

**DESIGN AND DEVELOPMENT OF WEB BASED RENTAL SERVICE
MANAGEMENT SYSTEM**

BY

**MD.YEHSUN MEHEDEE
ID: 181-15-1962**

**RUMMAN AHMED
ID: 181-15-1800**

**RABEYA BASHRY RUBINA
ID: 181-15-2015**

This report is presented in partial compliance with the Qualifications
Requirements for Computer Science and Engineering.

Supervised By

Mushfiqur Rahman
Senior Lecturer
Department of CSE
Daffodil International University

Co-Supervised By

Shahana Shultana
Lecturer
Department of CSE
Daffodil International University



DAFFODIL INTERNATIONAL UNIVERSITY

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APPROVAL

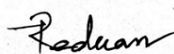
The project entitled “**Design And Development Of Web Based Rental Service Management System**”, submitted by **Md.Yehsun Mehedee, ID No: 181-15-1962, Rumman Ahmed, ID No: 181-15-1800 and Rabeya Bashry Rubina, ID No: 181-15-2015** at the Department of Computer Science and Engineering, Daffodil International University, has been well received. To meet part of the requirements for the B.Sc degree. in Computer Science and Engineering and approved its style and content. Presentation made on 13th January 2022.

BOARD OF EXAMINERS



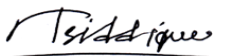
Professor Dr. Touhid Bhuiyan
Professor & Head
Department of CSE
Faculty of Science & Information Technology
Daffodil International University

Chairman



Md. Reduanul Haque
Assistant Professor
Department of CSE
Faculty of Science & Information Technology
Daffodil International University

Internal Examiner



Shah Md. Tanvir Siddiquee
Assistant Professor
Department of CSE
Faculty of Science & Information Technology
Daffodil International University

Internal Examiner

Farid

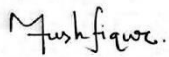
Dr. Dewan Md. Farid
Professor
Department of CSE
United International University

External Examiner

DECLARATION

We therefore make declaration that this work has been done by us under the watchful eye of **Mushfiqur Rahman**, Senior Lecturer in the Department of CSE Daffodil International University. We also announce that neither this project nor any part of this project has been relocated to be awarded any degree or diploma.

Supervised by:



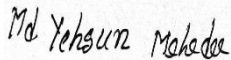
Mushfiqur Rahman
Senior Lecturer
Department of CSE
Daffodil International University

Co-Supervised by:



Shahana Shultana
Lecturer
Department of CSE
Daffodil International University

Submitted by:



Md. Yehsun Mehedee
ID: 181-15-1962
Department of CSE
Daffodil International University



Rumman Ahmed
ID: 181-15-1800
Department of CSE
Daffodil International University



Rabeya Bashry Rubina

ID: 181-15-2015

Department of CSE

Daffodil International University

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ABSTRACT

The primary impetus for our project is to provide users and owners of rental products a platform for effective and friendly communication. Growing popularity and use of the online system has a direction in the need to investigate the service of hiring those who enter the cloud and improve their services to customers. [2] Nowadays, the online rental system has selected a variety of items such as houses, cars, books, buses, trucks, cycles, bicycles etc. which are beneficial to the users. Rental services management system is a service system in which customers apply for the rental of a rental unit. [3] This system is much easier to use than holding ownership and keeping the unit maintained. In our paper we introduced a program that provides various services such as renting for the daily needs of products such as house, cars, buses, books, trucks, clothing, bicycles, bicycles etc. The target audience of our program is basically whoever you choose. [4] renting any products rather than buying those products. It can be local or non-local as well as those who are new users in the system. The purposes of this system allow for long-term rental of any products to prepare the user or customers to choose 1 hour to 1 month or more. This program is an extended way to offer a variety of items or items that are often organized by multiple local blocks and integrated into a system that accepts online bookings. [5]

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CHAPTER 1

Introduction

1.1 Introduction

The modern century is the age of internet. At present almost no people can walk without internet. Currently 47% of the world's people use the internet, which is 355 crores. [2] Many people are now moving to a variety of jobs or education, weather from one part of the country to another or from one country to another. [2] This has resulted in a versatile and complex management system that include some important things for livelihood which includes foods, cars, houses, furniture and other necessities.

Now a days when shifting from one place to another, the first thing that comes to people's mind that they will buy or rent the things they need in that case they will have to calculate the price that is the most urgent, difficult and important task for every people. [4] And for its widespread expansion, the internet offers a wide range of online platforms, including e-commerce technology provides a lot of services and a variety of facilities, especially business and variety of online shopping portals.

In the current situation of the Covid-19 situation, it has become more widespread and turning to online shopping tends to save their life from risk. [2] Online shopping is now thriving in the business and will continue to do so in the future as a result of online services interacting with customers and other online business organizations. [6] Our basic project is to find out what people are looking for online according to their needs and try to keep all the information as expected for current and new users. [9] Our project paper is basically a four-dimensional model designed to measure customer satisfaction and secure online employment information security platform. Our paper is basically a feature and regression analysis to confirm the parameter model with repeated operation. [7] There has been a long-running debate about buying or renting a product than there are many competing applications in today's digital environment.

There are currently various online rental service forums that help the public by renting a variety of essentials, especially among them MagicBricks, Cardekho.com, RentMojo,Olx,

Furlenco etc. [2] This list is even bigger. The background of those apps is related to the rental of only car rental items such as MagicBricks, which is owned outside the building, asset or Zoomcar related to car rental, Olx is related to the purchase or sale of products or equipment used on a daily basis. [2]

Therefore, please come up with a new website called "Design And Development Of Web Based Rental Service Management System" which will have all the personal details of the products and people can rent their necessities according to their need and the products are categories of this user can easily search their products without any hassle and time costs. [3]

1.2 Motivation

We have created this project so that people can rent their daily necessities like car, house, wedding dress etc. This will save them time and we will benefit from using it as a business purpose.

1.3 Objective

With the help of our project, the users will be able to rent various things they need (like-cars, houses, dresses etc.).

1.4 Expected Outcome

- Saving time
- Online service
- Smart searching tools
- Facility

1.5 Overview

Our project has a manager and users,

- The users can log in and view all the products they can rent as long as they need them.

- The users will be able to delete the rented products. Also he will be able to send messages.
- Also the administrator can control the whole system, the administrator can agree to rent, remove rent, add categories, add products or items, add users, remove users, edit category, delete category, see order details. When a user sends a message, you will be able to see it and reply to it.

Major opportunities available for this project –

- Users can be able to save their time by using our project.
- The user can rent everything that has been added to our category.
- And the Users can keep the thing until he mentions it.
- If the user wants to cancel his order, he can cancel it.

In this project user-generated data will be stored on the website. After submitting an order the administrator will review it and the administrator can confirm or cancel the order.

CHAPTER 2

History

2.1 Introduction

With the help of this hiring management system, users can easily find what they need. And it can be accessed from anywhere with the help of internet technology. People will benefit greatly from this project.

2.2 Relevant Activities

We recognize a system which is just one of many relevant activities concerned to hiring services. We are known the basic needs are often needed by people. Some things are need permanently and sometimes some things are need for some hours or some days. [7] And it occurs every time of the life. [1] It is also the part of the life. [1] There are many projects like ours projects. But those projects are mostly one necessary thing rents related projects like car rent, bus rent, house rent, book rent etc. Some projects are MagicBricks, Cardekho.com, RentMojo, Olx, Furlenco etc. MagicBricks is concerned with the exception of property, inheritance or Zoomcar related to car rental, Olx is concerned about the purchase or sale of products or equipment used on a daily basis. [2] Those websites design are really fantastic with their design. Their User Interfaces (UI) design is also good. But our projects are slightly difference from others cause in our project the people can be rent their all necessary things from one place. [8] In our projects we are trying to make a wonderful User Interface (UI) design which will so much user friendly and we think anyone can understood anything very easily and quickly. [8]

2.3 Scope Problem

We encountered some problems while working on this project.

- Choose our category.
- Design for the proper way.

2.4 Provocations

- To provide services properly.
- It will be user friendly.

- High traffic can slow down the server.
- Totally dependent on the internet.

CHAPTER 3

Requirement Specification

3.1 Introduction

At this stage we gathered information about what users need and explained the problems the system is expected to solve. We've collected requirements like software like the programming language to use, Hardware and the required database model.

3.2 Overall Description

The description given below:

3.2.1 Product perspective

The hiring management system opens up an easy way for users to easily find the items or products they need. There will be a reliable website that will contain all the product details, where users can easily view products and rent.

3.2.2 System Interfaces

This system is to be attached to a MySQL-founded website server. On the other hand all users will be connected to the internet.

3.2.3 User Interfaces

This system is a one kind of desktop application. The system form is designed to be easy to use. The login form is the same for all users. The login process is the same for each. So, user, after logging in they will get the same window.

3.2.4 Communication Interface

The data transfer between the client and the server will be the Transmission Control Protocol (TCP) and the Internet Protocol (IP).

3.2.5 Storage Limitation

There is no limitation of storage space for our system. At the stage of the planning, system compilation, quality planning, testing and the writing process are done.

3.2.6 Operations

The principle activity are the data passage on the structure, which are:

- Database.
- Searching.
- Updating.
- Editing
- Deleting

3.3 Business Process Modeling

Our goal is to run our business that you try later. A well-planned plan is like the role of delivering good plans using a particular asset, duration and right in an accessible financial plan. The well-planned program needs to be done to upgrade the software.

3.4 Requirement Analysis and Specification

Finding the requirements, price and specificity of the software product you want is the first and most important task in doing this. To welcome customers think about what software is and how it is capable and then we can see any problem with software engineering.

We spoke to specific people to get this idea and visited the program-related website and collected the necessary information.

We have discussed the matter with our supervisor.

3.4.1 Requirement of Hardware

Table: 3.4.1.1 Requirement of Hardware

Processor	No limitation of the processor.
Motherboard	No type of limitation of motherboard.
Ram	Minimum storage of RAM is 256 MB.
Internet Card	Any type of internet card.
Graphics Card	Any type of graphics card.
Hard Disk	50 GB
Casing	ATX
Monitor	Any type of monitor
Keyboard	Any
Mouse	Any

3.4.2 Requirement of Software

Table:3.4.2.1 Requirement of Software

Software	Usage
No limitation of windows operating system	To fire up PC and arrange all equipment parts, software and tweaked programming.
Wamp or Xampp	To make a local server in our computer.
Phpstroom	This is the most incredible proof reader to compose code.
Phpmyadmin	To make a database.
Laravel Composer	To run the project with the PHP Laravel.

3.5 Design

In this section we have discussed the software development process, the architecture of the database which is the design of the data, the structure and other documents as a whole. Here are some other projects to improve this app which are Use Case Diagram, Sequence Diagram, DFD (Data Follow Diagram), Flow Chart Drawing and more.

These are the languages that have been used to design this software:

- Hypertext Markup Language (HTML)
- Cascading Style Sheet (CSS)
- JavaScript
- Bootstrap

3.5.1 Hypertext Markup Language (HTML)

HTML is a language which known as coding language that creates the design of all websites. Whenever we visit any site, we see HTML there. [9] The first HTML details were submitted by Tim Berners-Lee in 1991 and the CERN team in 1992 and the wad finished in 1993. It was a basic language. [9]

3.5.2 Cascading Style Sheet (CSS)

CSS means Cascading Style Sheet which is a style sheet language used to display the look and feel of a record in markup language. Cascading style sheet is therefore widely used with html to change page style with User Interfaces. [11] We can add a new look to our old HTML frame and we can change the look of our site for this space using CSS. This language was proposed as a web style language in 1994. [11]

3.5.3 JavaScript

JavaScript is a programming language known as customer pre-programming language and is not expected from Java. This language is only used for web pages. It was compiled by Brendan Eich and referred to as the ECHA Script.

3.5.4 Bootstrap

Bootstrap is a framework for CSS that we can be used to make any type of web page much easier. Bootstrap was created on Twitter in August 2011 on GitHub. [11]

3.6 Requirement Prosperity

- PHP (Laravel)
- MySQL

3.6.1 PHP Laravel

The Laravel framework is a free open source PHP framework developed by Taylor Otwell. Submitted in June 2011. It is intended for a designer who needs a basic and effective tool to create a full-featured web application. [10] It follows MVC representing Model View Controller.

We agree that development should be fun and new art to be truly satisfying. Laravel seeks to remove promotions from development by simplifying the common functions used in many web projects. [10]

3.6.2 MySQL

MySQL is powered by ORACLE Corporation and is an open source data management database that works on multiple platforms. [12] So, it basically provides access to multiple uses to support multiple storage. It also offers a variety of features such as good, flexible and durable, durable and extremely secure. [12]

MySQL was named after Monty Wideniu's daughter's main supporter 'My' and 'SQL' which is a reduction in the language of Organized Question. [12]

So here comes the My + SQL = 'MySQL' structure created by the Swedish organization. [12]

3.7 Diagram of Use Case and Modeling

Case Application Drawing is a graphical description of a system with possible user interactions. In this project the Application Case diagram is a very useful way to identify, clarify and organize system requirements. This diagram describes how the user uses the program to achieve an individual goal.

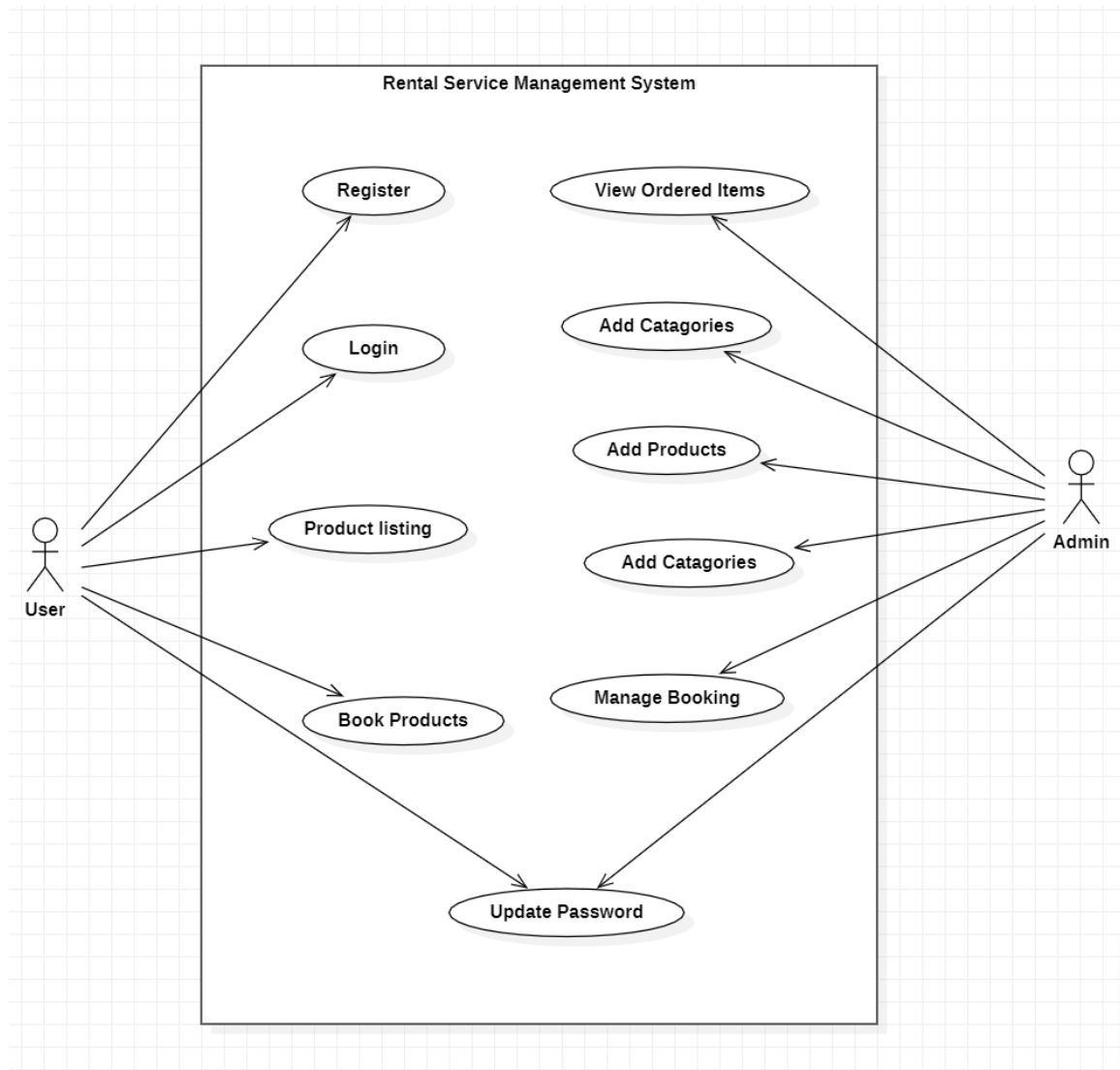


Figure 3.7: Use Case Diagram

3.8 Diagram of Sequence and Modeling

A sequence diagram is a communication diagram that provides details to explain how tasks complete and what message is sent and when. In this work a sequence diagram is a diagram that is a dialogue diagram as it describes how the order of a set of objects works and how they work together. The Sequence Diagram mainly concentration primarily on lifeline, or the processes and the objects living together, the message being exchanged between them to do the work until the end of the life line.

