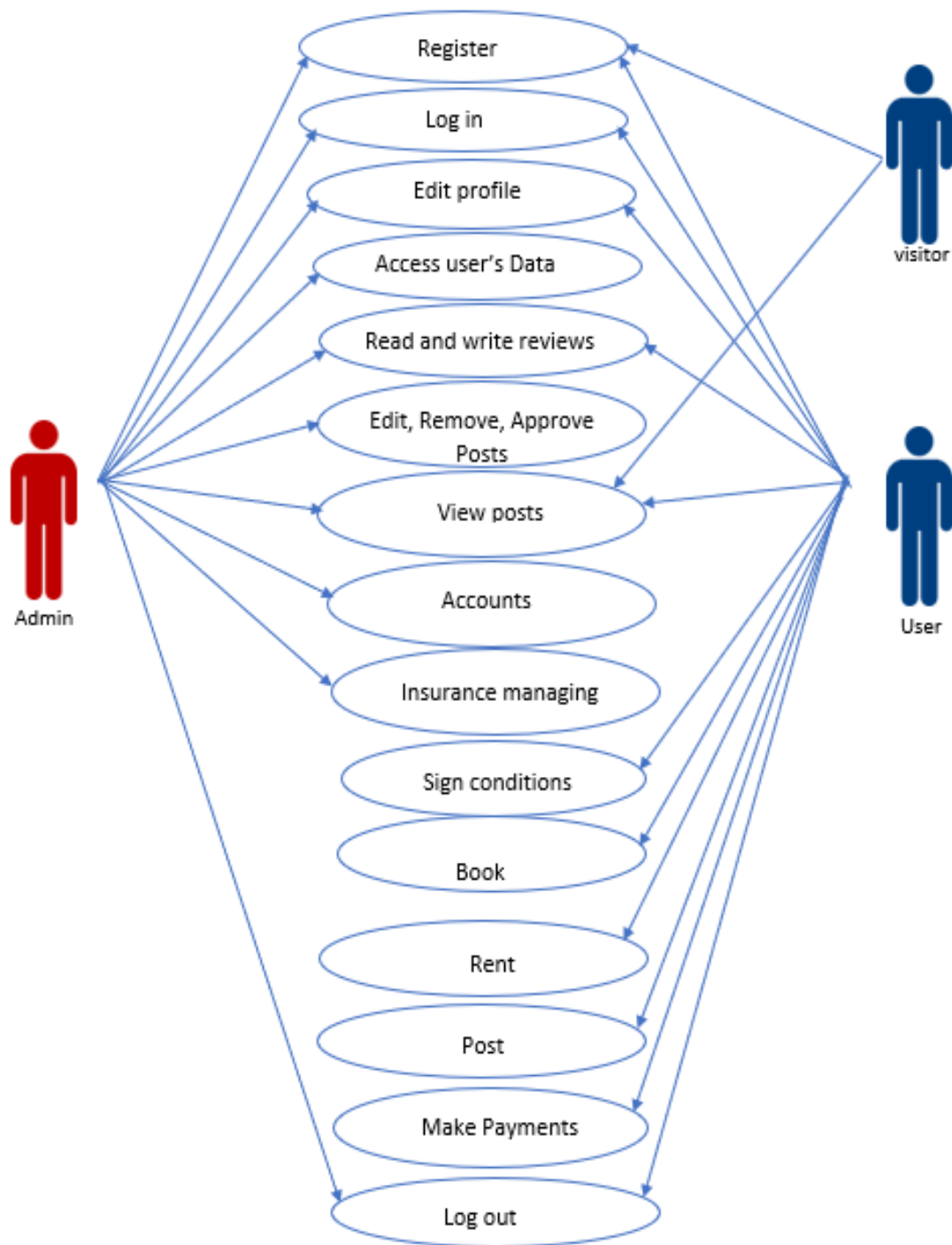
3.3 Use Case Modeling and Description

Tabular description of the ‘Transfer Data’ use-case

Actors	Registered user, Admin, Visitor
Description	Admin can transfer data from the system to a general user record database and properties record database which are maintained by the admin itself. The information transferred can be updated and deleted.
Data	User’s personal information, property details, Admin’s personal information.
Stimulus	User commands issued by admin
Response	Confirmation that the system has been updated
comments	The admin must have appropriate security permission to access the user’s information.

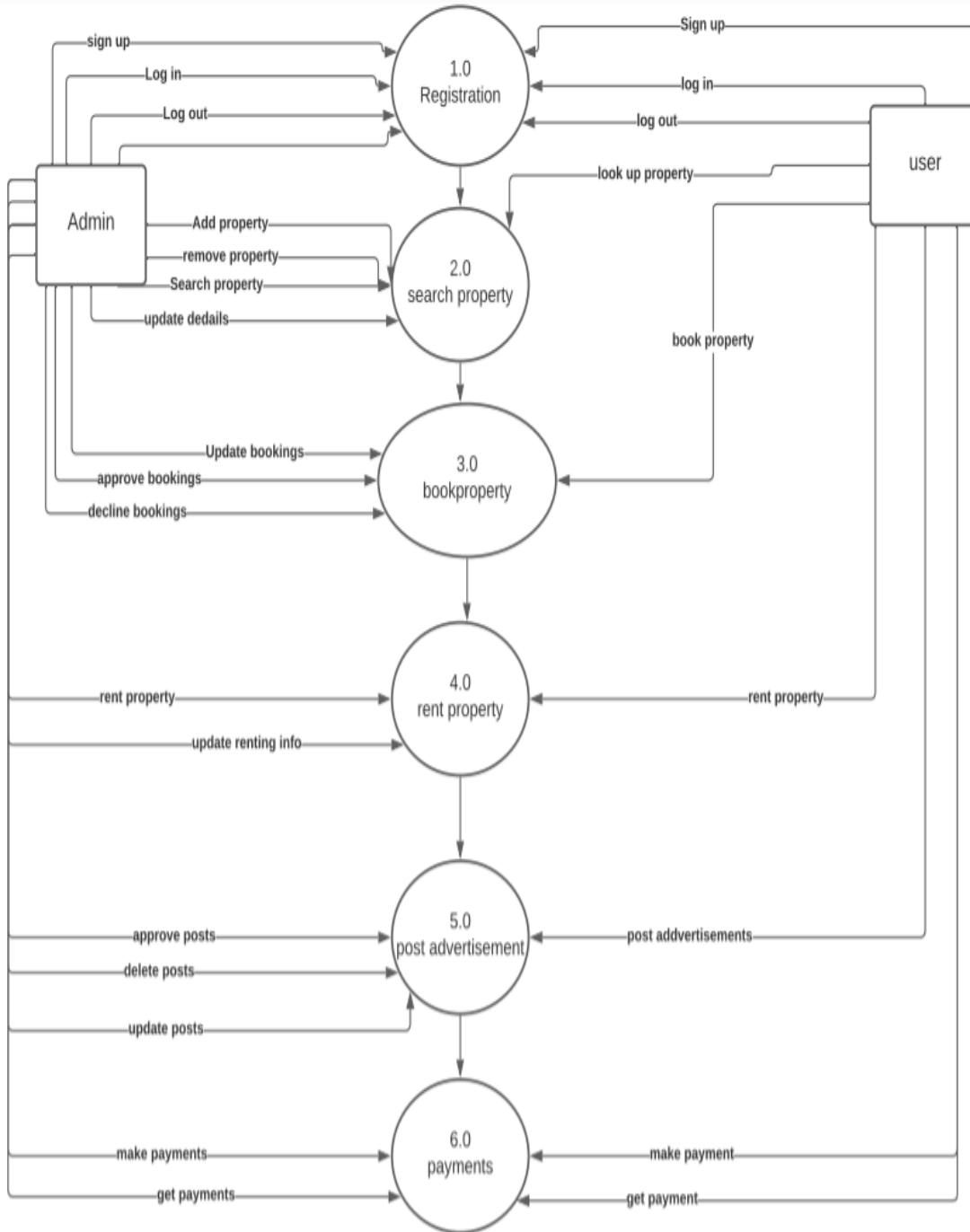
(Table 3: use case data transfer description)

Use Case Diagram: possible interactions of admin, user and visitors with the system