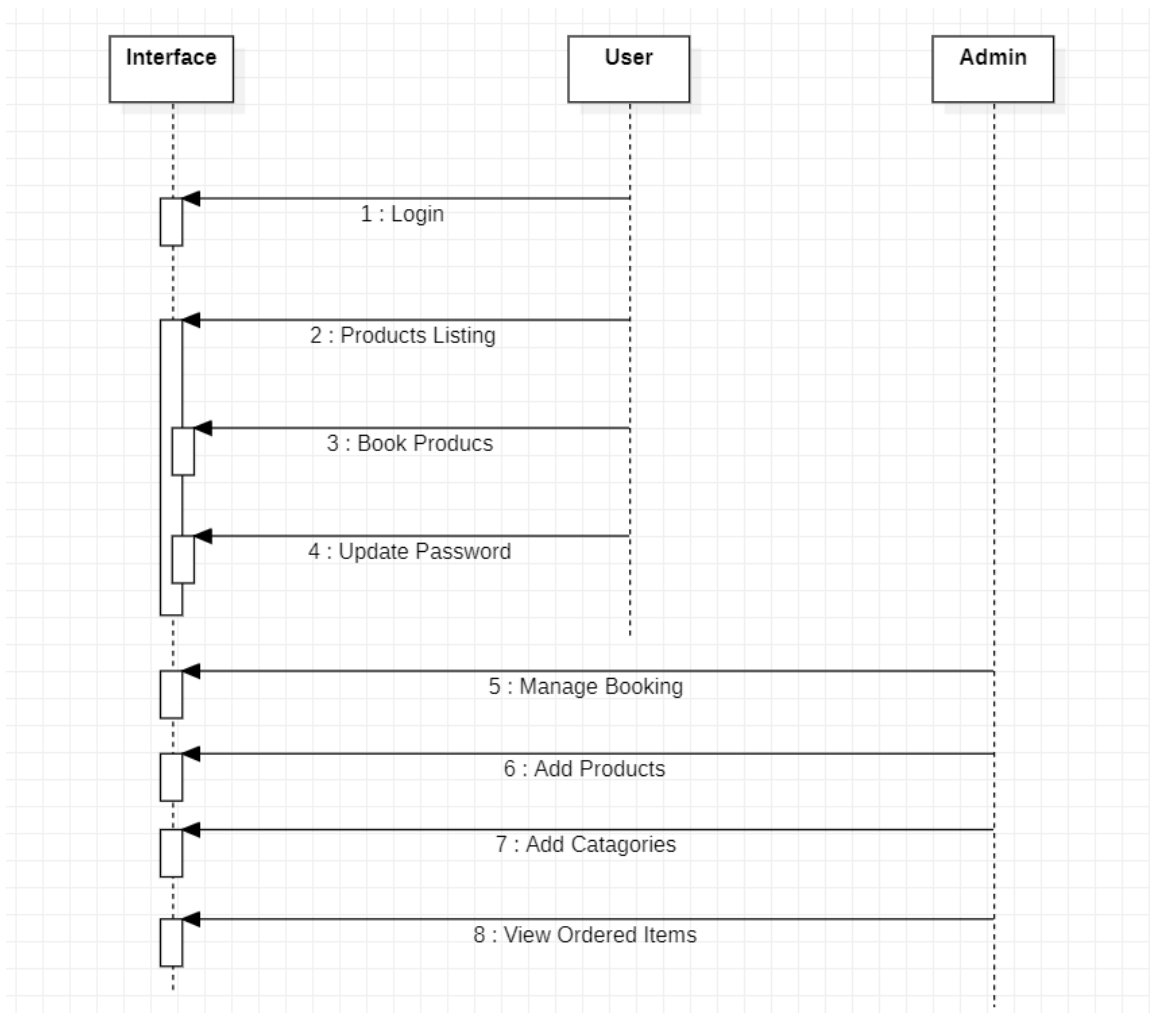


Figure 3.8: Sequence Diagram

3.9 Diagram of Data Flow (DFD)

Data Flow Diagram also known as DFD. Data Flow Diagram basically used to move data diagrams to the business information system. In this project the (DFD) shows a complete formation of any system. This also shows how and what types of supplies are being chosen by the client and the number of administrator interaction in it.

3.9.1 Zero (0) Level DFD

In Zero (0) Level Data Flow Diagram (DFD) a standard process monitoring system is provided. The zero-level (0) DFD will also provide a gradually conductor to the in-depth data flow process consider the Design and Development of Rental Service Management System. With the advent of DFD, data transactions and data flow also grow and acquire more information.

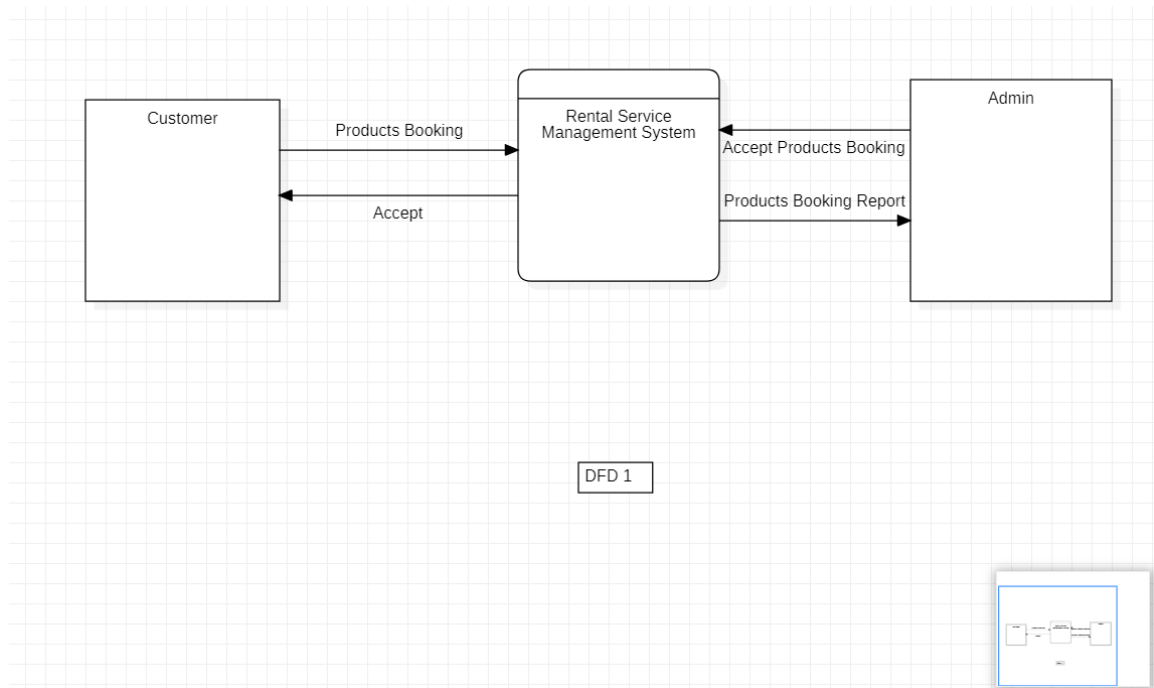


Figure 3.9.1: Zero (0) level DFD

3.9.2 First (1) Level DFD

In the First Process (1) Level Data Flow Diagram (DFD) the process requires information such as customer records, transactions, payments and income that you have worked on as the basis of a company manager to manage the Rental Service Management System. This type of data is defined by the data store. This diagram also provides indications of how inputs or data are fed into the system. It will also let you know about the results the system provides.

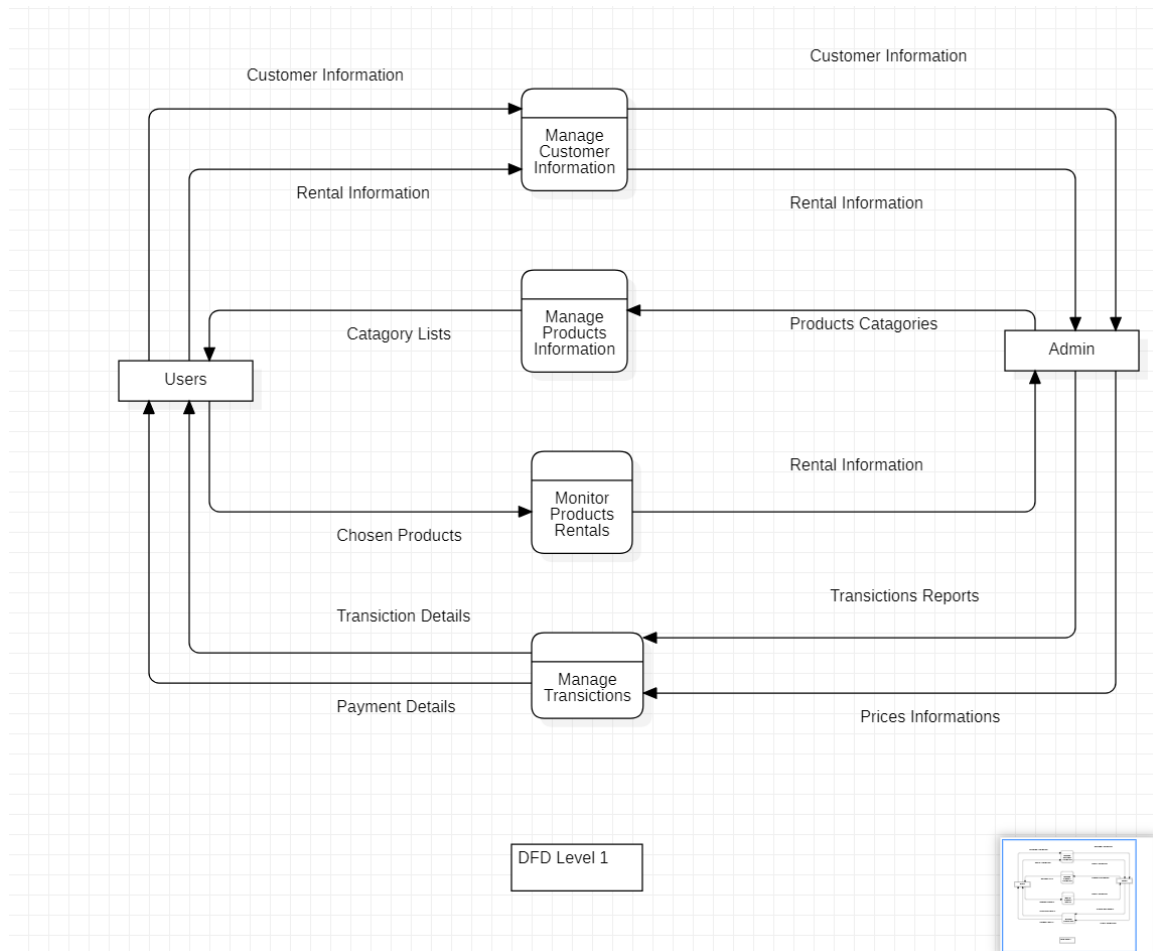


Figure 3.9.1: First (1) level DFD

3.9.3 Second (2) Level DFD

In Figure Two (2) Data Flow Data (DFD) we can identify ideas where data enters and inputs into the Rental Service Management System. We can also better determine the importance of breaking procedures in a more specific way. This level not only reflects the detailed process of the system but also provides a precise flow area in the system.

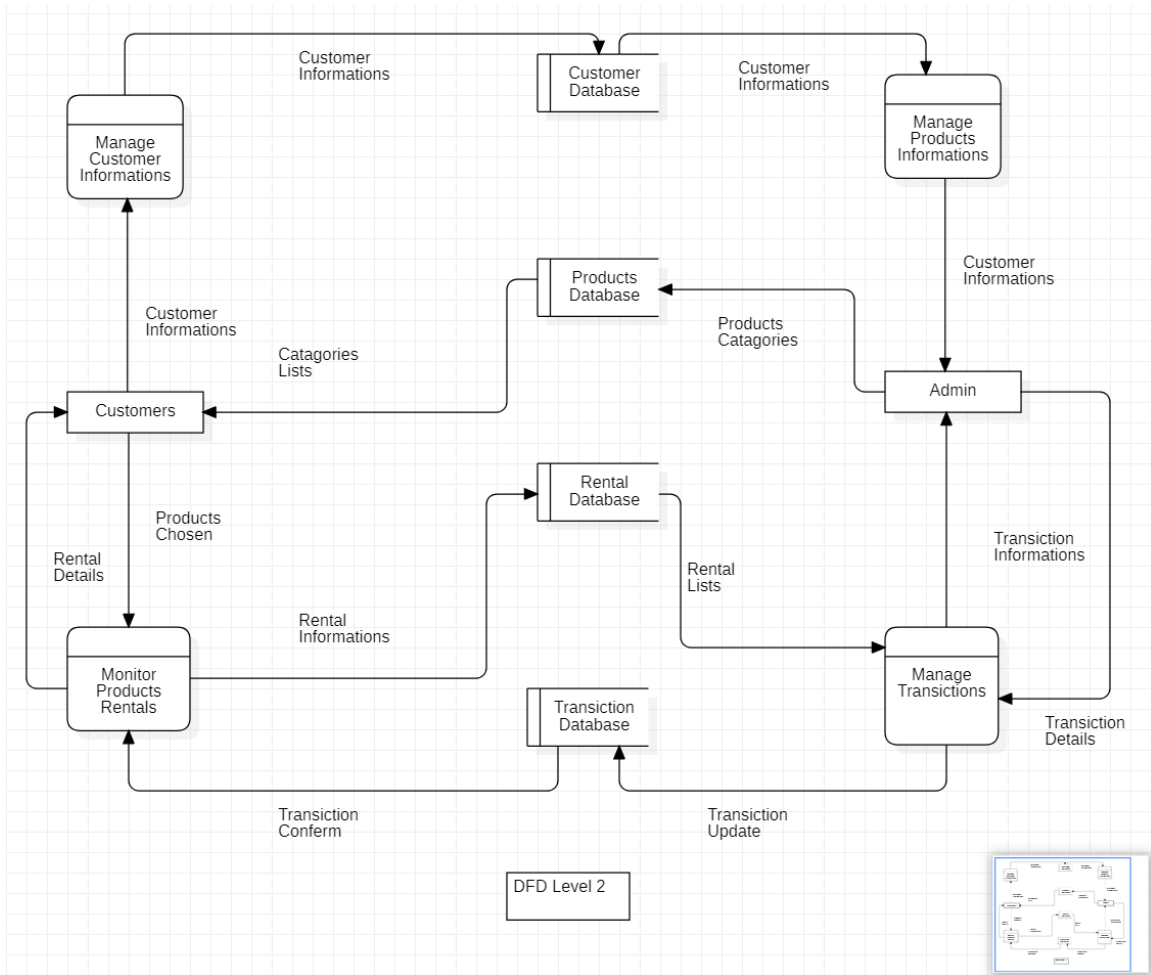


Figure 3.9.1: Second (2) level DFD

3.10 Flow Chart Diagram

Flow Chart Diagram is a type of diagram which describes the process or flow the task. This drawing also calls for an algorithm drawing process. This process can create a step-by-step approach to solving any problem or task. The diagram of the flow chart represents the different steps of the boxes and their orders by connecting with their arrows.

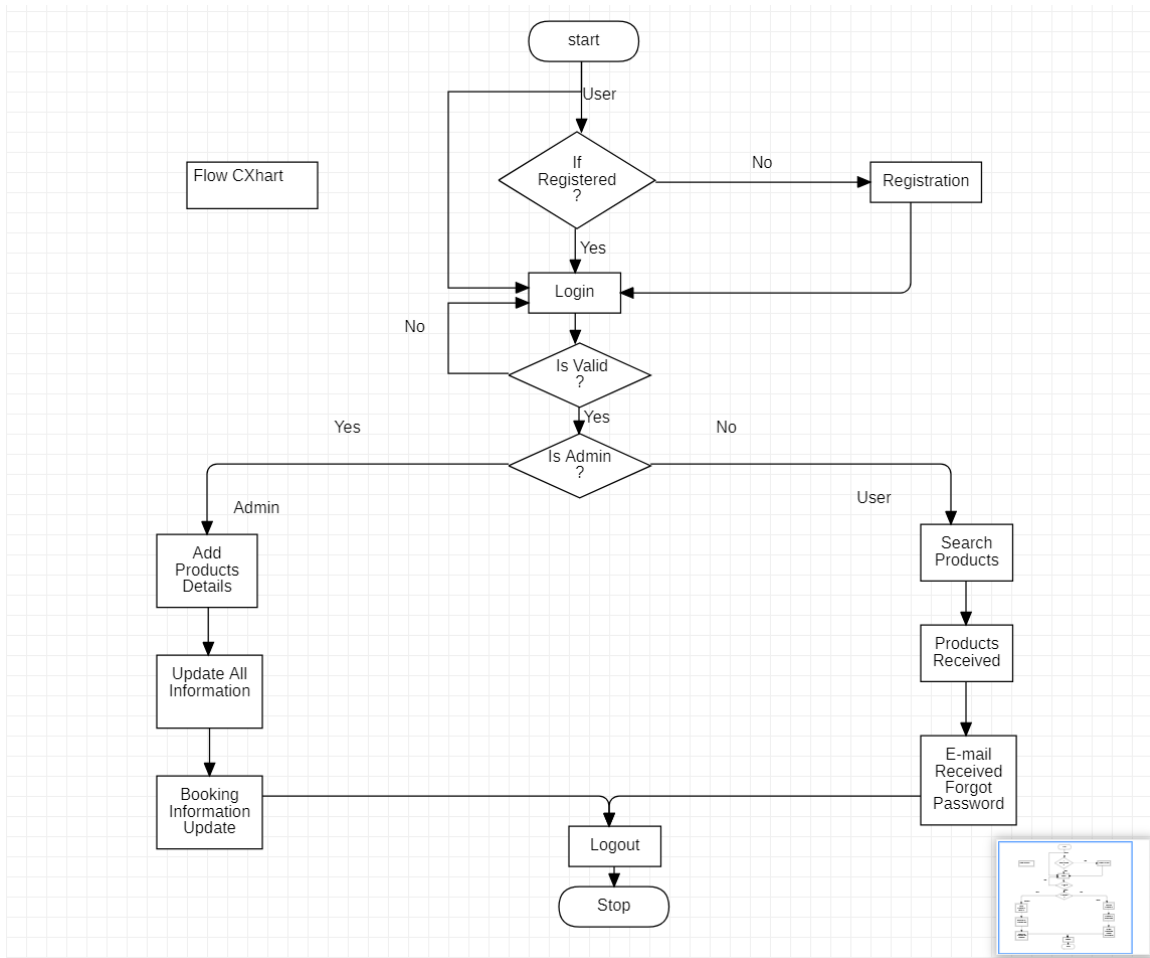


Figure 3.10: Flow Chart Diagram

CHAPTER 4

Design and Specification

4.1 Design of Front-End

This is the landing page of our system. As the time when the users can be wanted to access our website, they first see the posts of the product on the landing page. On the landing page the users cannot rent anything without login or registration. But on the landing page the users can be able to see the ad listings with the information in the other pages. At the time when the users sign up or log in where users can access posts and pages. Alternatively, show the registration form to register. Users can search their items by categories.

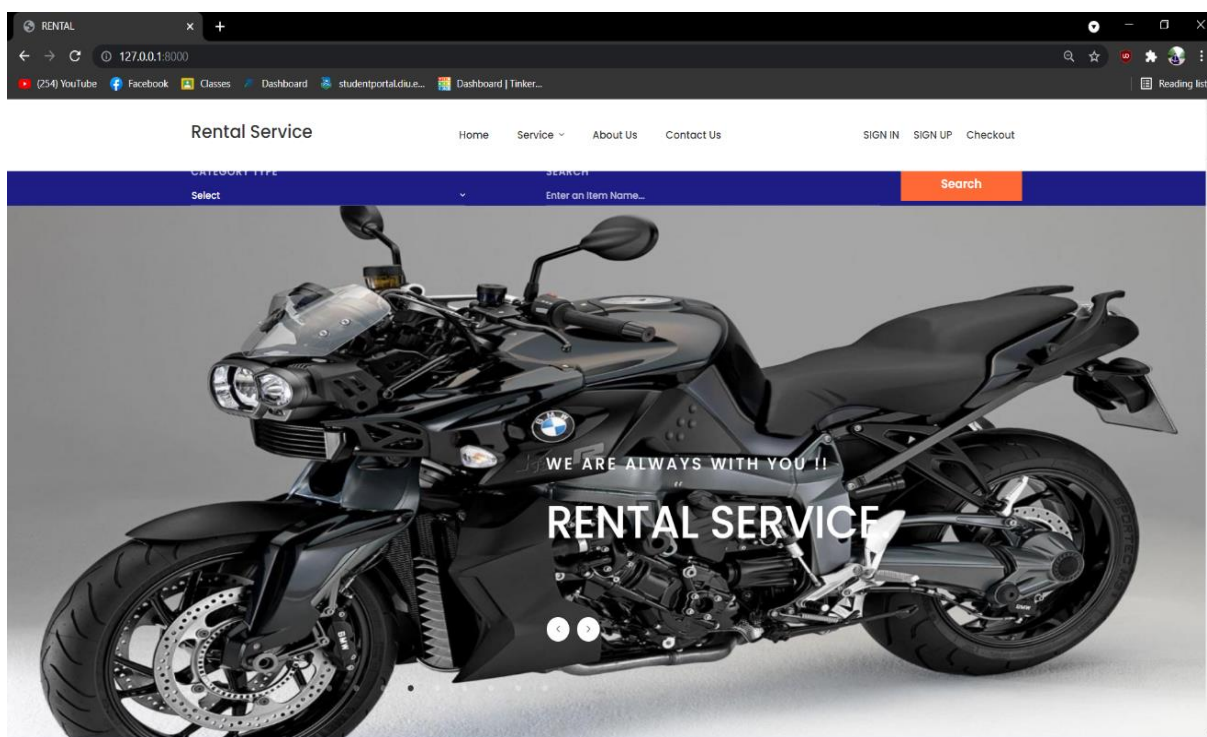


Figure 4.1.1: Design of Front-End

This is also the landing pages photo where the available products are shown in the landing pages and the users can see the products easily. In this landing page the user also can see

some quick access of this system and use those quick access the user can find anything very easily and within a short time.

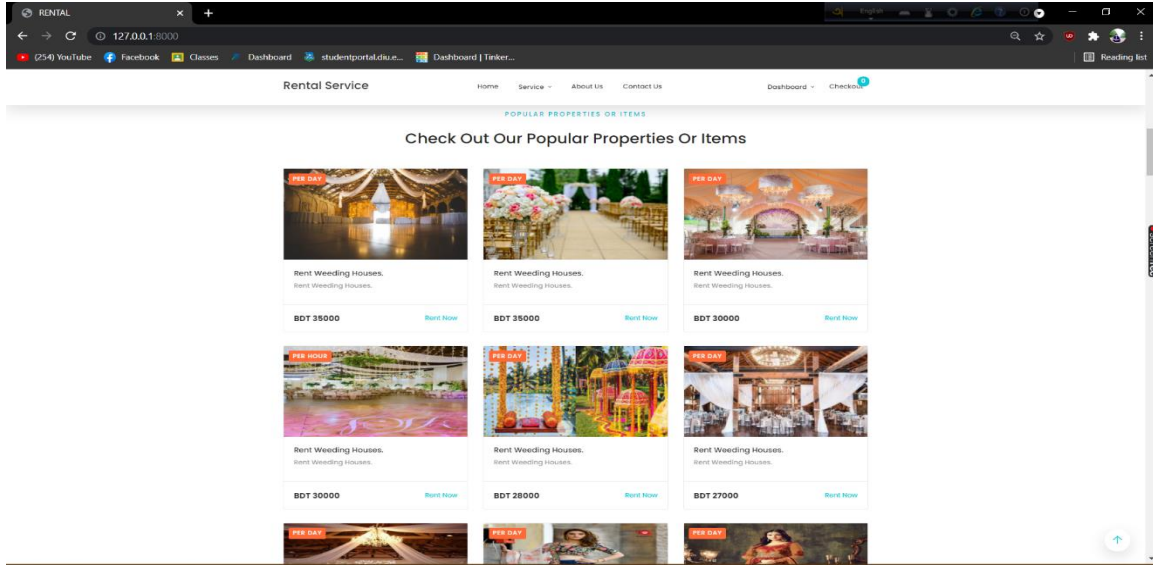


Figure 4.1.1: Front-end Design

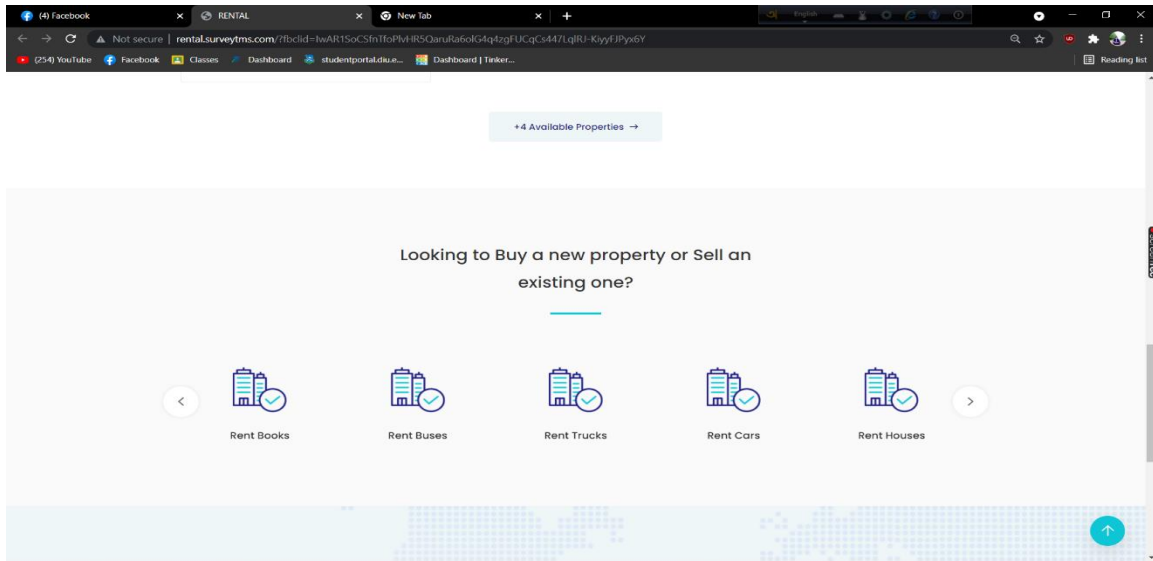


Figure 4.1.2: Front-end Design

This is the footer of our system landing page in this footer section the user can see a few details of the system like e-mail, system name, phone no, privacy policy and some social media platform.

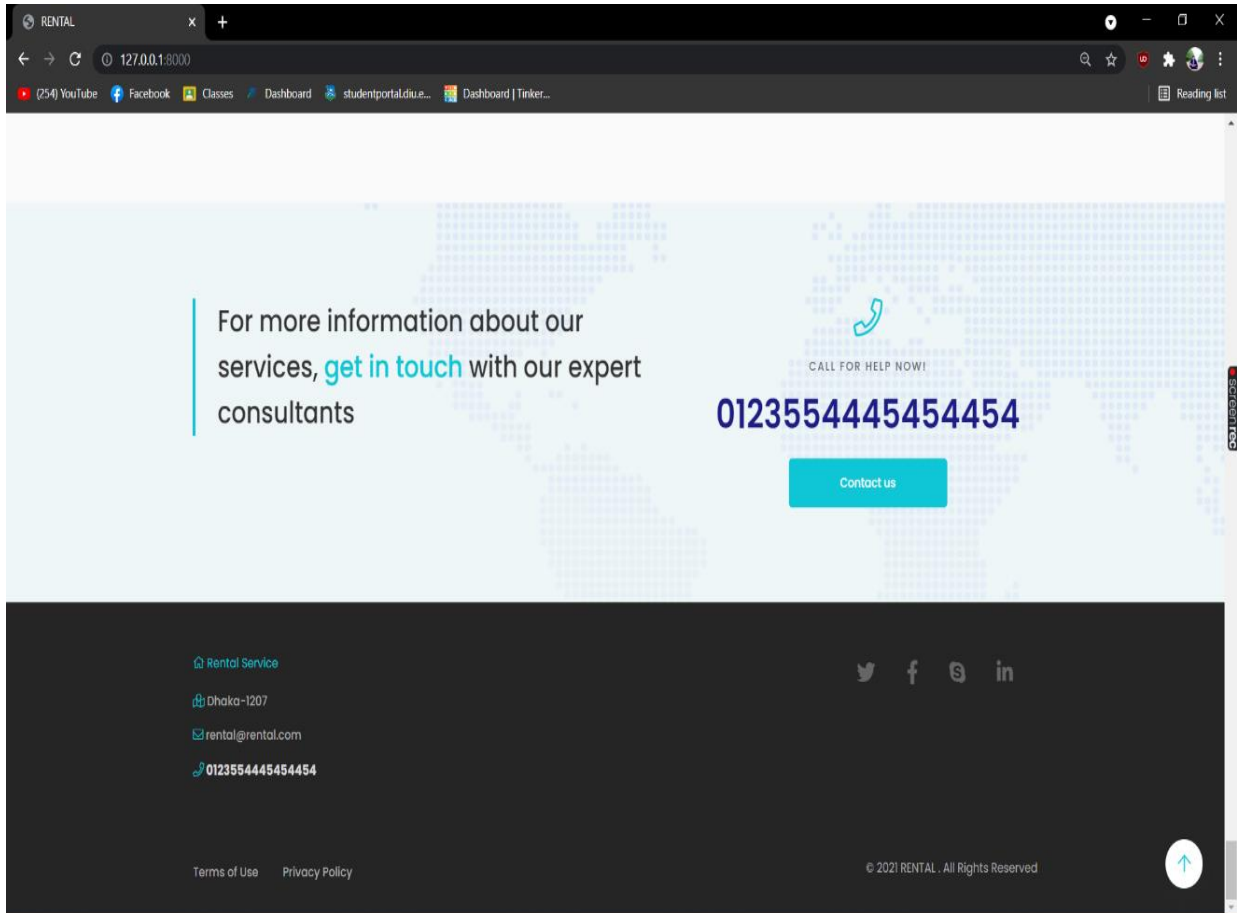
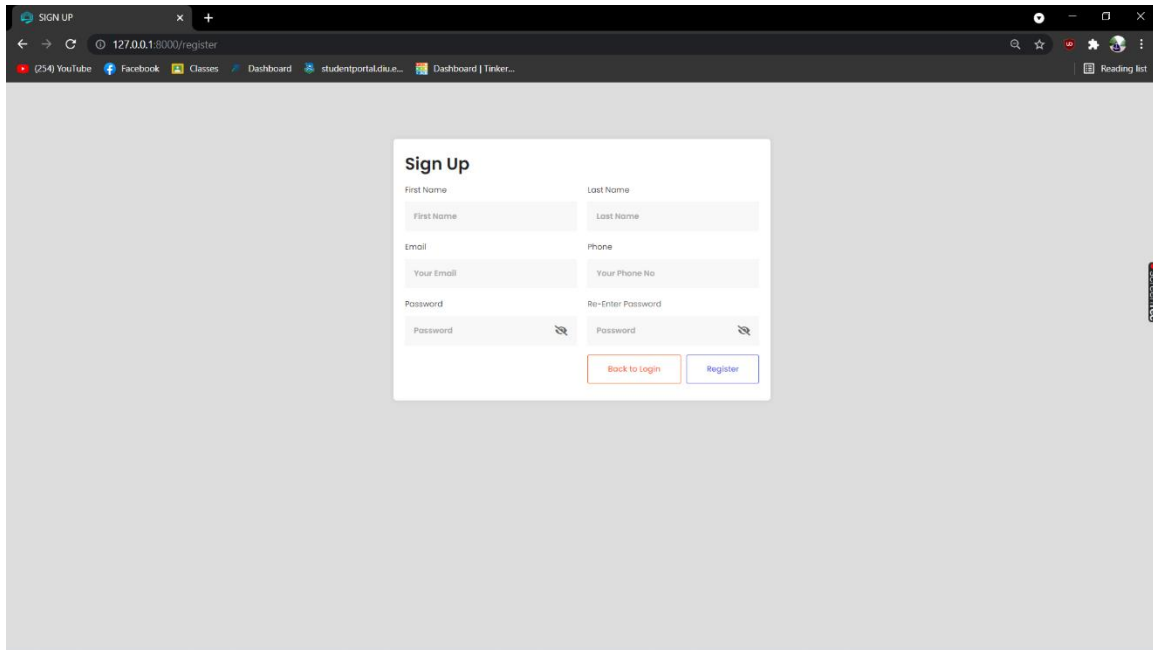