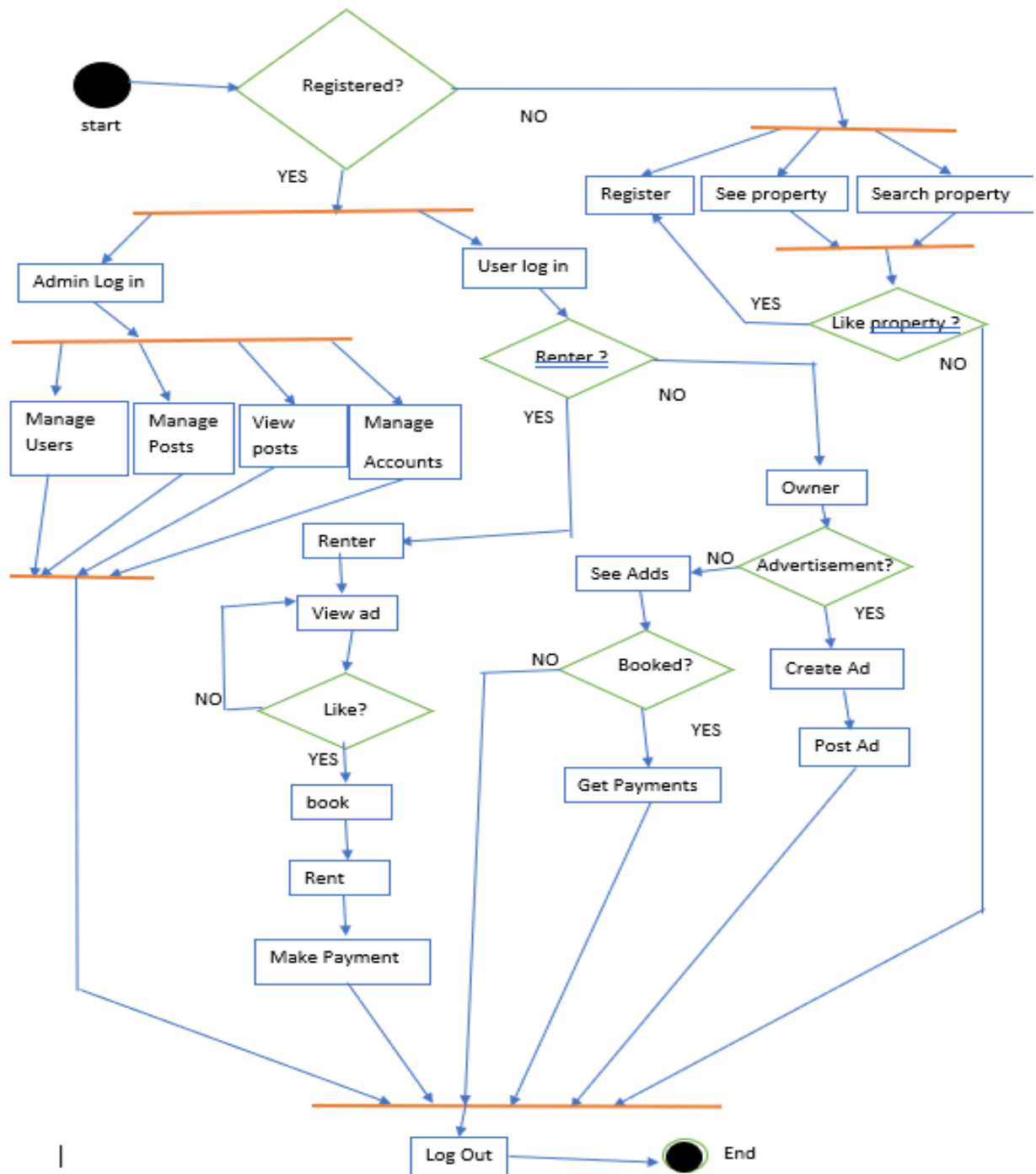
(Figure 2: Use Case Diagram)

Data Flow Diagram : flow of information for any process or system



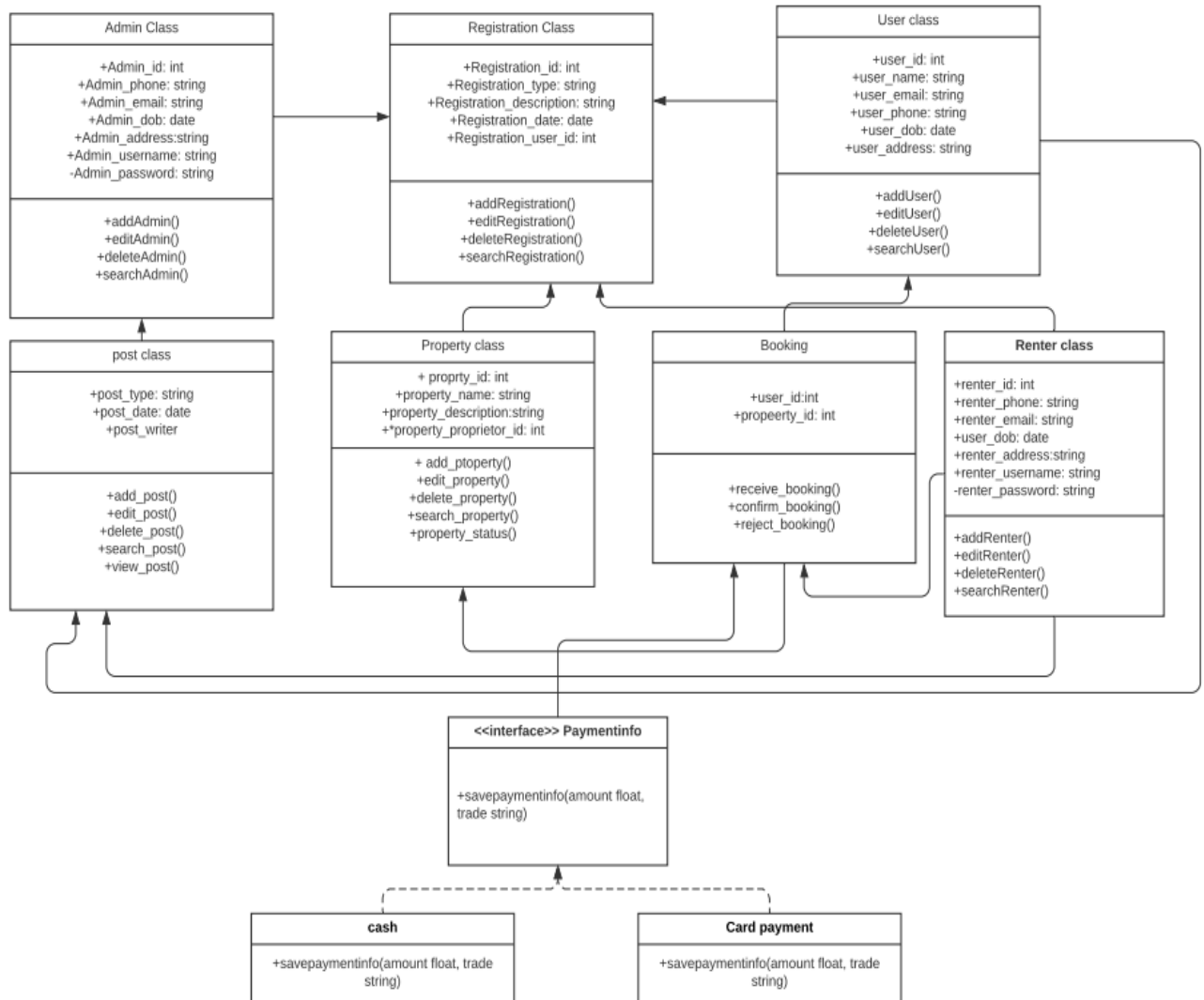
(figure 3:Data Flow Diagram)

Activity Diagram: behavior of the system



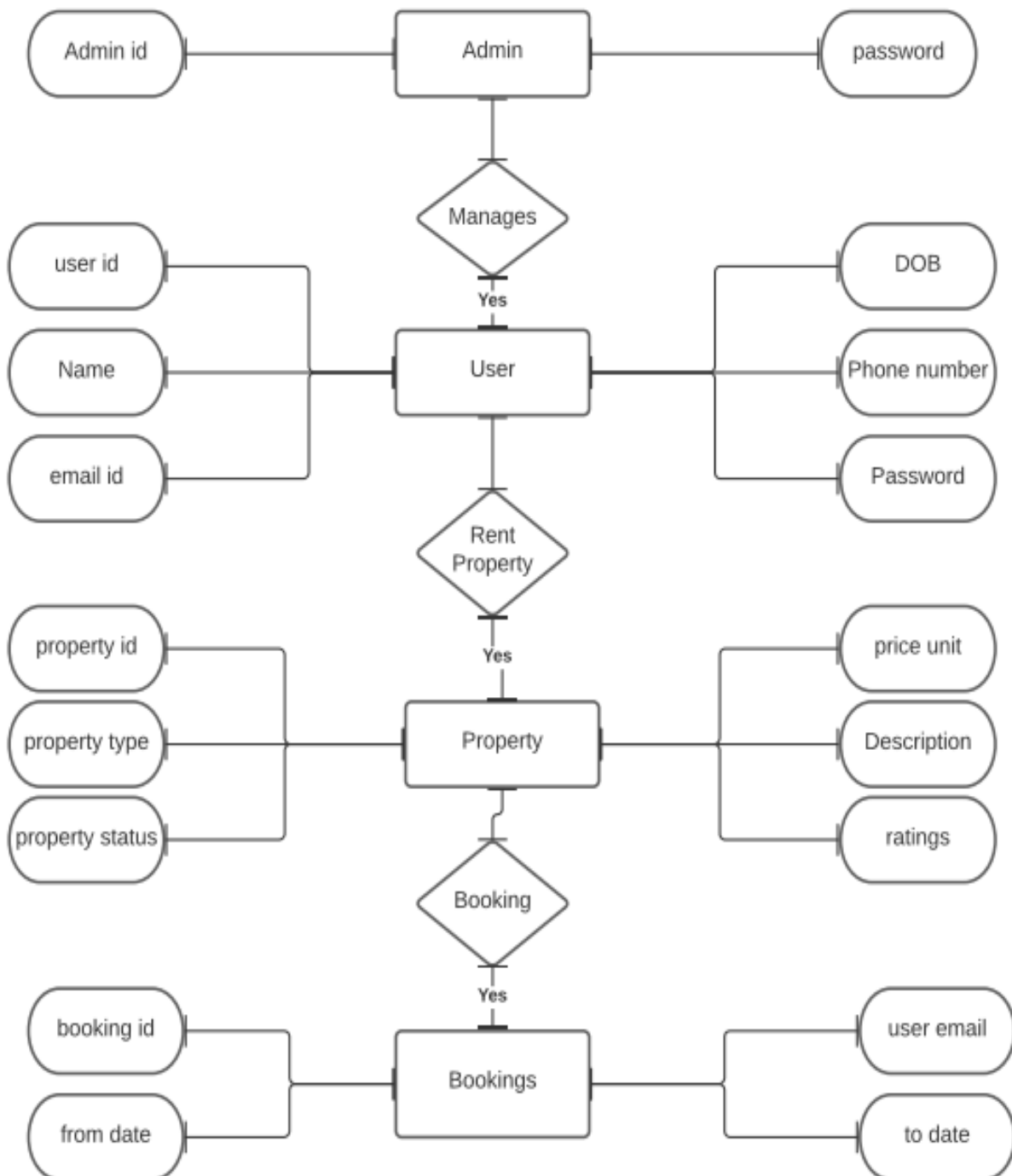
(figure 4: Activity Diagram)