Figure 4.1.2: Front-end Design

4.2 User Sign Up

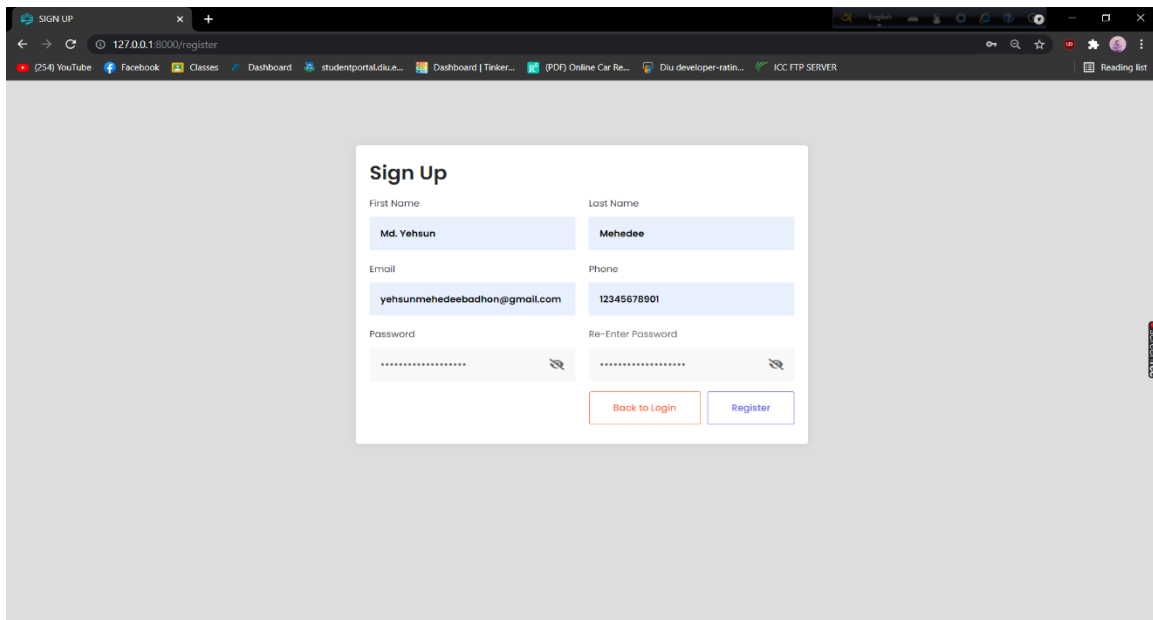
From here the user can registration them with their mail, phone number, first name and last name for login to the system and see the important posts and select products and rent products from the system.



The screenshot shows a web browser window with the URL `127.0.0.1:8000/register`. The page displays a 'Sign Up' form with the following fields:

- First Name (empty)
- Last Name (empty)
- Email (empty)
- Phone (empty)
- Password (empty)
- Re-Enter Password (empty)

At the bottom of the form, there are two buttons: 'Back to Login' (orange) and 'Register' (blue).



The screenshot shows the same 'Sign Up' form, but now filled with sample data:

- First Name: Md. Yehsun
- Last Name: Mehedee
- Email: yehsunmehedeebadhon@gmail.com
- Phone: 12345678901
- Password:
- Re-Enter Password:

The 'Back to Login' and 'Register' buttons remain at the bottom.

Figure 4.2: User Sign UP

4.3 User Sign In

From here the user log in the system with their mail and password and can select products and rent the products.

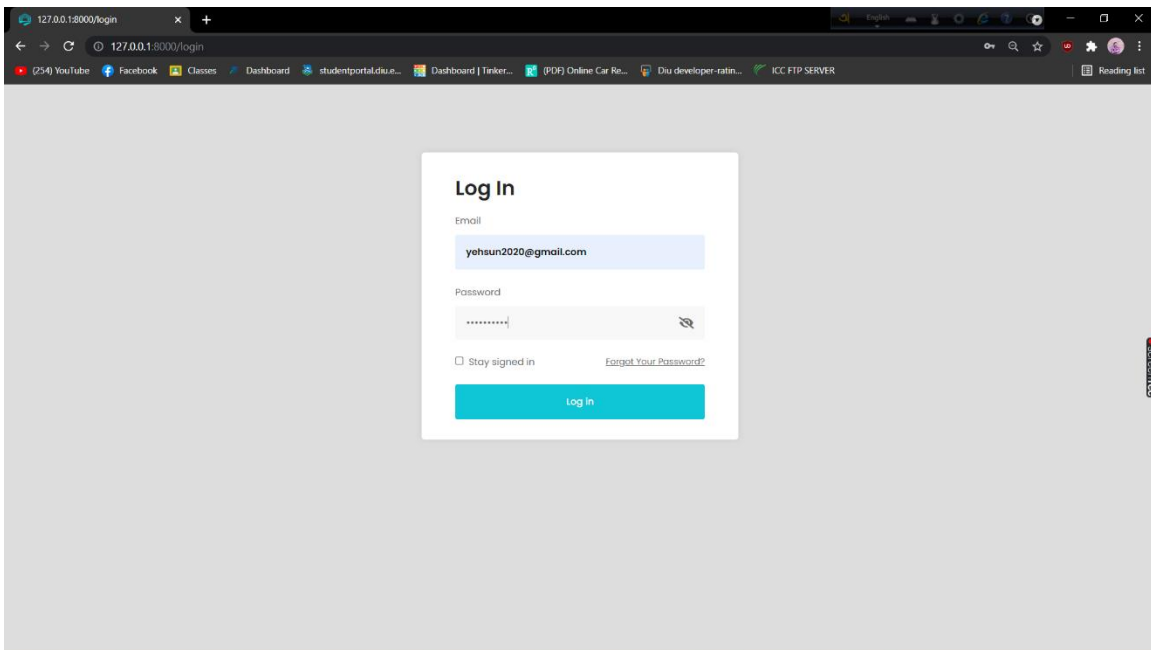
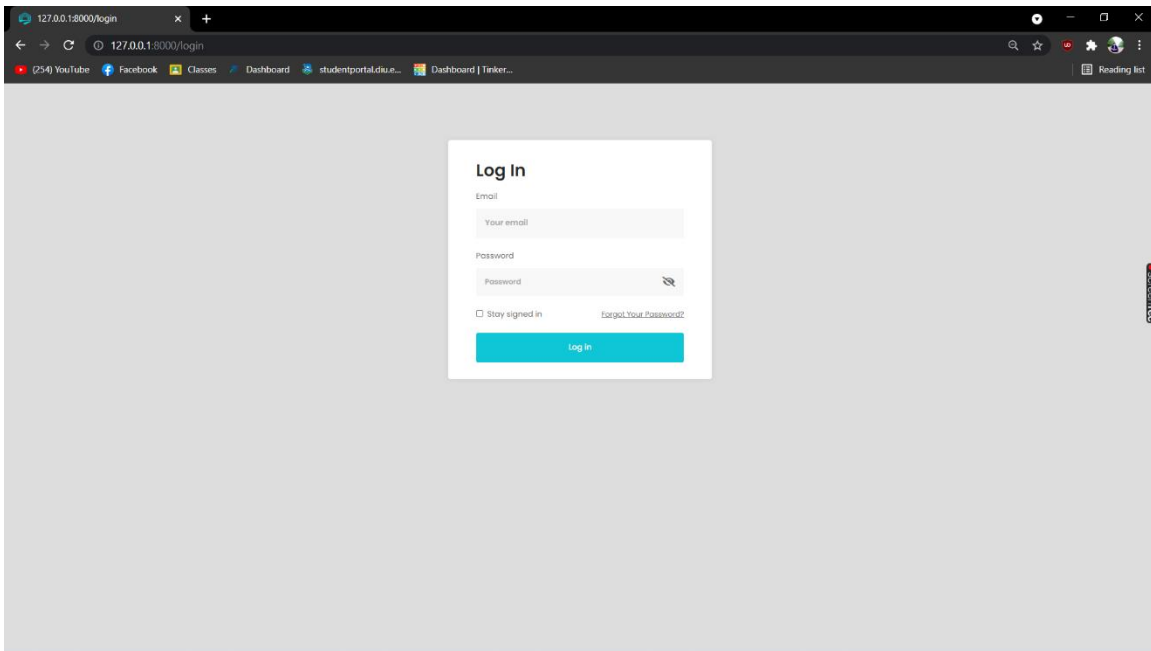


Figure 4.3: User Sign In

4.4 Houses for Rent

From this section the user can see the lists of Houses for rent with their details.

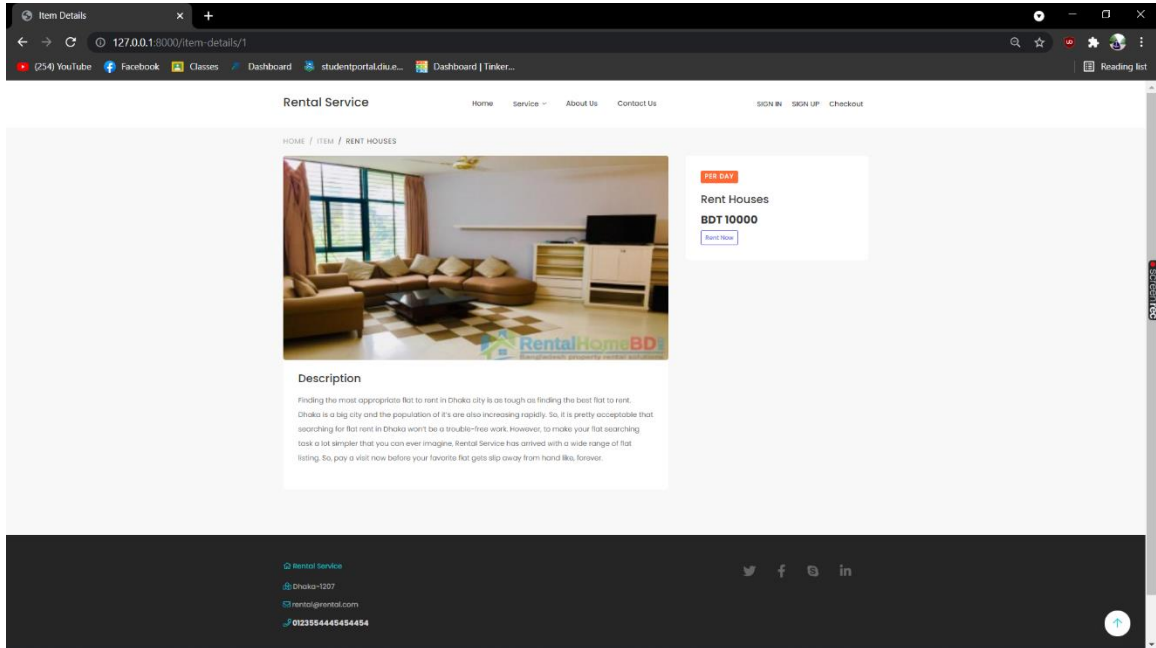
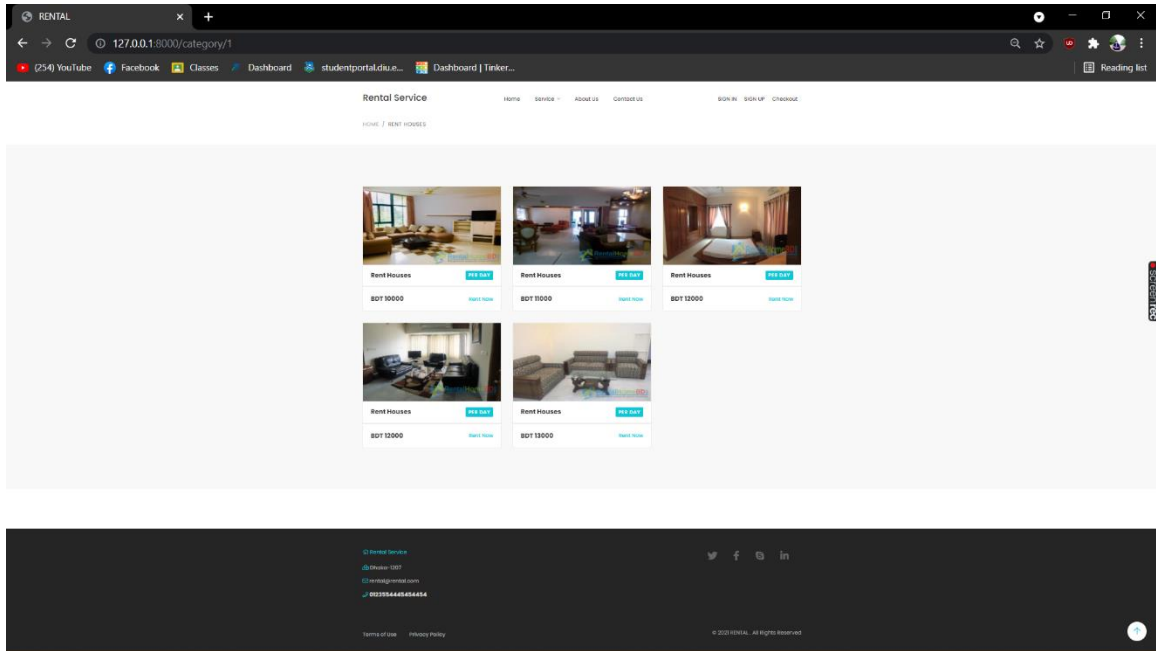


Figure 4.4: House for Rent

4.4.1 Cars for Rent

From this section the user can see the lists of Cars and their details to see that the if the user choose any items they can select items for rent.

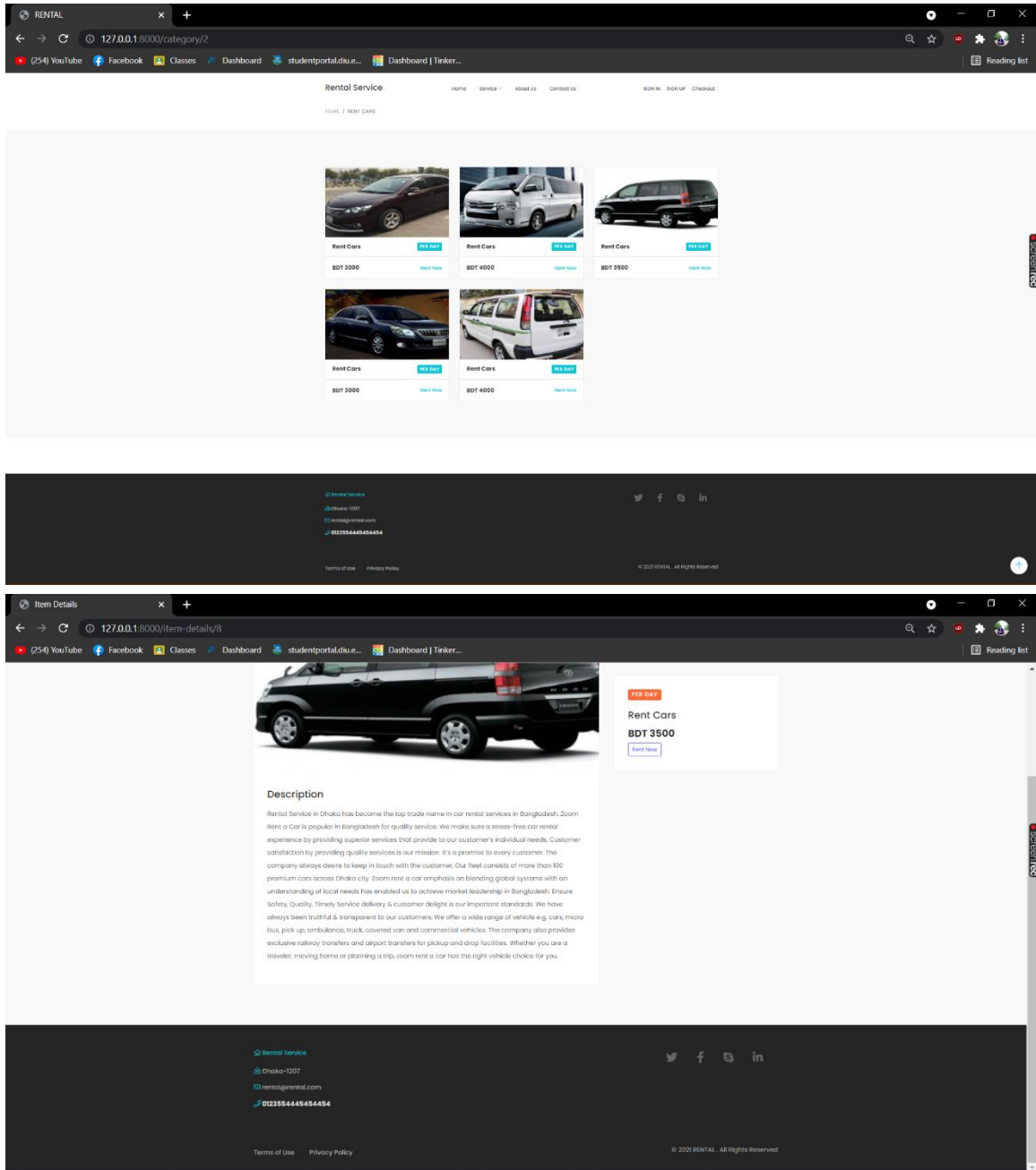


Figure 4.4.1: Cars for Rent

4.4.2 Buses for Rent

From this section the user can see the lists of Buses and their details to see that if the user chooses any items they can select items for rent.