Class Diagram: relationship among the classes



(figure 5: Class Diagram)

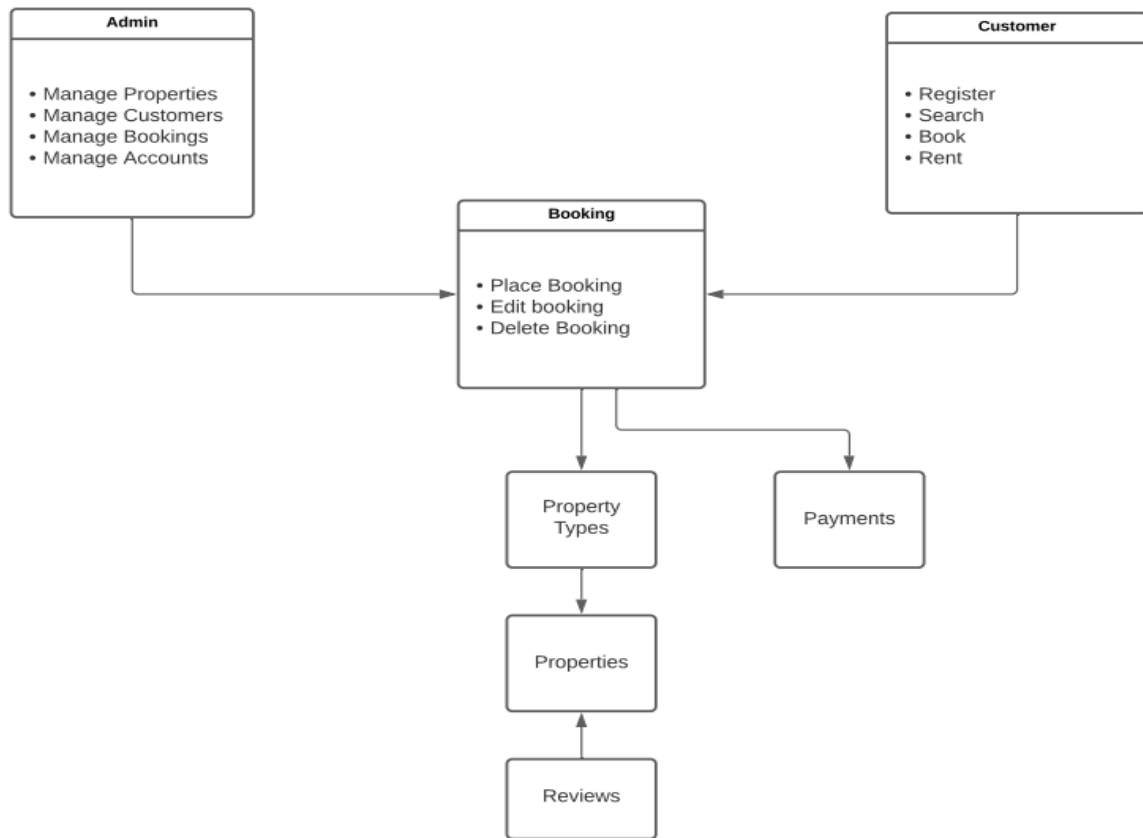
Class Diagram: relationship among the classes



(figure 6- ER- Diagram)

3.4 Logical Data Model

The logical data model represents the data processing modules that provides foundation for database design and makes data reuse easy. It is used for data analysis and process easily.



(Figure 7: Logical Data Model)

3.5 Design Requirement

This public property rental program that will allow customers to select properties of their choice, determine their preferred location and pay for their rental via the web. The web application will use a relational database that will manage the majority of the web site's content. Through the website, potential customers can view the various spaces that are offered in the area selected. An SQL database will be implemented and Encryption will be used to secure sensitive data such as password.

- The web site uses English language
- Easy to navigate for people with minimal knowledge of the internet and web pages

- Directions are easy to understand and read
- Font type and size are easily readable

Chapter 4: Design Specification

4.1 Front-end Design

Front-end Design requires :

- **HTML** (markup language used for the designing of documents to be displayed in a web browser)
- **CSS** (stylesheet language used to style the HTML documents)
- **JS**(scripting language that allows you to make your style dynamic)

The front-end design of this project is done by using HTML, CSS, JS, and bootstrap framework. There are navigation bar, sidebar, forms, buttons, pagination and search option. Each page has features like add new property, add new property type, property views, submitting buttons, and much more.

4.2 Back-end Design

Back-end Design refers to the server side development, it focuses on database, scripting, and web-side architecture. Here the logical functions begin to work. In my project Back-end Design is covered with PHP framework LARAVEL. The database connection uses SQL server xampp. MySQL database stores property type, property, property details and personal information of users.

4.2.1 Laravel

Laravel 8: an **MVC** (Model View Controller) web-development framework for PHP. It is designed to improve the quality of your software and to reduce development cost and maintenance costs. It is design with the philosophy of **convention over configuration**, it assumes many logical situations by default, hence you can accomplish your goal with less code. Anything that can be written in Laravel can be **packaged as a bundle**, and it allows you to browse bundles and showcase your bundles. It provides tools to **interact with database**, Laravel supports (MySQL, PostgreSQL, MSSQL, and SQLite) without any compatibility issues. Laravel also provide a command-line interface tool called **Artisan**, that permits you to interact with your application. Laravel has an easy managing routing system, it has built in HTML helper. It require php version greater than 7.2.

1) Why Laravel?

- Faster coding: ready framework, the foundation is ready there.
- Tested code: you can use tested code

2) You need to know:

- HTML,
- CSS,
- PHP basic,
- PHP object oriented

3) To install:

- Any web server environment that supports PHP (XAMPP)
- Composer: a dependency manager for PHP language it manages the dependencies of PHP software and required libraries
- PHP scripting language (interpreted language, translated into machine code)
- FileInfo and Mcrypt libraries that are installed by default
- Database, it supports MySQL, MSSQL, PostgreSQL, and SQLite
- Download Laravel from git repository or from their download link
- Keep a copy of the folder in order to fasten the process of creating a project using the command:
\$ composer create-project laravel/laravel laravel

4) MVC: Model View Controller, most of the functionality of your website are inside model or the controller while the aspect of your website is inside the **View** (html). MVC is a way of separating files. **Model** is usually a class file that connects to the database and read or save data there. **Controller** determines what the app (website) should do, it tells each model to what to do, so responsible for calling a particular model to do something. Same controller after receiving data from the model it will send to the view so that the user can see it. Then if the user sends some data, ex: they try to sign up, controller decide which model must handle the data, one done model will send the serult to controller which then will send the result to view.

5) Folders:

Artisan- it's a helper file that will help you to set things like creating controller, creating models etc...

Compose.json- contains all the dependencies that were created by composer. Composer will read this file in case you want to update your dependencies and it will download the required dependencies inside the **vendor folder**.

Vendor- is meant for composer to add the dependencies of the project.

.env- required for data connection

App- contains all the critical files, it is the main file. It contains the Kernel and main controller, and HTTP.

Bootstrap – app's file responsible for the view.

Config- you can do the configurations here, ex: change the name of the project.

Database- contains **Migration**, you can see your databases here.

Public- contain index file, it is loaded first.

Resources- here we load the js files, sass files, language file etc...all the view resides here, ex: welcome.blade.php file is here.

Route- contains web.php file, here we create all our routing files

Welcom.blade.php :- this blade is a template engine for Laravel.

4.3 Interaction Design and User Experience (UX)

Interface development deals with the user-technology interface process. To use a web application that is friendly and easy to use and to understand its interface needs to be very clean and user-friendly. UX means user experience, and as an interaction design, this variable is also significant. It explores the communication between a device and its user through an interface, and user experience (UX) development is the process of creating products that provide useful and personally important experiences. Taking these factors into consideration, I have tried to make the website easy and user-friendly on purpose.

4.4 Implementation Requirements

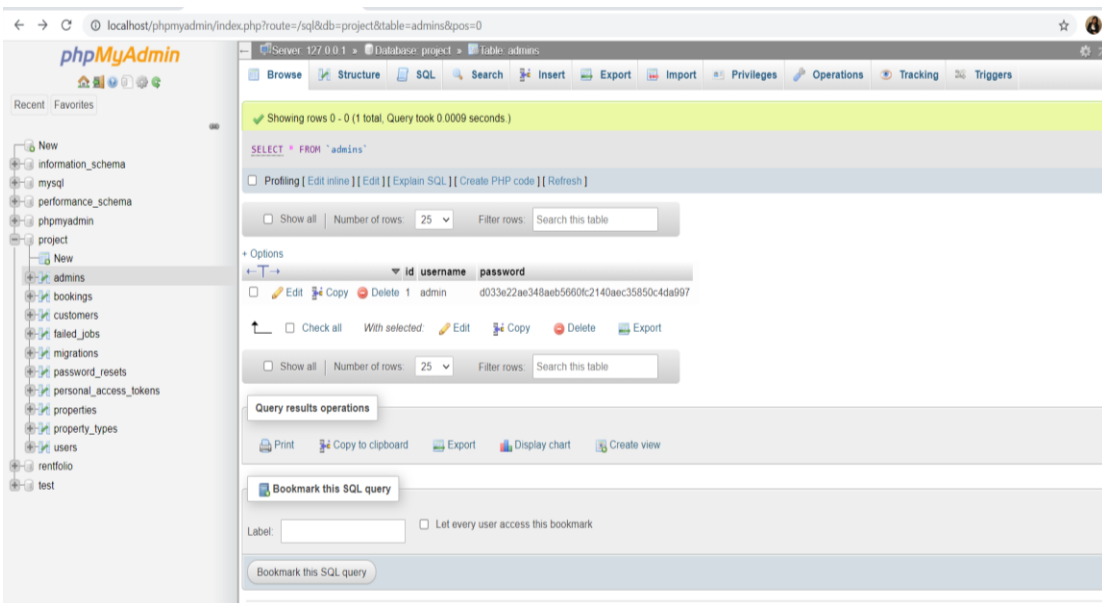
Implementation tools and software:

- **Xampp:** cross-platform, apache server, Mysql. PHP, Pearl programming language.
- **Apache:** an open-source cross-platform web server software
- **MySQL** (Structured Query Language): an open source relational database management system, it organizes data into one or more table.
- **Git** : a software used to manage source code.
- **Bootstrap:** free and easy front-end framework for web development
- **Visual Studio Code:** code editor by Microsoft

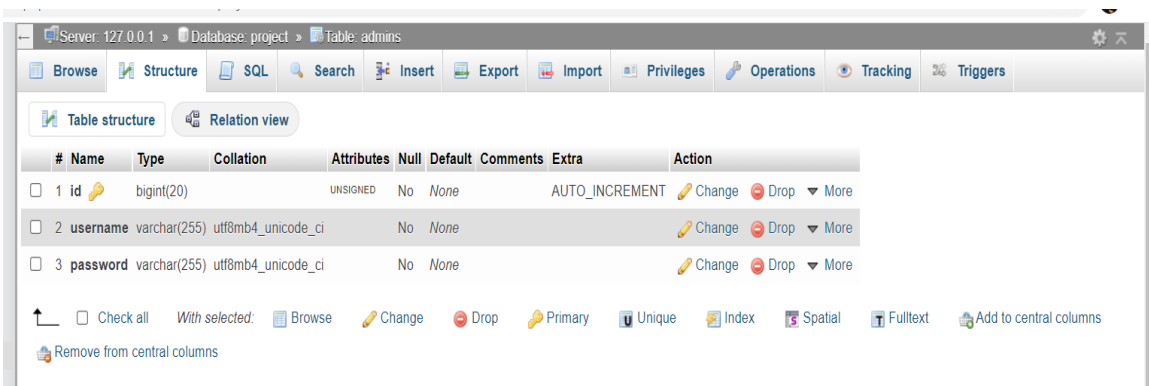
Chapter 5: Implementation and Testing

5.1 Implementation of Database

A database handles the requests made from the SQL interface, producing or modifying data in accordance to those requests.



(figure 8: Admin Table)



(Figure 9: admin table structure)

localhost / 127.0.0.1 / project / b: x New Tab

localhost/phpmyadmin/index.php?route=/table/structure&db=project&table=bookings

Server: 127.0.0.1 Database: project Table: bookings

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	bigint(20)	UNSIGNED	No	None			AUTO_INCREMENT	Change Drop More
2	customer_id	int(11)		No	None				Change Drop More
3	property_id	int(11)		No	None				Change Drop More
4	checkin_date	int(11)		No	None				Change Drop More
5	checkout_date	int(11)		No	None				Change Drop More
6	created_at	timestamp		Yes	NULL				Change Drop More
7	updated_at	timestamp		Yes	NULL				Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Normalize

Add 1 column(s) after updated_at Go

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	PRIMARY	RTREE	Yes	No	id	0	A	No	

(figure 10: Booking Table)

localhost / 127.0.0.1 / project / c: x New Tab

localhost/phpmyadmin/index.php?route=/sql&server=1&db=project&table=customers&pos=0

Server: 127.0.0.1 Database: project Table: customers

Showing rows 0 - 4 (5 total, Query took 0.1530 seconds.) [email: NA... - REQUIRED[EMAIL...]]

SELECT * FROM `customers` ORDER BY `email` ASC

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

UPDATE `customers` SET `email` = 'ponnauddin@gmail.com' WHERE `customers`.`id` = 16;

[Edit inline] [Edit] [Create PHP code]

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

	id	full_name	email	password	mobile	address	photo	created_at	updated_at
☐ Edit ☐ Copy ☐ Delete	2	Prince Uddin	na	123456	04899876	uk	na	2021-09-29 17:01:38	2021-09-29 17:01:38
☐ Edit ☐ Copy ☐ Delete	13	Ponna Uddin	na	1234	01987	dhaka	na	2021-10-05 09:38:36	2021-10-05 09:38:36
☐ Edit ☐ Copy ☐ Delete	14	Prianka Uddin	na	1234	01996070480	Dhaka, BD	na	2021-10-05 13:47:59	2021-10-05 13:47:59
☐ Edit ☐ Copy ☐ Delete	17	Prianka Uddin	priankauddin21@gmail.com	123456	01996070480	Dhaaka	na	2021-10-05 16:56:30	2021-10-05 16:56:30
☐ Edit ☐ Copy ☐ Delete	16	Uddin P	ponnauddin@gmail.com	1234	34567800877654332	dhaka	na	2021-10-05 16:53:49	2021-10-05 16:53:49