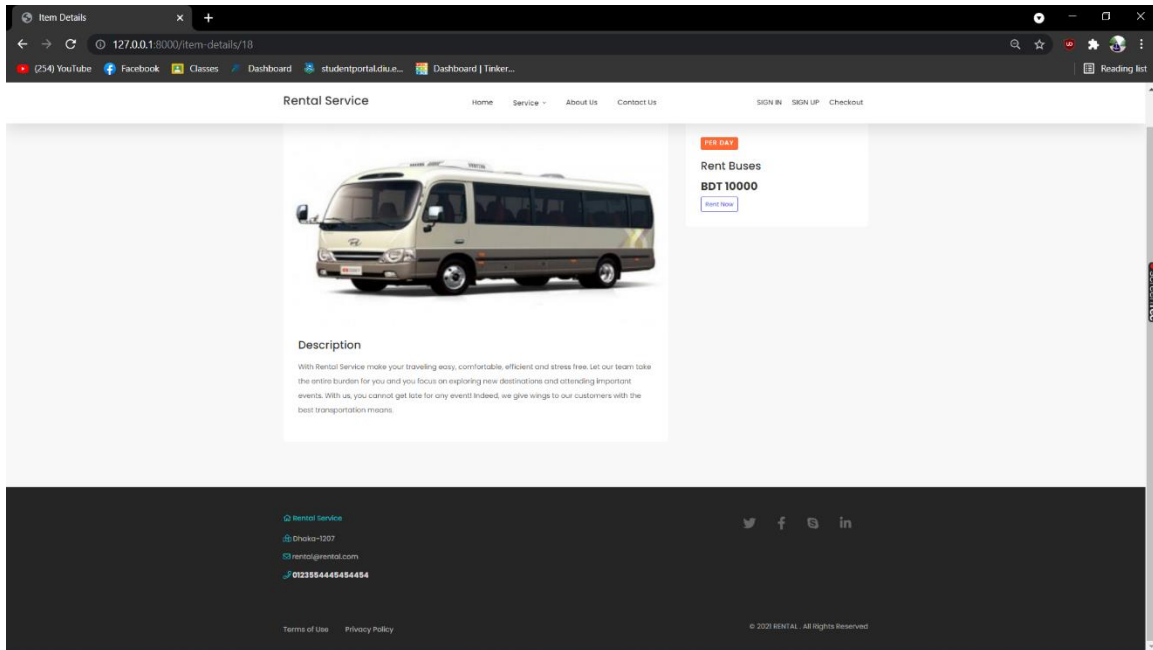
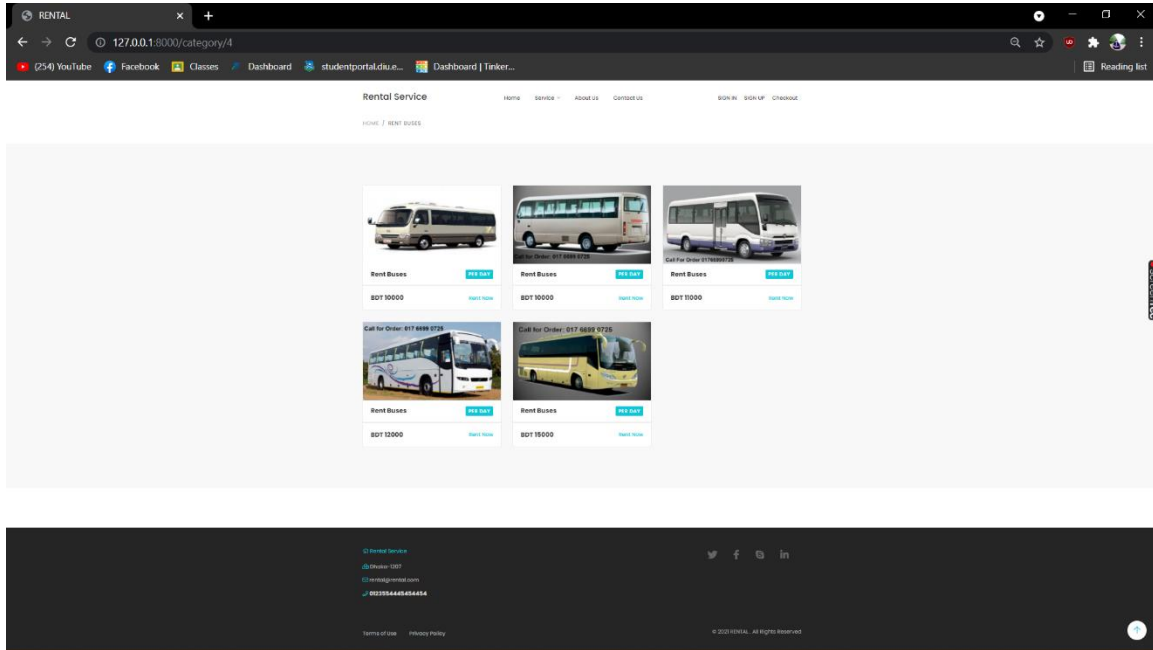


Figure 4.4.2: Buses for Rent

4.4.3 Books for Rent

From this section the user can see the lists of Books and their details to see that if the user chooses any items they can select items for rent.

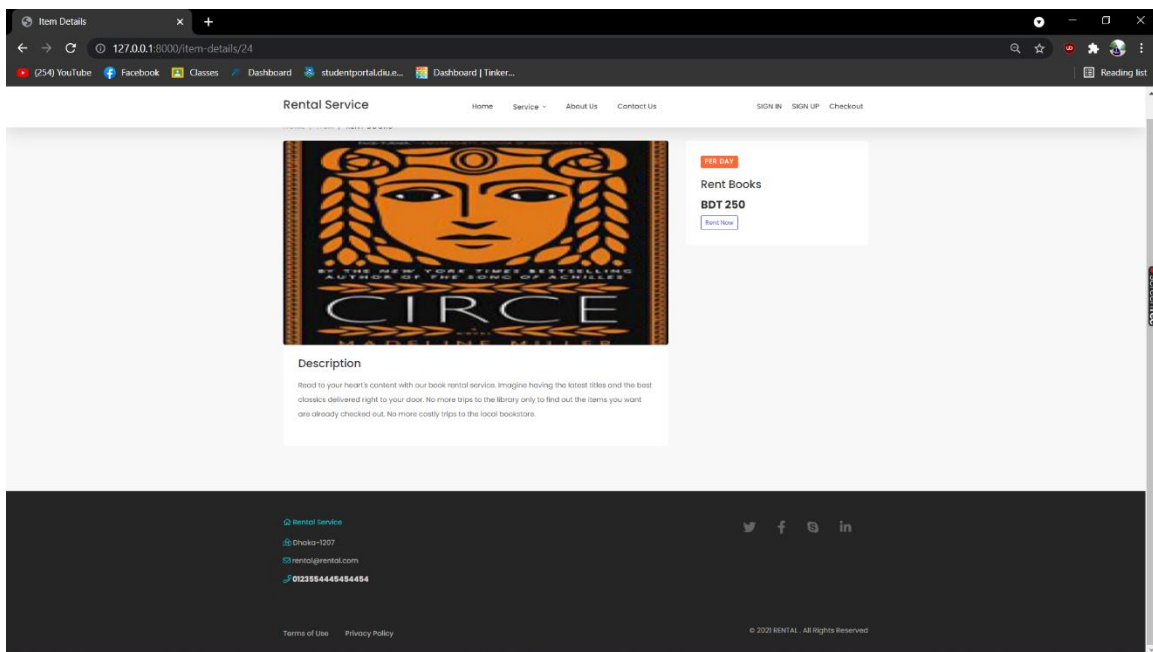
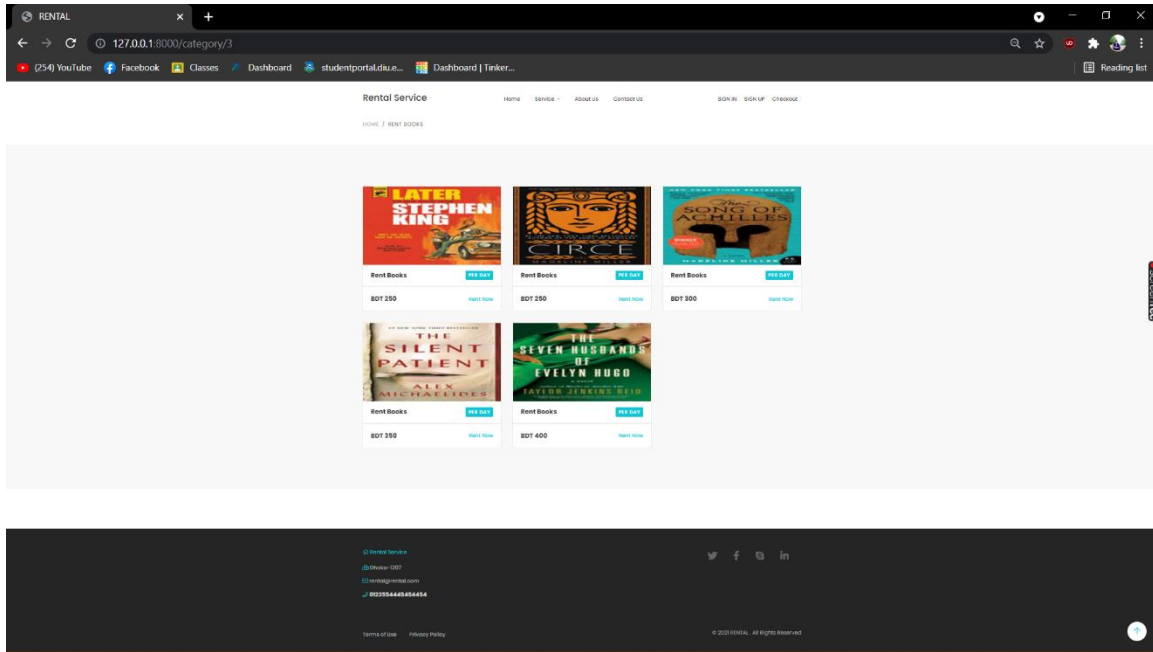


Figure 4.4.3: Books for Rent

4.4.4 Trucks for Rent

From this section the user can see the lists of Trucks and their details to see that if the user chooses any items they can select items for the rent.

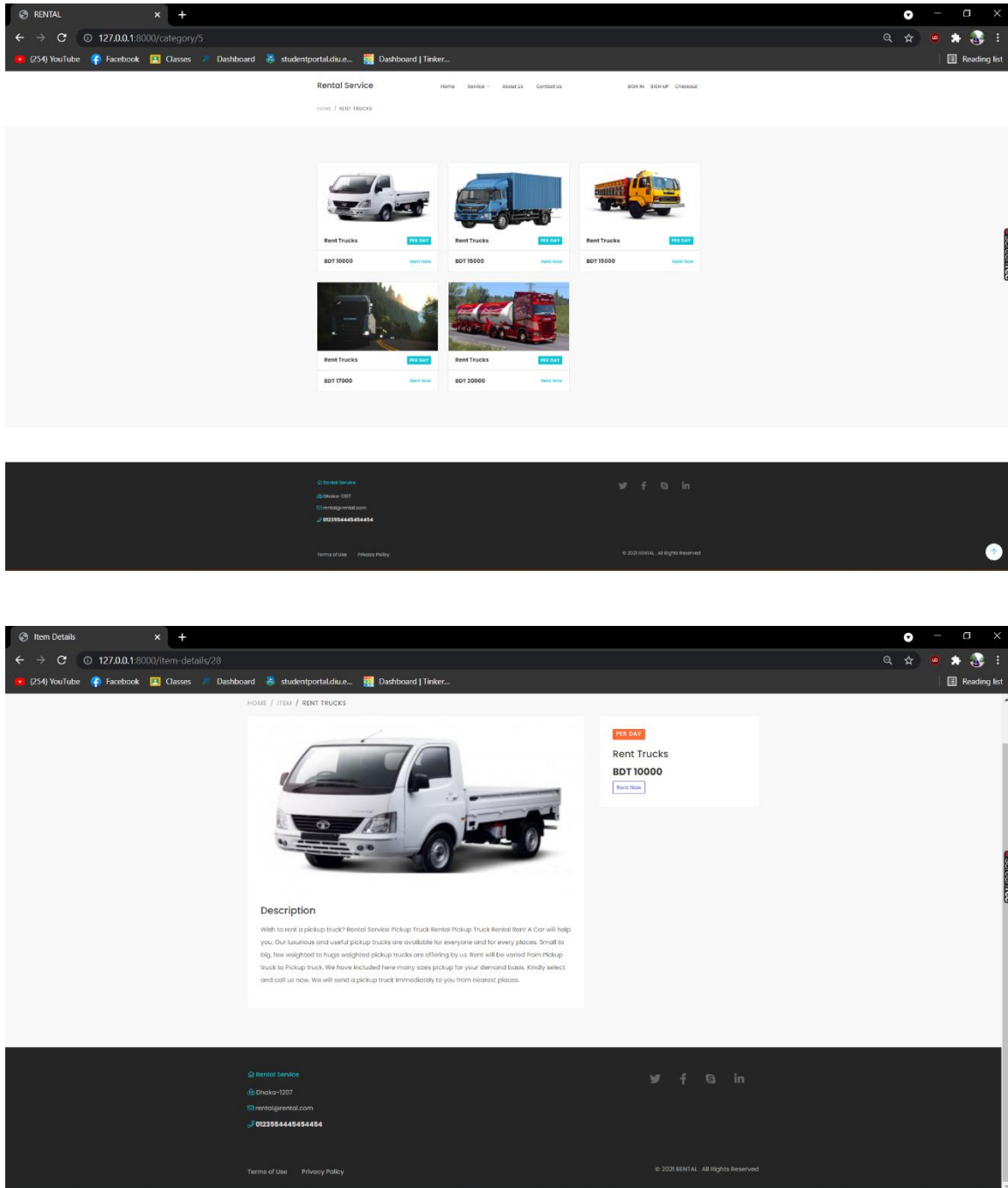


Figure 4.4.4: Trucks for Rent

4.4.5 Cycles for Rent

From this section the user can see the lists of Cycles and their details to see that if the user chooses any items they can select items for rent.