Check all With selected: Edit Copy Delete Export

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

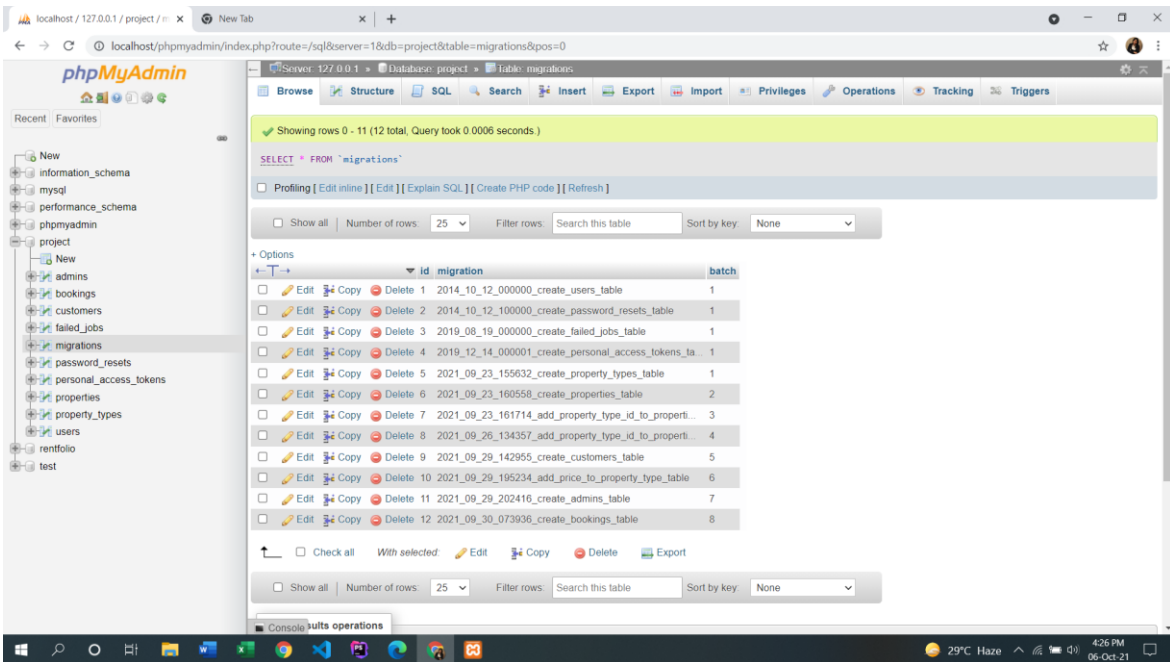
Query results operations

Print Copy to clipboard Export Display chart Create view

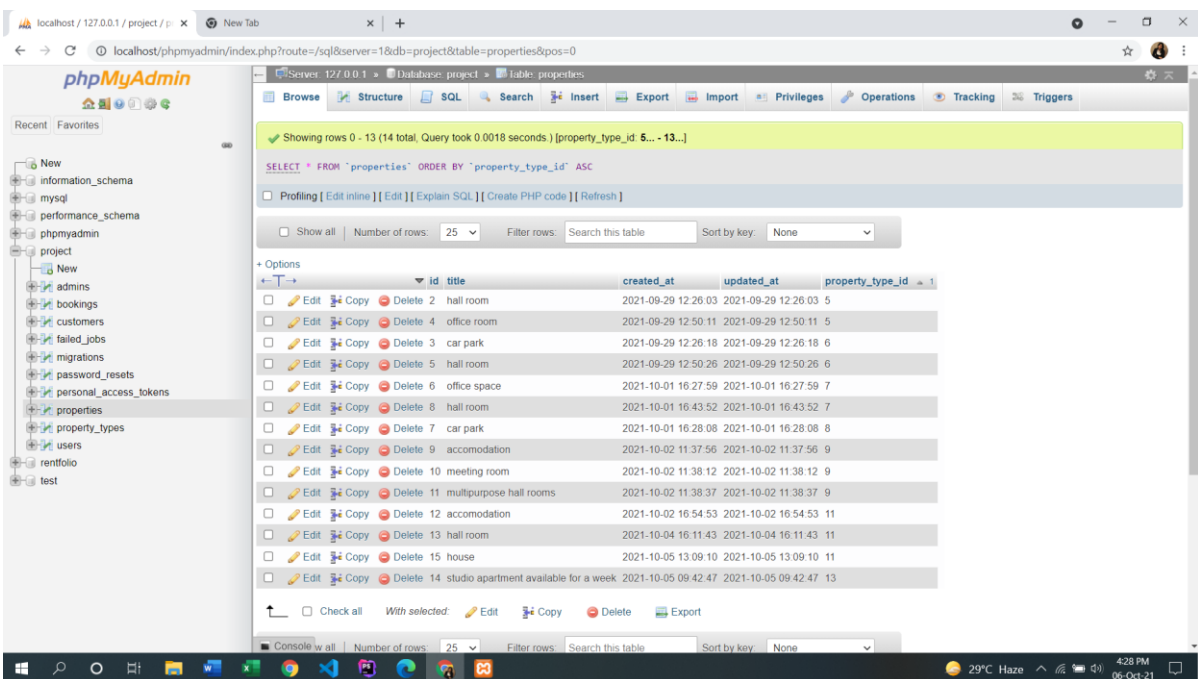
Bookmark this SQL query

Console

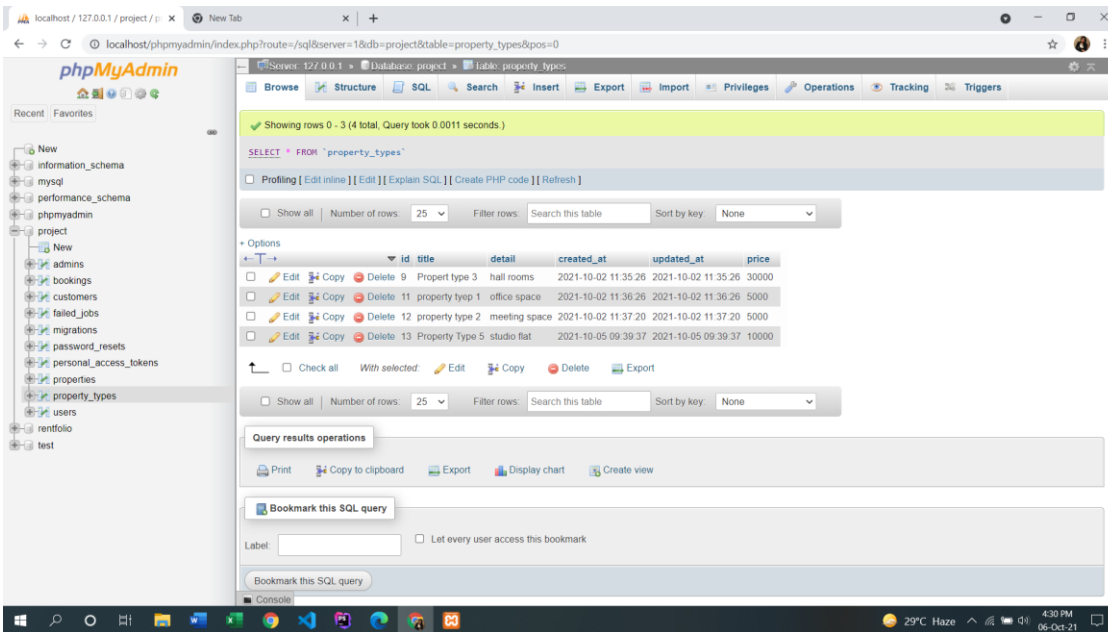
(Figure 11: Customer table)



(Figure 12: Migrations)



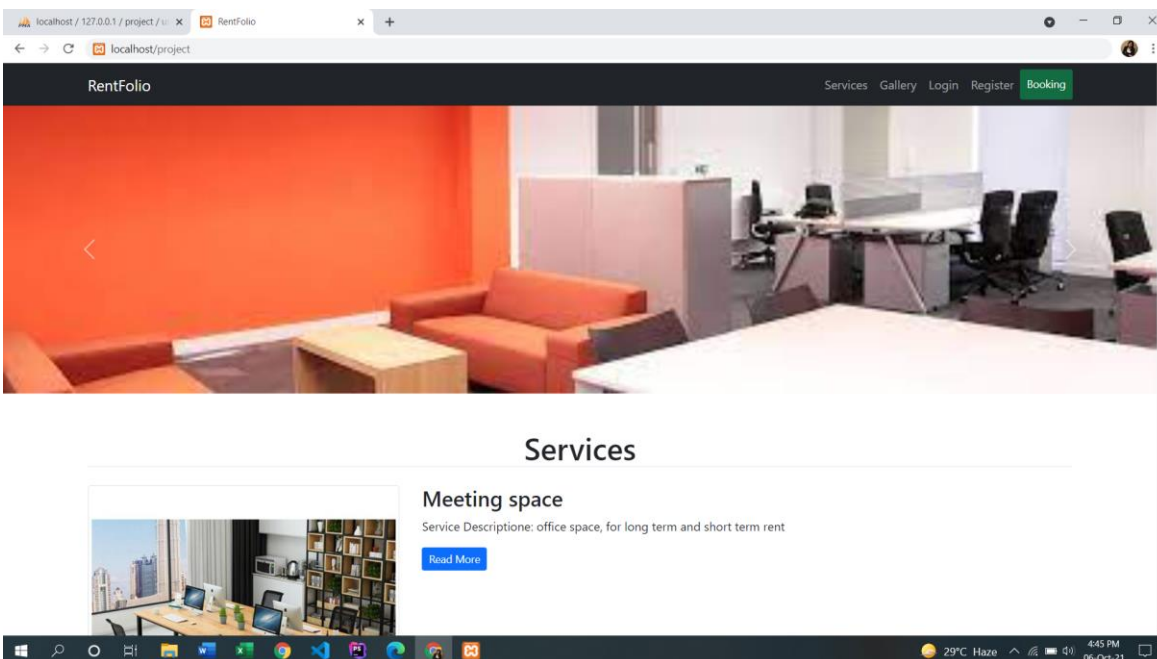
(figure 13: Properties table)



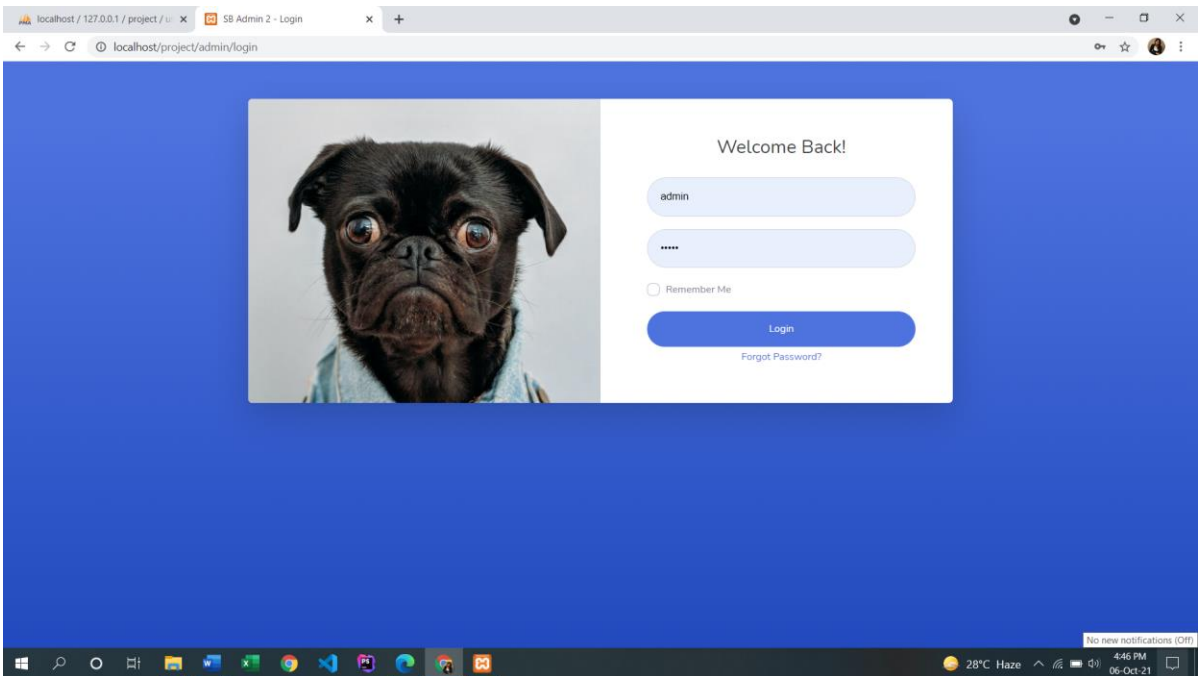
(figure 14: Property types table)

5.2 Implementation of Front-end Design

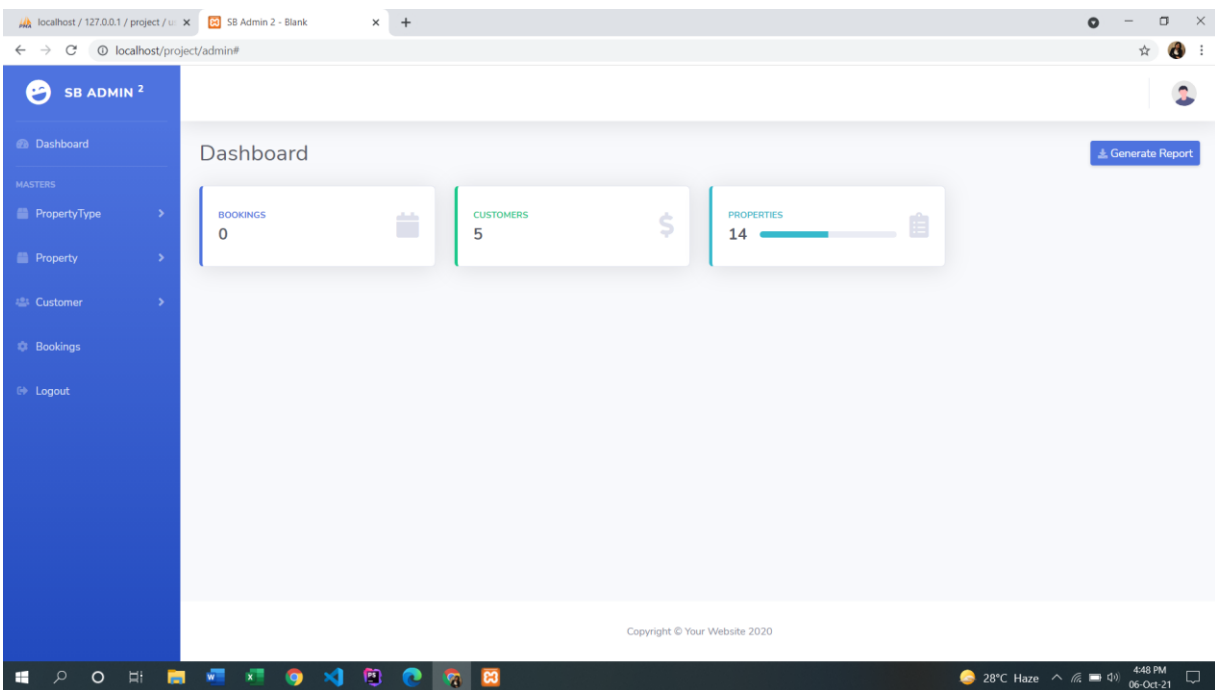
The scope of front-end Design is to turn designs into reality via code. It consist of UX design, Design System, and CSS framework and then it needs to be integrate with the back-end.



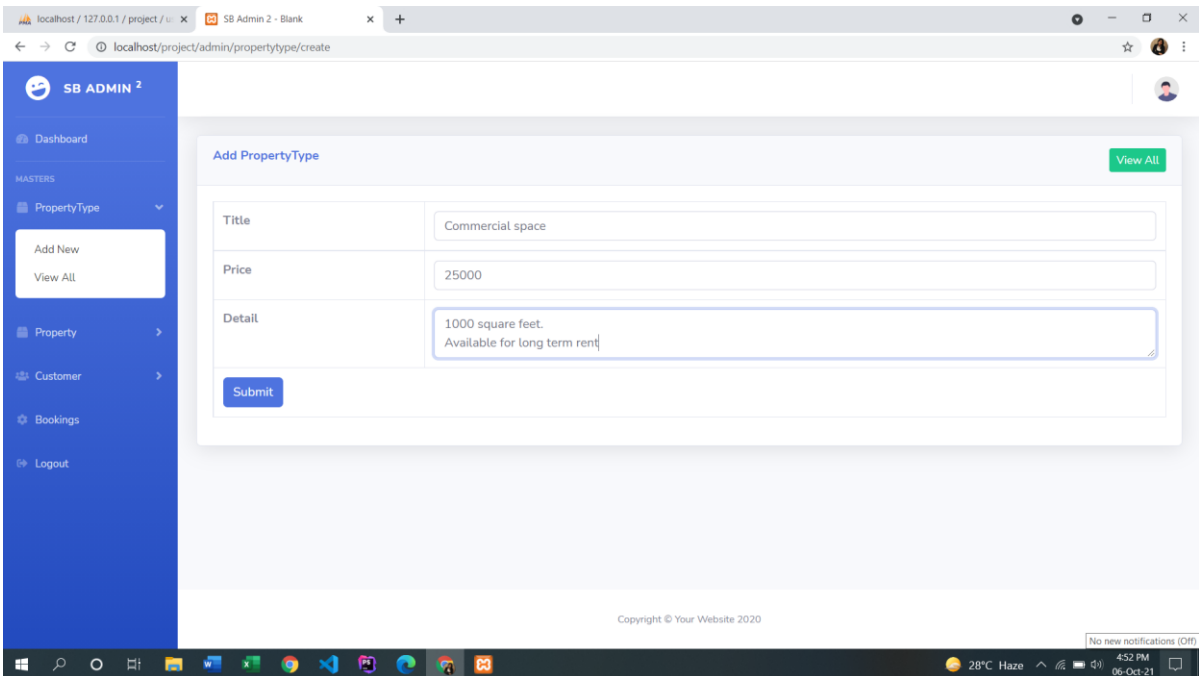
(figure 15: home page)



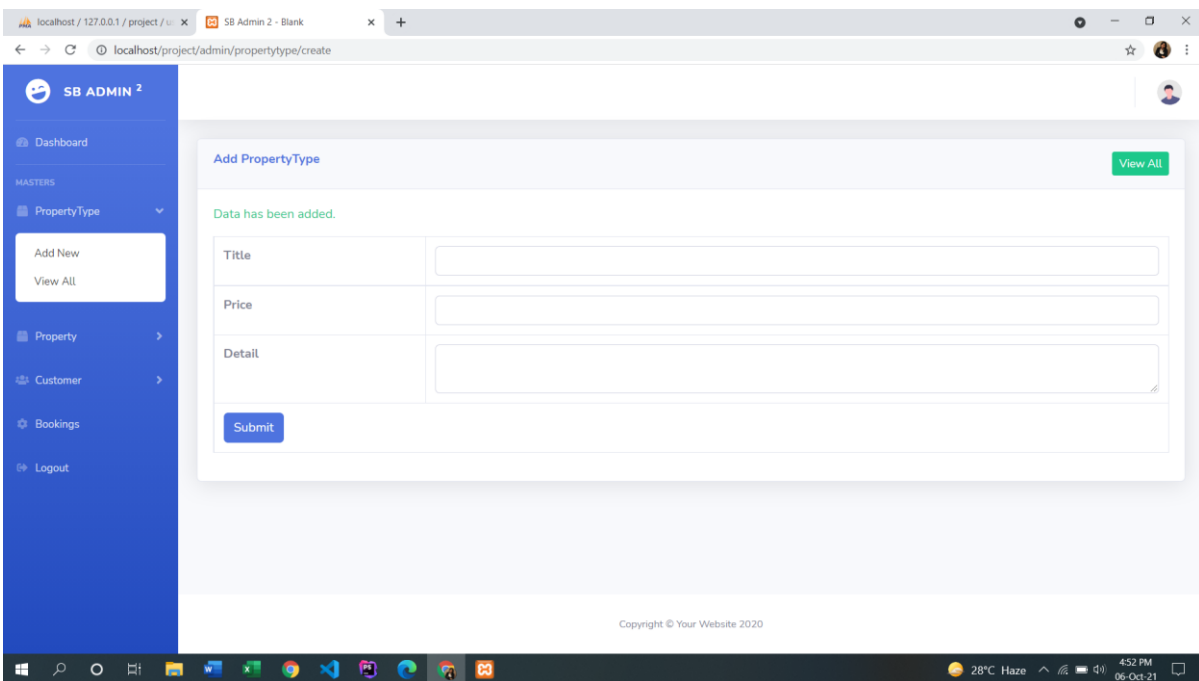
(figure 16: Admin Login)