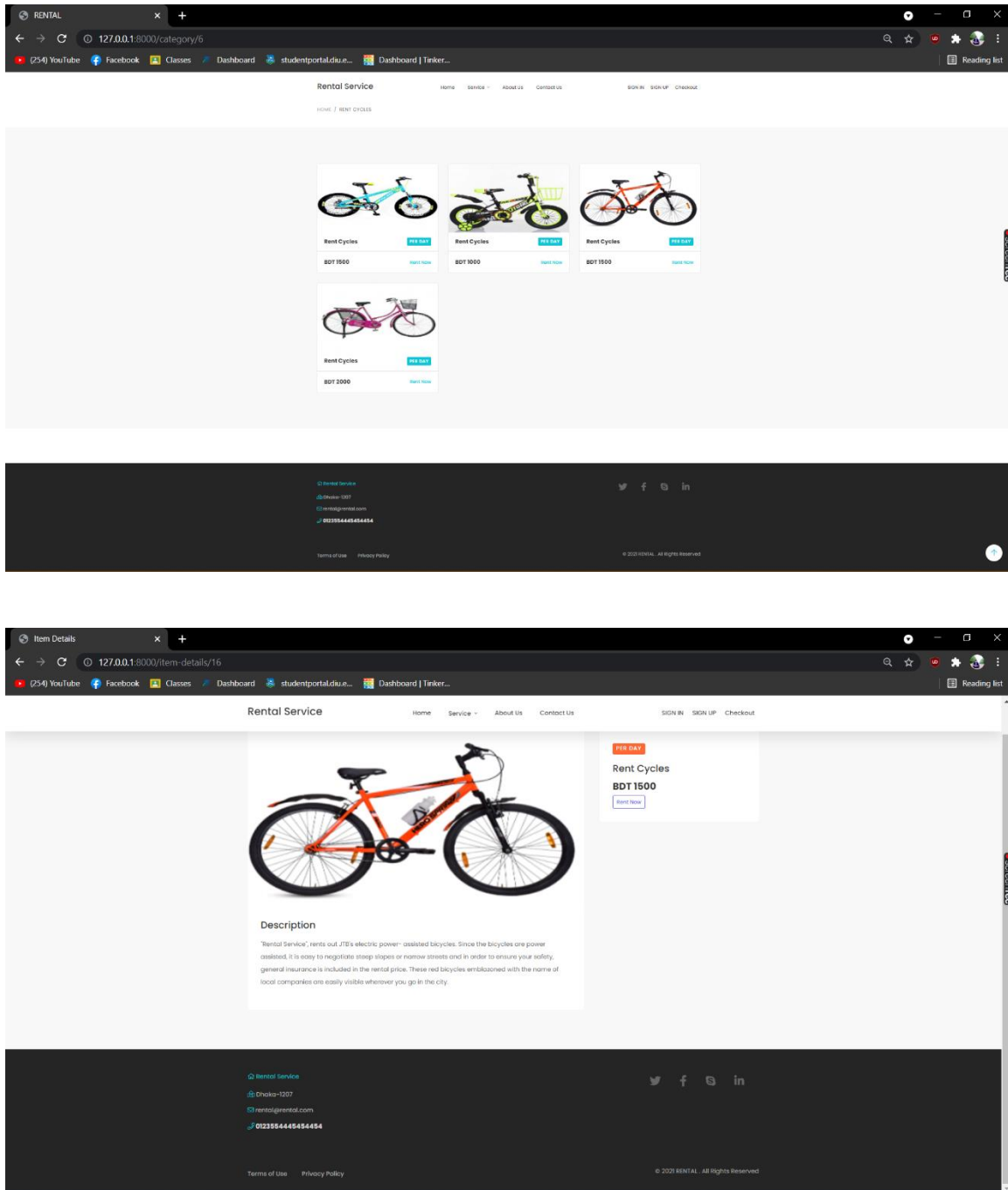


Figure 4.4.5: Cycles for Rent

4.4.6 Bikes for Rent

From this section the user can see the lists of Bikes and their details to see that if the user chooses any items they can select items for rent.

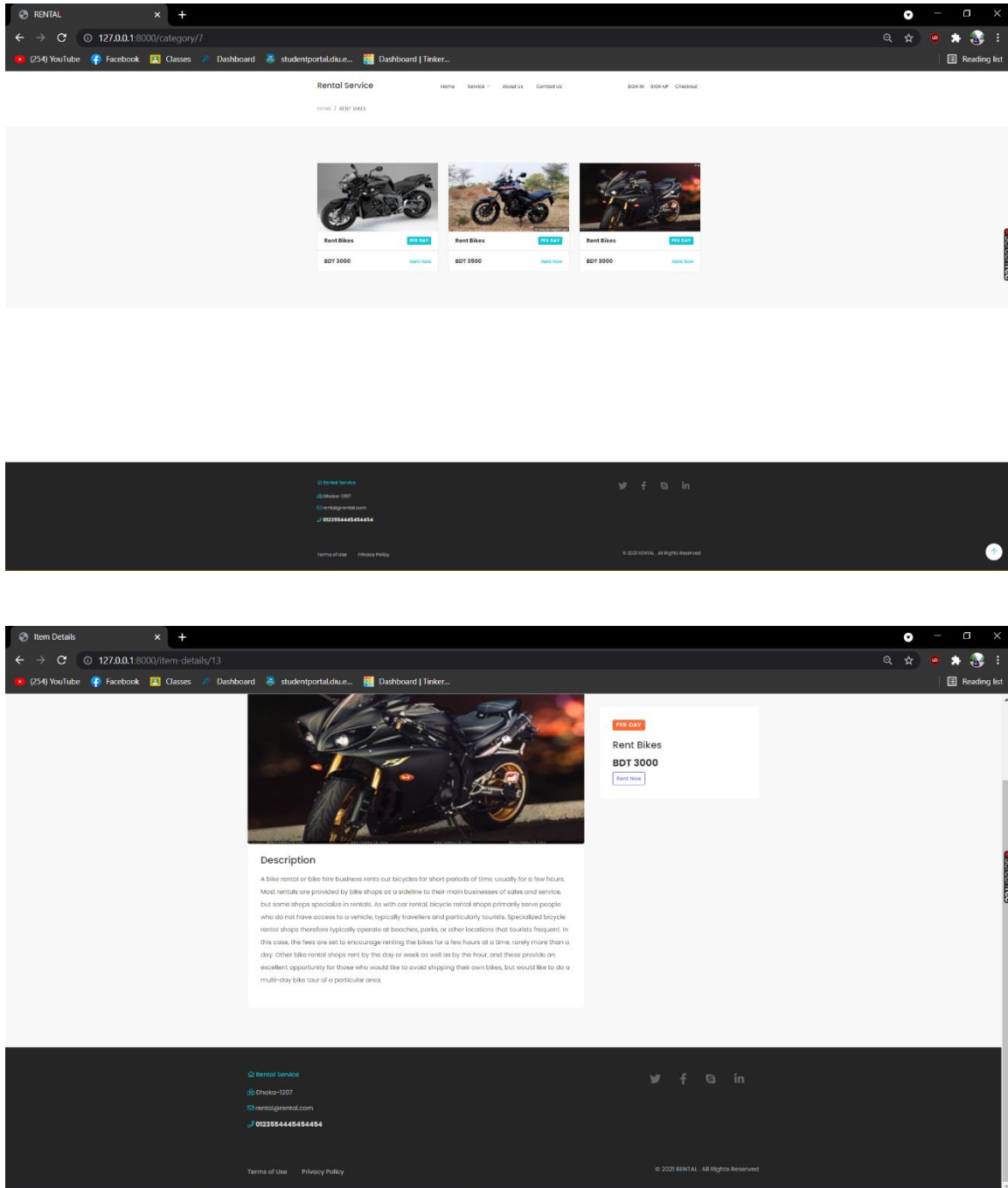


Figure 4.4.6: Bikes for Rent

4.4.7 Rent Weeding Dresses for Men

From this section the user can see the lists of Men Weeding Dresses and their details to see that the if the user choose any items they can select items for rent.

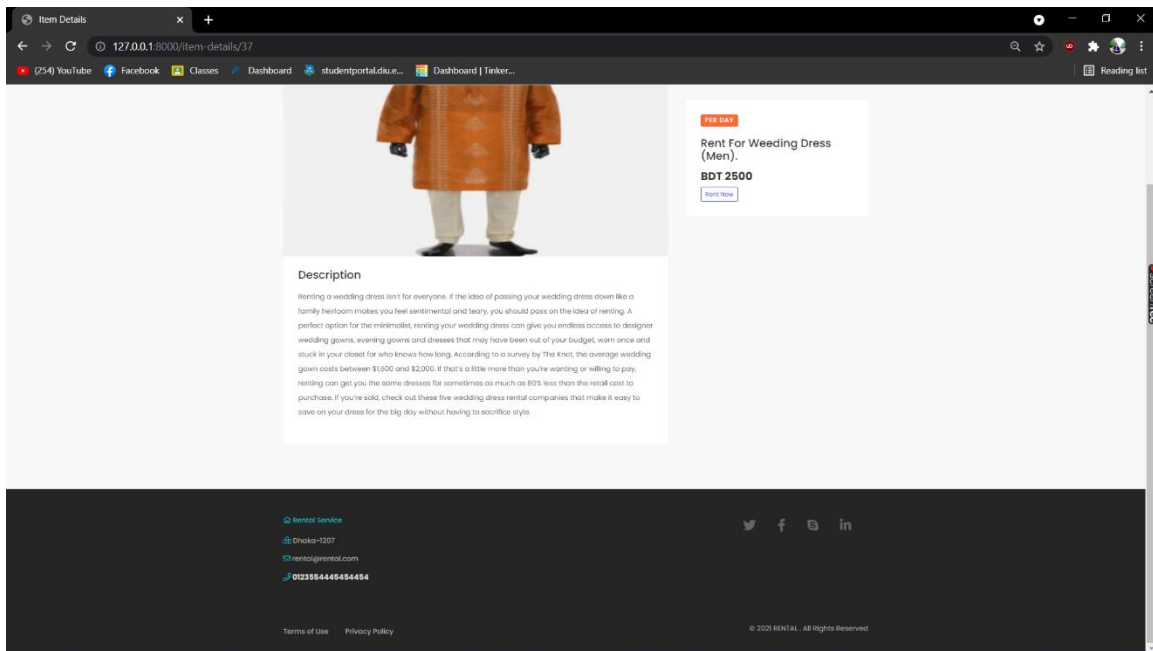
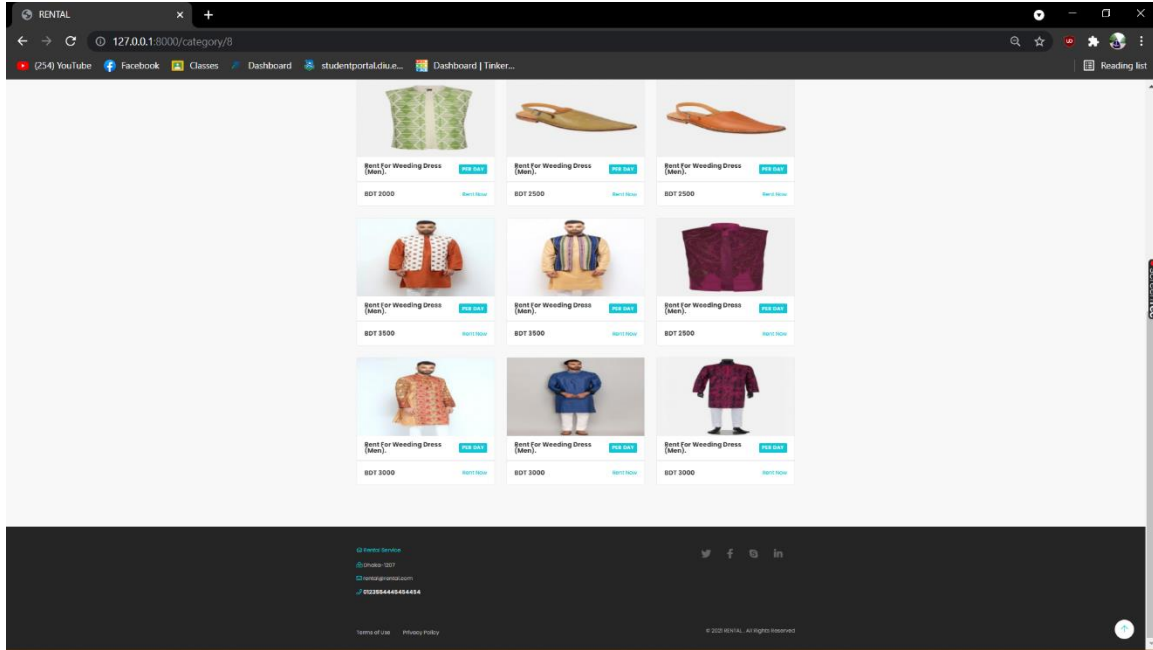


Figure 4.4.7: Rent Weeding Dresses for Men

4.4.8 Rent Weeding Dresses for Women

From this section the user can see the lists of Women Weeding Dresses and their details to see that the if the user choose any items they can select items for rent.

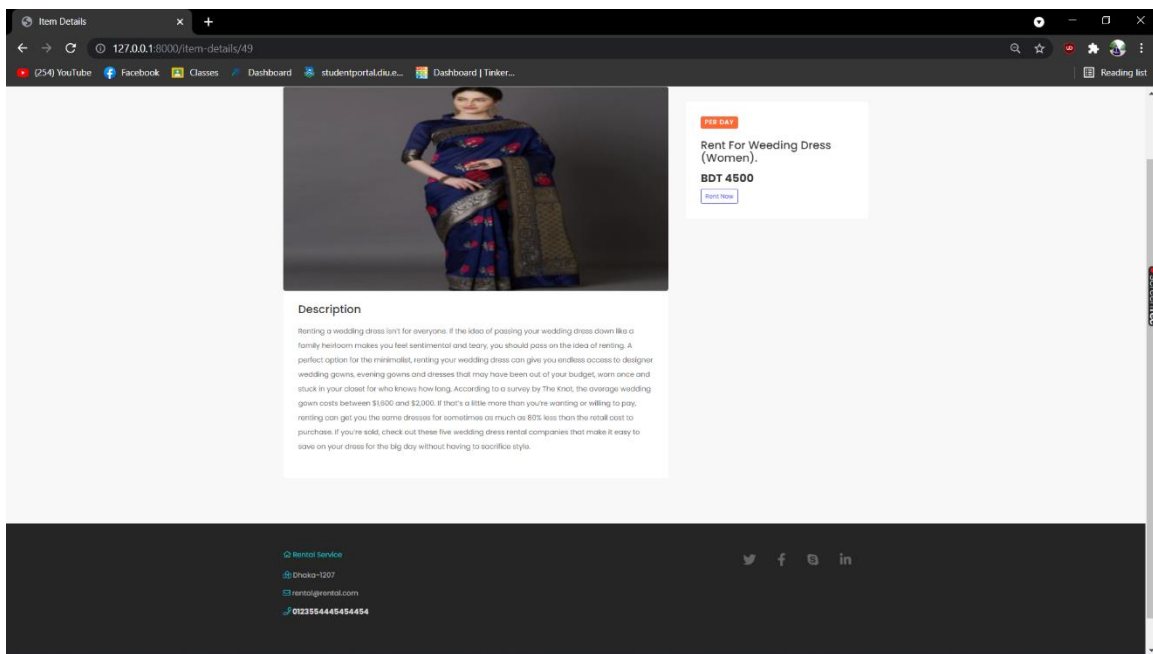
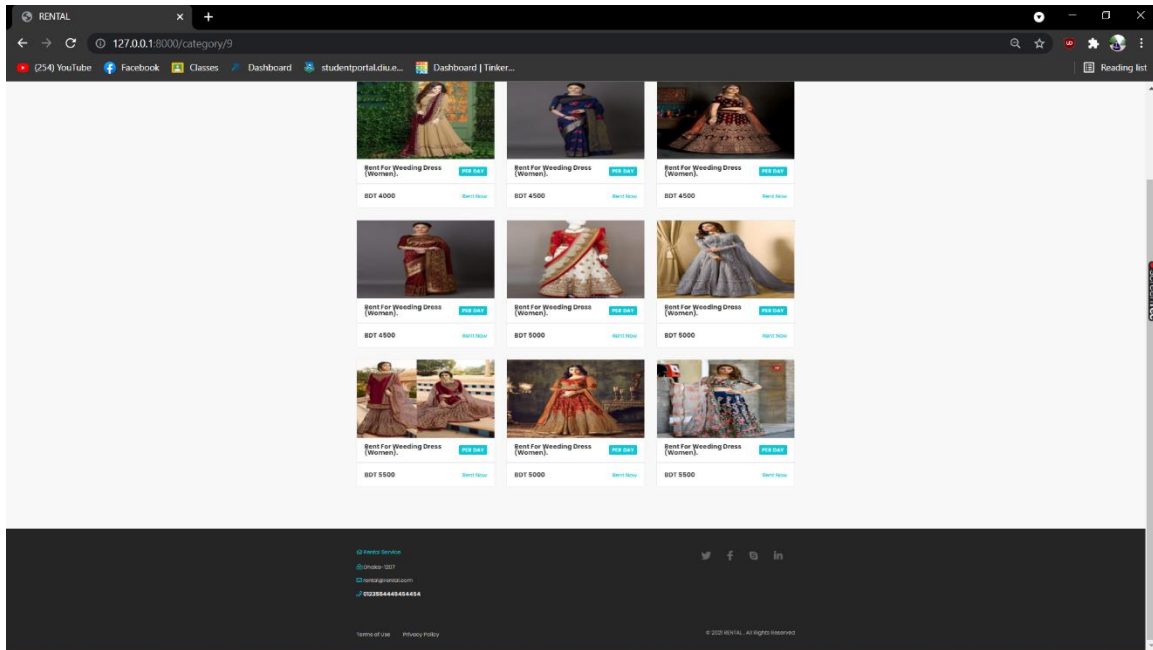


Figure 4.4.8: Rent Weeding Dresses for Women

4.4.9 Rent Weeding Houses

From this section the user can see the lists of Weeding Houses and their details to see that the if the user choose any items they can select items for rent.