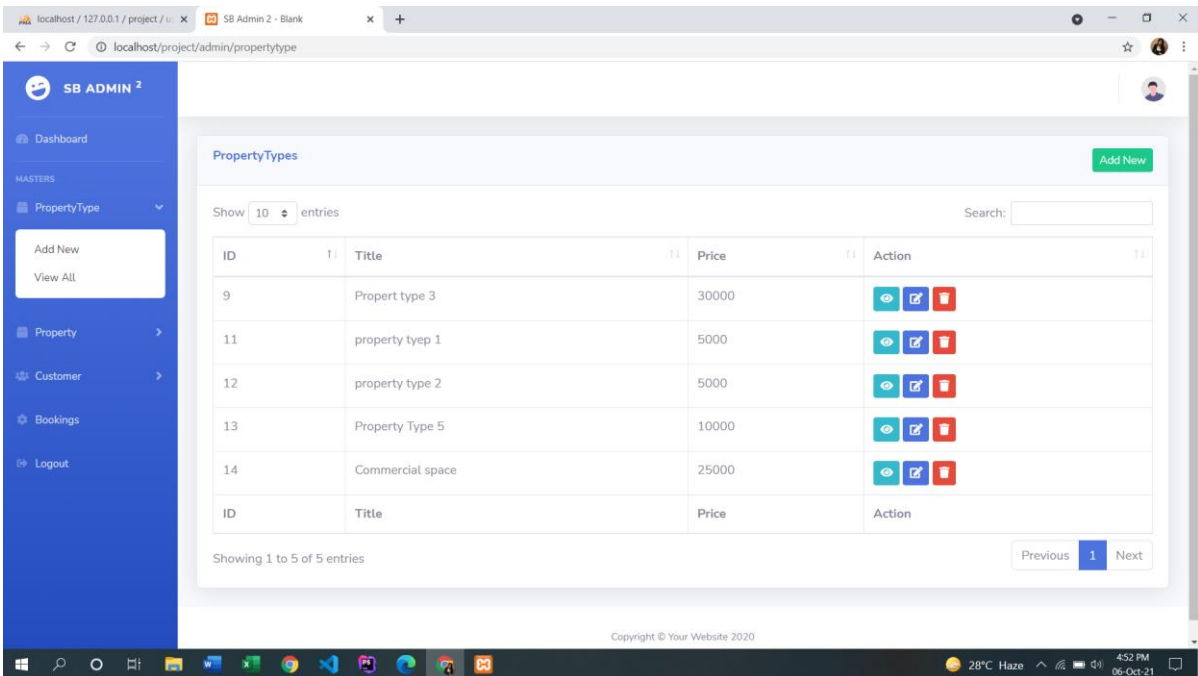
(figure 17: Admin page)



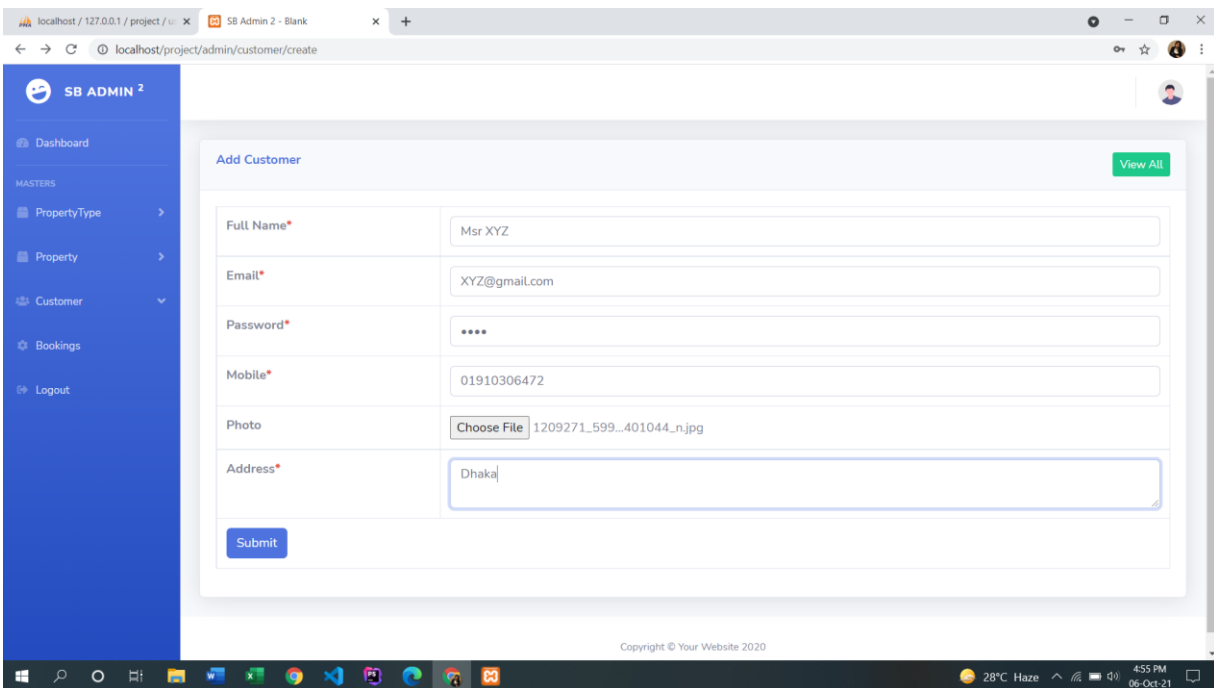
(fig. 18: Adding property)



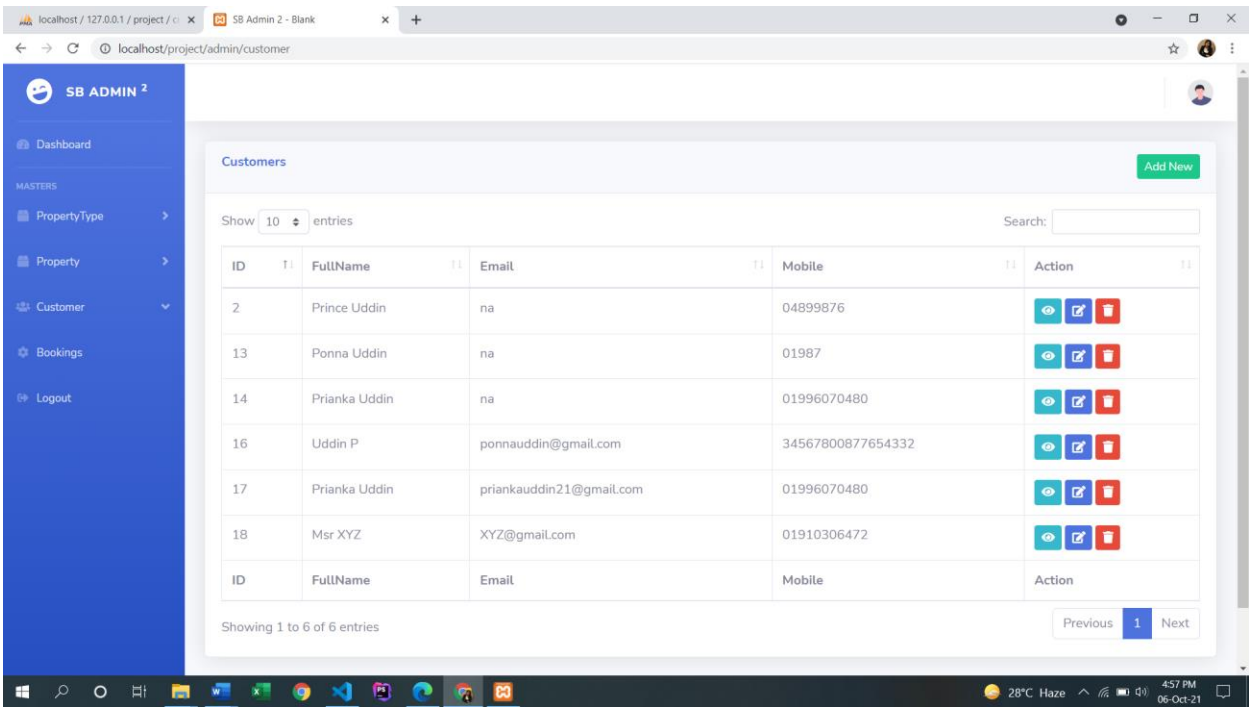
(fig. 19: property saved)



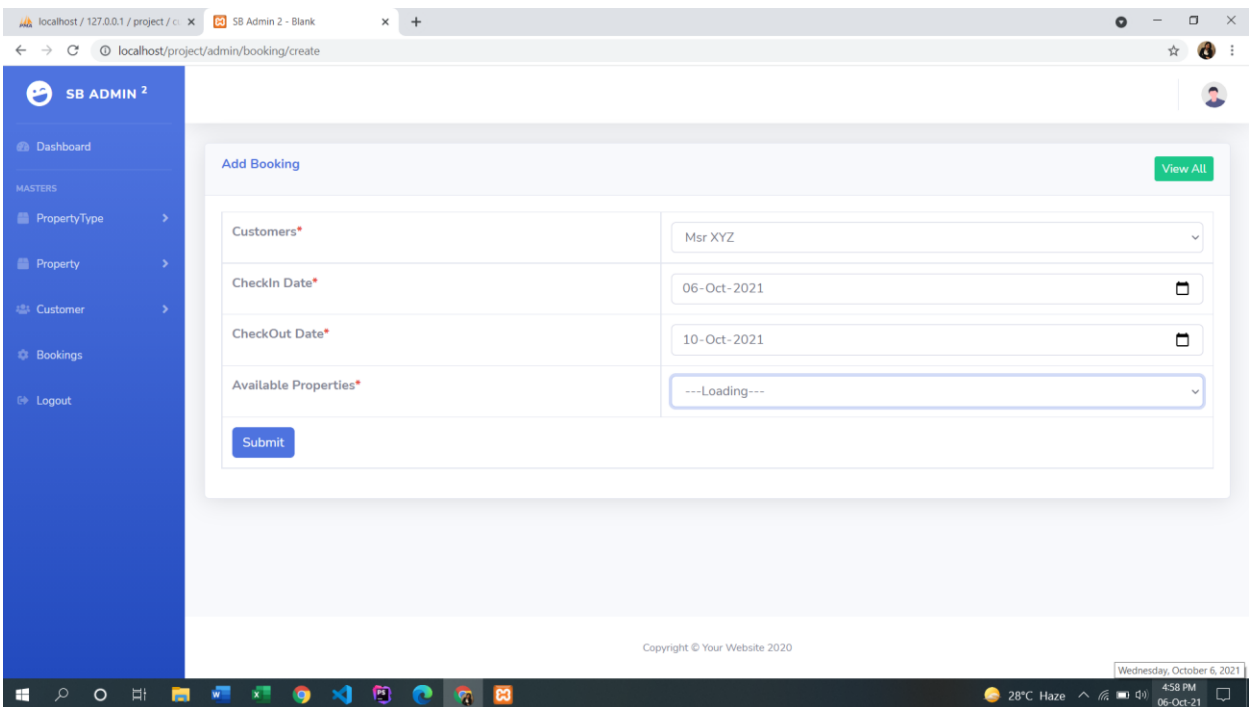
(fig 20: view all properties)



(fig 21: customer adding)



(fig 22: view all customers)



(fig 23: make bookings)

A screenshot of a web browser showing the 'RentFolio' registration page. The browser's address bar displays 'localhost/project/register'. The page has a dark header with the 'RentFolio' logo and navigation links: 'Services', 'Gallery', 'Login', 'Register', and 'Booking' (highlighted in green). The main content area is titled 'Register' and contains a form with five input fields: 'Full Name*', 'Email*', 'Password*', 'Mobile*', and 'Address'. Each field has a red asterisk indicating it is required. A blue 'Submit' button is located at the bottom left of the form.

Full Name*	
Email*	
Password*	
Mobile*	
Address	
Submit	

(fig 24: user registration)

A screenshot of a web browser showing the 'RentFolio' login page. The browser's address bar displays 'localhost/project/login'. The page has a dark header with the 'RentFolio' logo and navigation links: 'Services', 'Gallery', 'Login', 'Register', and 'Booking' (highlighted in green). The main content area is titled 'Login' and contains a form with two input fields: 'Email*' and 'Password*'. The 'Email*' field contains the text 'priankauddin21@gmail.com'. The 'Password*' field contains six dots. A blue 'Submit' button is located at the bottom left of the form.

Email*	priankauddin21@gmail.com
Password*	
Submit	

(fig 25: user authentication)

5.3 Testing Implementation

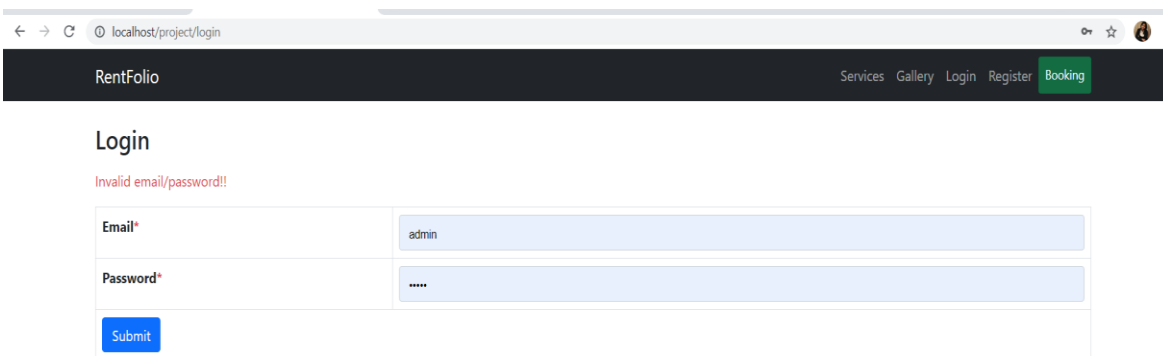
Testing is intended to show that a program does what it is meant to do and to discover any program defects before it is released.

When we test software, we execute a program using some artificial Data to check for errors and anomalies.

Incomplete versions of a system can be inspected, in that case you need to develop different approach to test the parts that are available.

In my project as you browse the web-side you will only be able to have a view of it. You can explore available properties, see images and read reviews.

To make any action you need to register, if you don't full fill any of the required elements registration will be denied. Also if you put wrong email or password your authentication will be neglected.



The screenshot shows a web browser window with the address bar displaying 'localhost/project/login'. The page has a dark header with the 'RentFolio' logo and navigation links: 'Services', 'Gallery', 'Login', 'Register', and 'Booking'. The main content area is titled 'Login' and features a red error message: 'Invalid email/password!!'. Below the message is a login form with two input fields: 'Email*' containing the text 'admin' and 'Password*' containing masked characters '.....'. A blue 'Submit' button is located at the bottom left of the form.

(fig 26: wrong user detection)

5.4 Test Results and Reports

I have updated my application with different data several time to see if it works properly or not. The test results therefore allowed me to understand the system's weaknesses and helped me to improve it. In order to make the system effective, I tried to test every function. And finally it worked every unit developed so far perfectly as I expected.

Chapter 6: Impact on Society, Environment and Sustainability

6.1 Impact on Society

Airbnb and many housing platforms have a hidden

unknown pricing algorithm, and they tend to maximize their profit at the expense of hosts. They take advantage of their oligopoly power, and give rise to a concern about LTR and STR platforms. In my project I would take care of this fact, according to me the platform as a whole will generate more revenue if prices are lower and bookings are more frequent. Since the accommodation options in cities around the developed world and even in Bangladesh is abundant I think it would encourage the society to have faith in renting system and affordability challenges will reduce.

6.2 Impact on Environment

The growth of shared economy based business may encourage property owners to take care of their underused spaces and keep them in good state. As a result it may have positive impact toward a cleaner environment and circumstance.

6.3 Ethical Aspects

All the principles of the system will be warned to the customers, there would be no hidden charges, only purpose is to make a fair business and all the efforts are dedicated to support customer as much as possible.

6.4 Sustainability Plan

- Taking care of energy consume
- Waste recycling
- Taking care of the environment by being concern about any sort of pollution (sound pollution, air pollution etc...)
- Organize events for socializing and social activities
- Taking care of non attracting spaces and get them rented
- Periodic surveillance of subscribed properties and guaranteeing the best to the customer.

Chapter 7: Conclusion and Future Scope

7.1 Discussion and Conclusion

After Months of hard work the project development is about to conclude. Documentation is fully completed. RentFolio is a huge plan which requires more times to get a complete aspect. I hope it will be a useful platform for hosts and renters, and make its space among the competitor systems.

7.2 Scope for Further Developments

- Complete the user module
- Update with much more enriched features (live chat, develop own

- payment system, smarter interface)
- Develop Mobile application

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