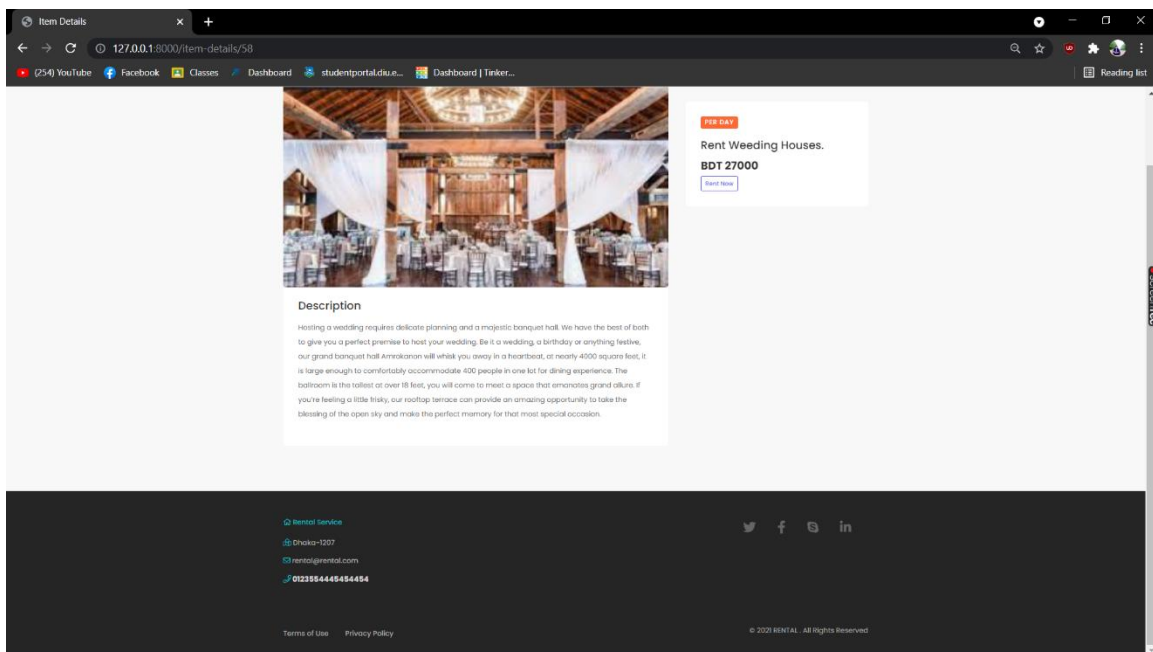
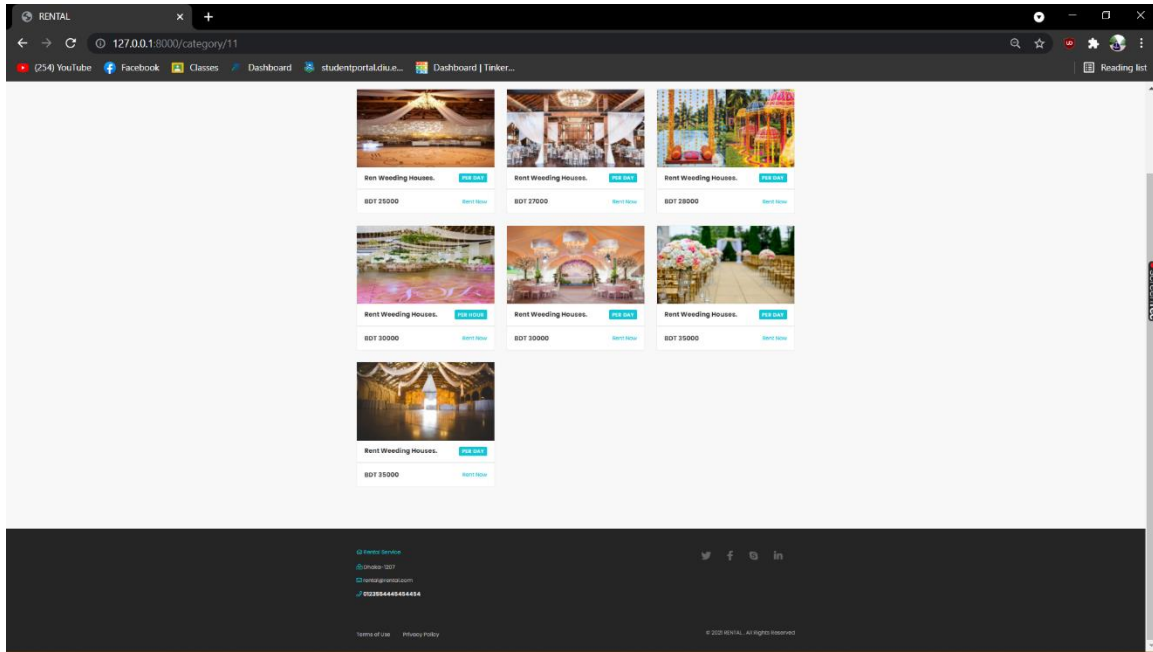


Figure 4.4.9: Rent Weeding Houses

4.5 Post ad for Rent

From this section the user can see all the posts of the products those are listed for the rent. Those products can see the user without registration or login.

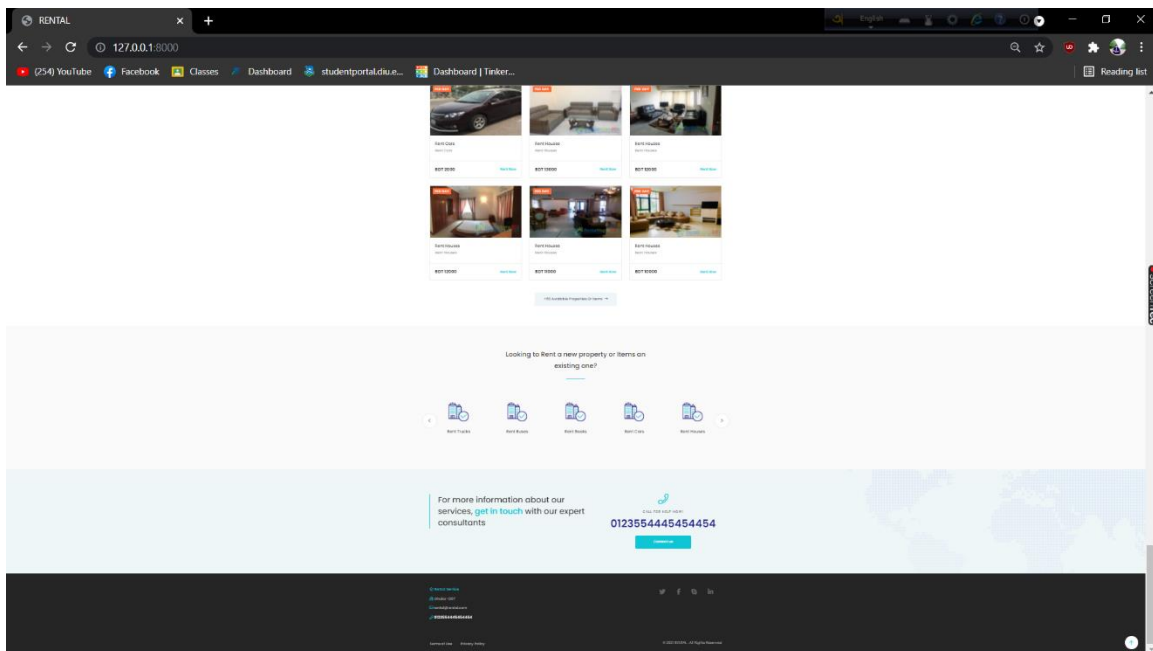
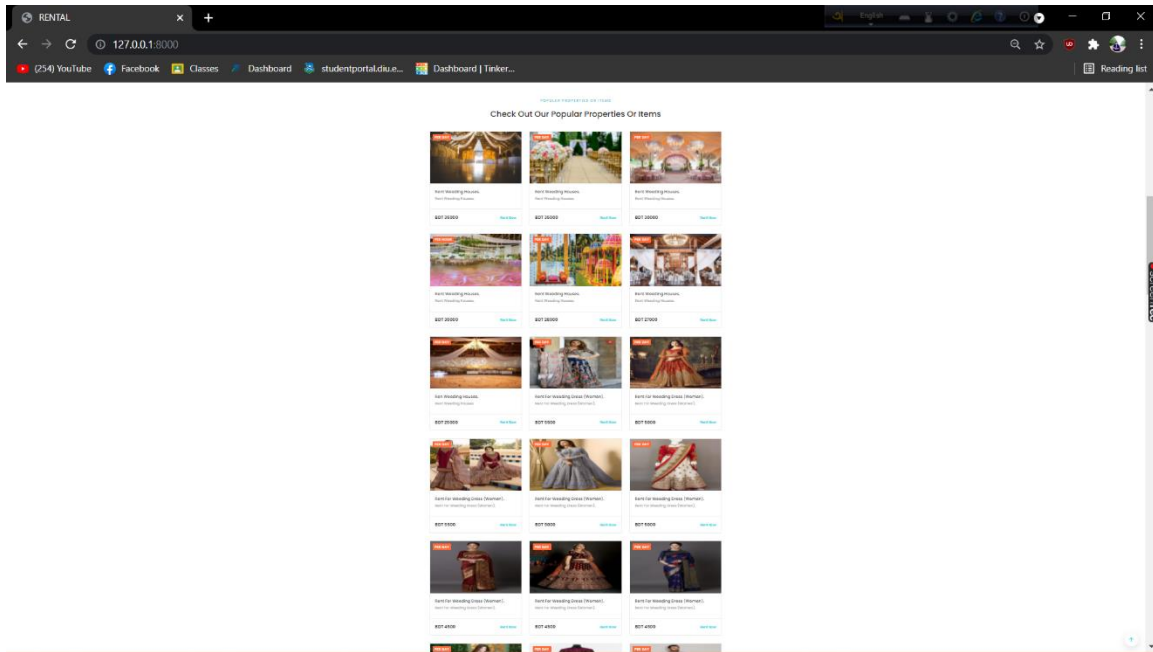


Figure 4.5: Post ad for Rent

4.6 About Us

From this section the user can know the details of the system developer and some short information of the system.

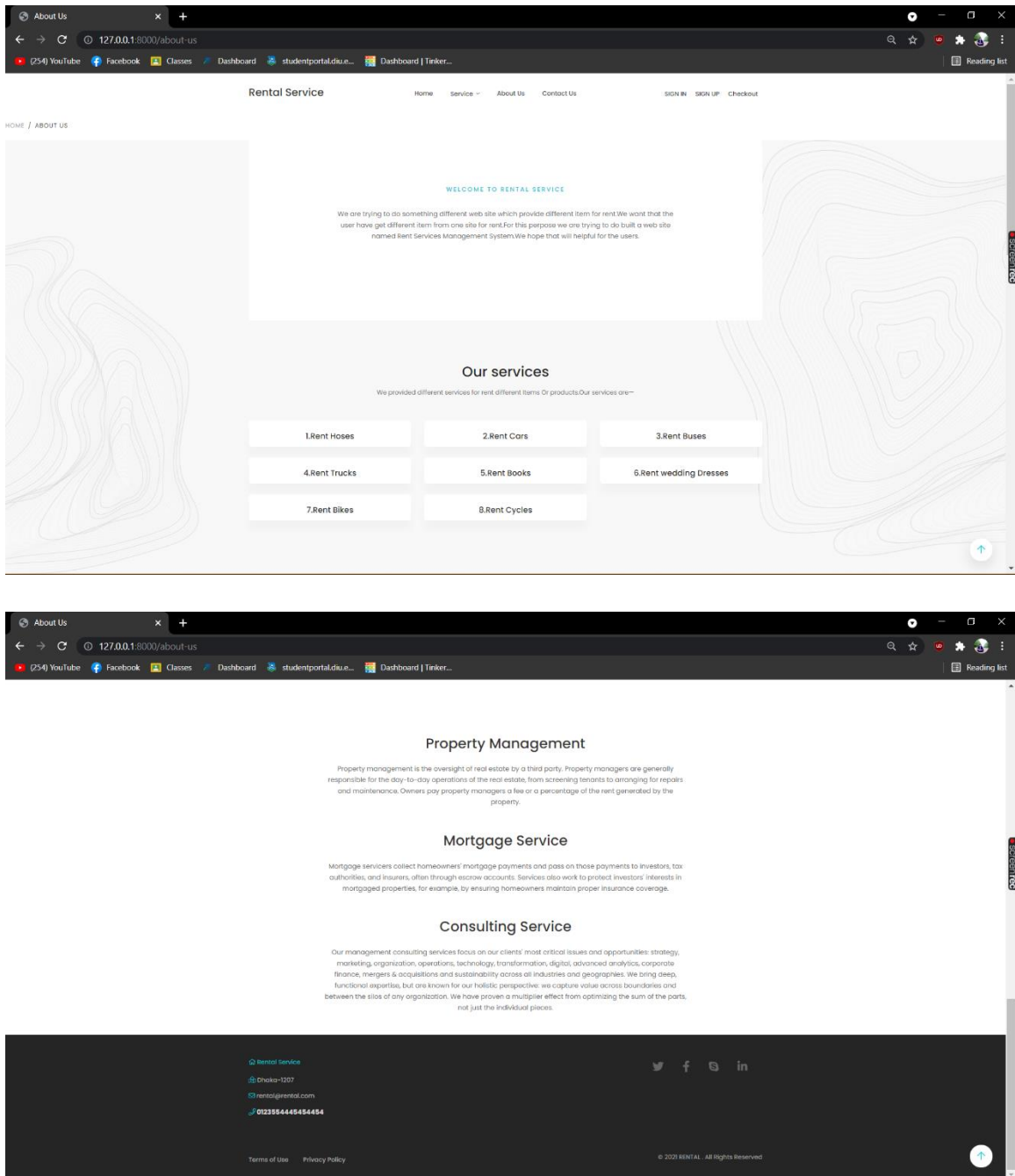
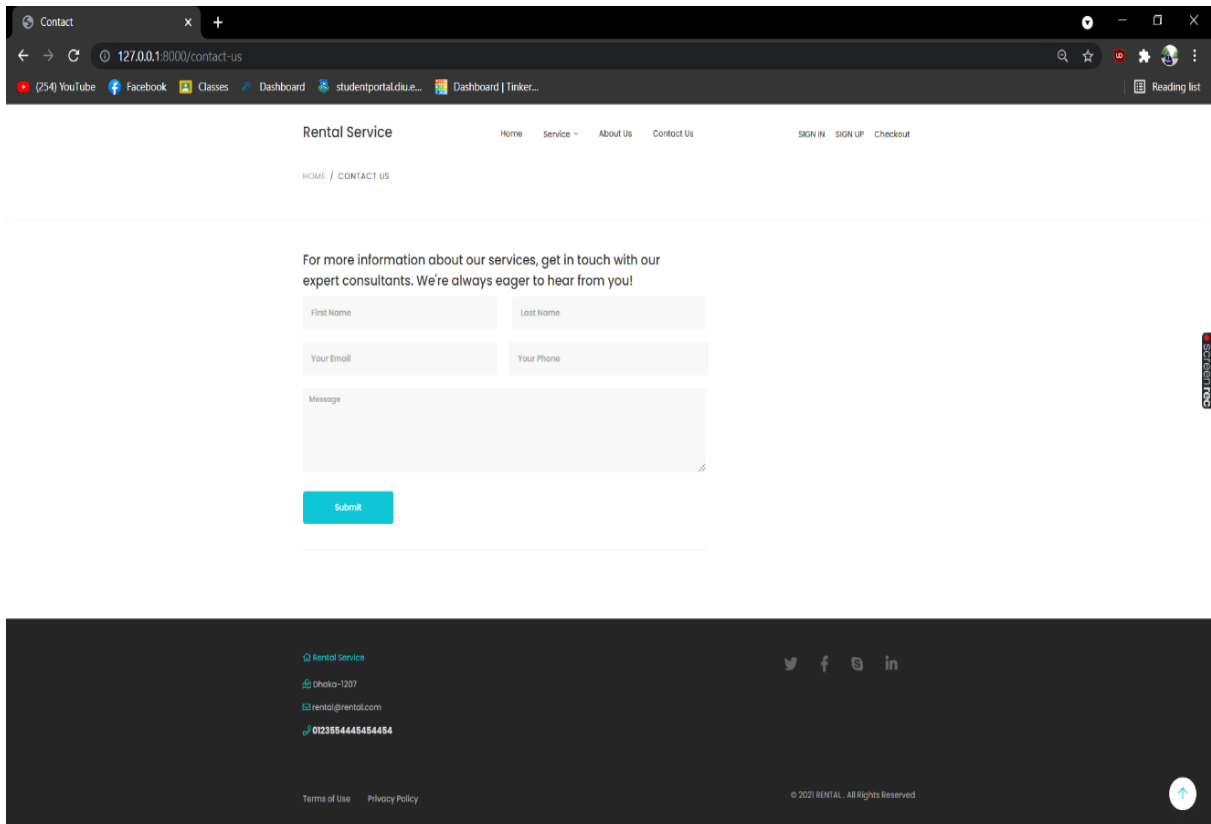


Figure 4.6: About Us

4.7 Contact Us

From this page the user can contact with the admin with using their mail and phone no and give a message.



The screenshot displays a web browser window with the address bar showing '127.0.0.1:8000/contact-us'. The page title is 'Rental Service'. The navigation menu includes 'Home', 'Service', 'About Us', and 'Contact Us'. There are also links for 'SIGN IN', 'SIGN UP', and 'Checkout'. The breadcrumb trail shows 'HOME / CONTACT US'. The main content area features a heading: 'For more information about our services, get in touch with our expert consultants. We're always eager to hear from you!'. Below this is a contact form with the following fields: 'First Name', 'Last Name', 'Your Email', 'Your Phone', and a 'Message' text area. A blue 'Submit' button is located at the bottom of the form. The footer contains social media icons for Twitter, Facebook, and LinkedIn, along with contact information: 'Rental Service', 'Dhaka-1207', 'rental@rental.com', and '01235444545454'. It also includes links for 'Terms of Use' and 'Privacy Policy', a copyright notice '© 2021 RENTAL. All Rights Reserved', and a small upward arrow icon.

Figure 4.7: Contact Us

4.8 Design of Back-End

In the admin forum, we are using the administrator trim. This trim is required for all administrator forum resources. We display data in the admin forum in table lay-out. Since the admin forum the administrator able to create, update, delete, can edit, display all of the information. If the administrator wanted to access the administrator panel, he or she first had to sign in. When the administrator enters the administrator panel then displays the administrator forum dashboard.

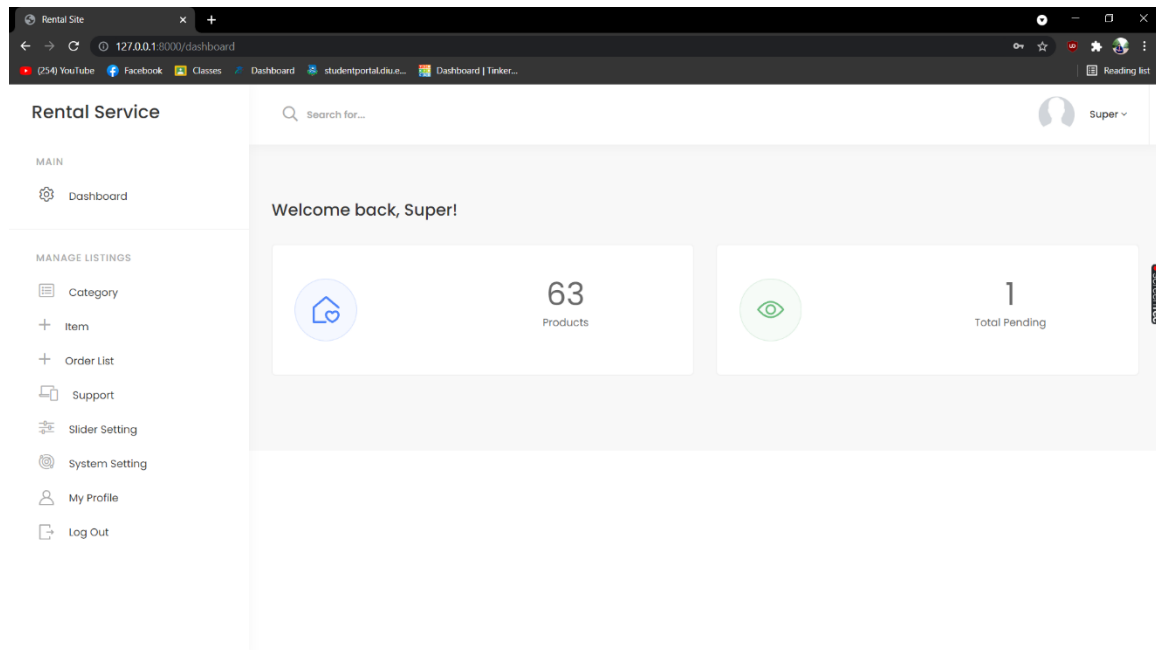
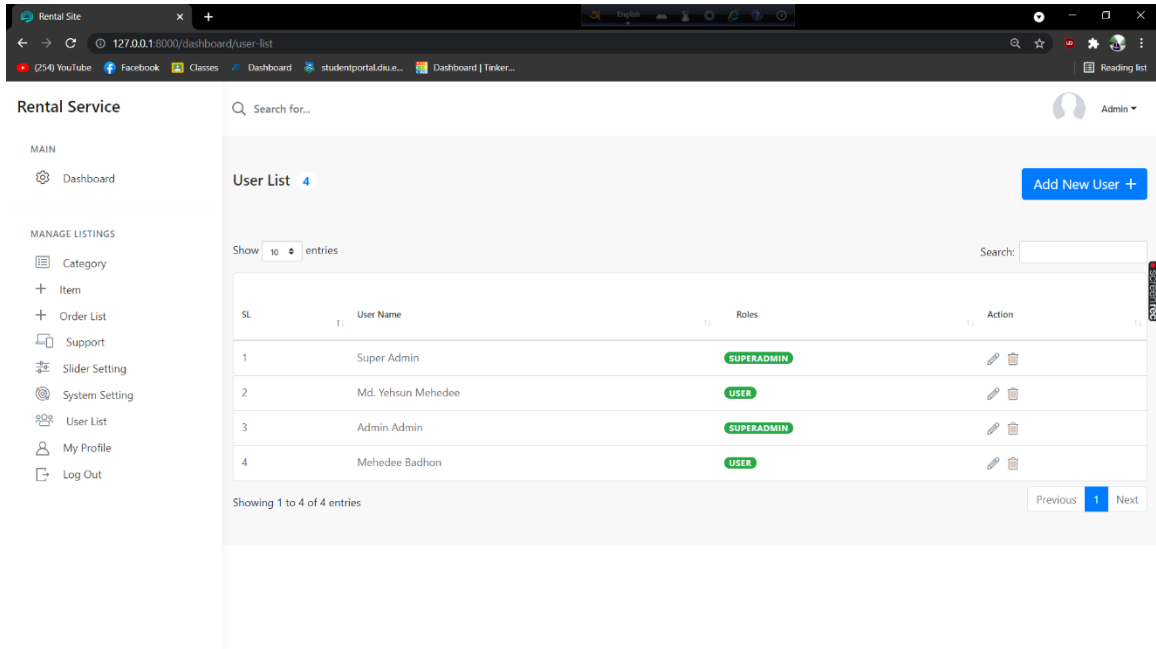


Figure 4.8: Admin Panel Dashboard

4.9 Add Users / Admins

From here the admin see the user list how much users are registered in the system. From here the admin also add the one or more user if the admin wants.



The screenshot shows a web application interface for a 'Rental Service'. The main content area displays a 'User List' with 4 entries. The table has columns for SL, User Name, Roles, and Action. The roles are SUPERADMIN and USER. A search bar and 'Add New User +' button are visible.









SL	User Name	Roles	Action
1	Super Admin	SUPERADMIN	 
2	Md. Yehsun Mehedee	USER	 
3	Admin Admin	SUPERADMIN	 
4	Mehedee Badhon	USER	 

Figure 4.9: Add User / Admin

4.10 Rent Products by Location

The user can rent any products to give their location and get the good service from the system controller.

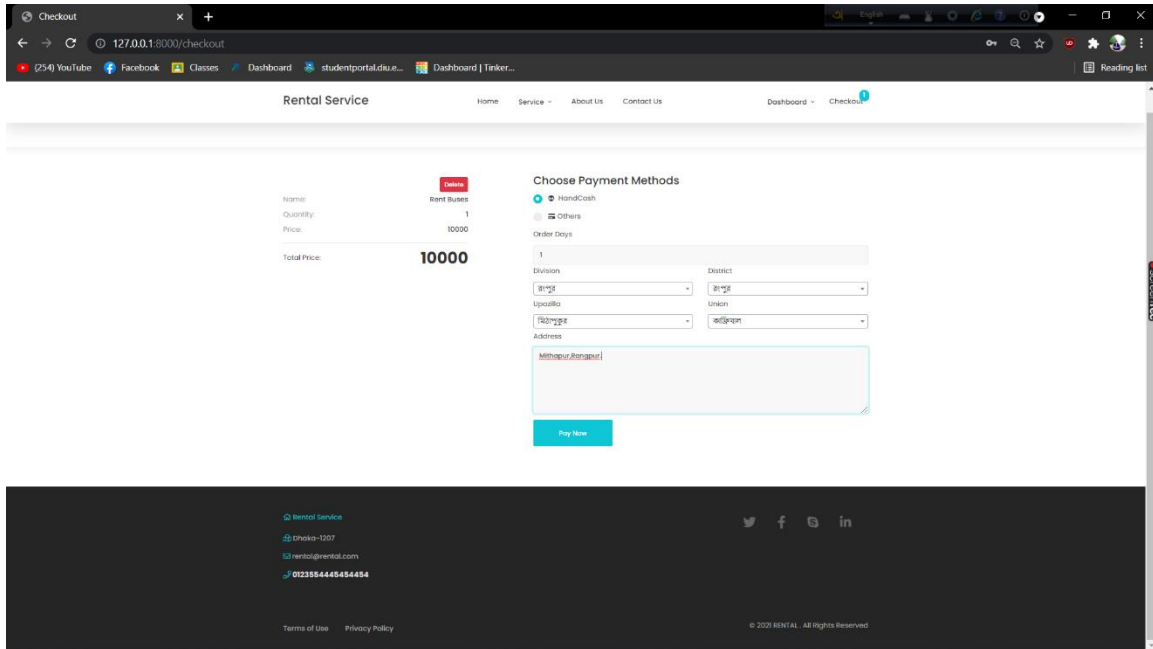
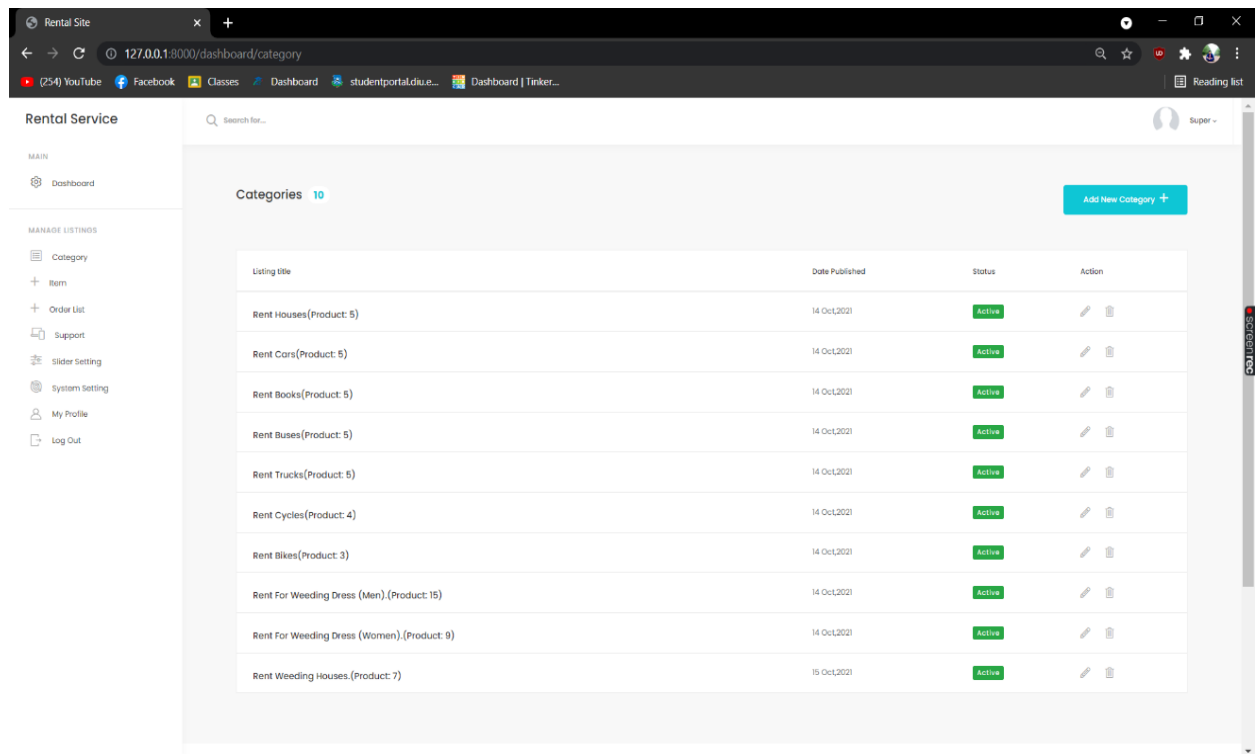


Figure 4.10: Rent Products by Location

4.11 Implementation of requirements

In the past it has been discussed that we use HTML, CSS, JAVASCRIPT and PHP (27aravel). By frame we use Laravel 7 We first created our template and then had to copy it by applying the HTML, CSS and JAVASCRIPT. With the PHP 27aravel, we are converting it into a 27aravel blade template. In some sections we are using an identical folder and file.



The screenshot displays a web dashboard for a 'Rental Service'. The main content area shows a table of categories. The table has four columns: 'Listing title', 'Date Published', 'Status', and 'Action'. There are 10 rows of data, each representing a different rental category. The status for all categories is 'Active'. The 'Action' column contains edit and delete icons for each row. A sidebar menu on the left lists various dashboard options like 'Dashboard', 'Category', 'Item', 'Order List', 'Support', 'Slider Setting', 'System Setting', 'My Profile', and 'Log Out'. A search bar is located at the top of the main content area.





















Listing title	Date Published	Status	Action
Rent Houses(Product: 5)	14 Oct,2021	Active	 
Rent Cars(Product: 5)	14 Oct,2021	Active	 
Rent Books(Product: 5)	14 Oct,2021	Active	 
Rent Buses(Product: 5)	14 Oct,2021	Active	 
Rent Trucks(Product: 5)	14 Oct,2021	Active	 
Rent Cycles(Product: 4)	14 Oct,2021	Active	 
Rent Bikes(Product: 3)	14 Oct,2021	Active	 
Rent For Weeding Dress (Men).(Product: 15)	14 Oct,2021	Active	 
Rent For Weeding Dress (Women).(Product: 9)	14 Oct,2021	Active	 
Rent Weeding Houses (Product: 7)	15 Oct,2021	Active	 

Figure 4.11: Data Table

This is the page of items from this page the admin can add any items of the products which the admin can want by the eagerness of the users as well the latest demand of the users. In another picture shows the order list of the users. Which means that the users how much products can be ordered or pending in the dashboard that is the part of the design of back-end.

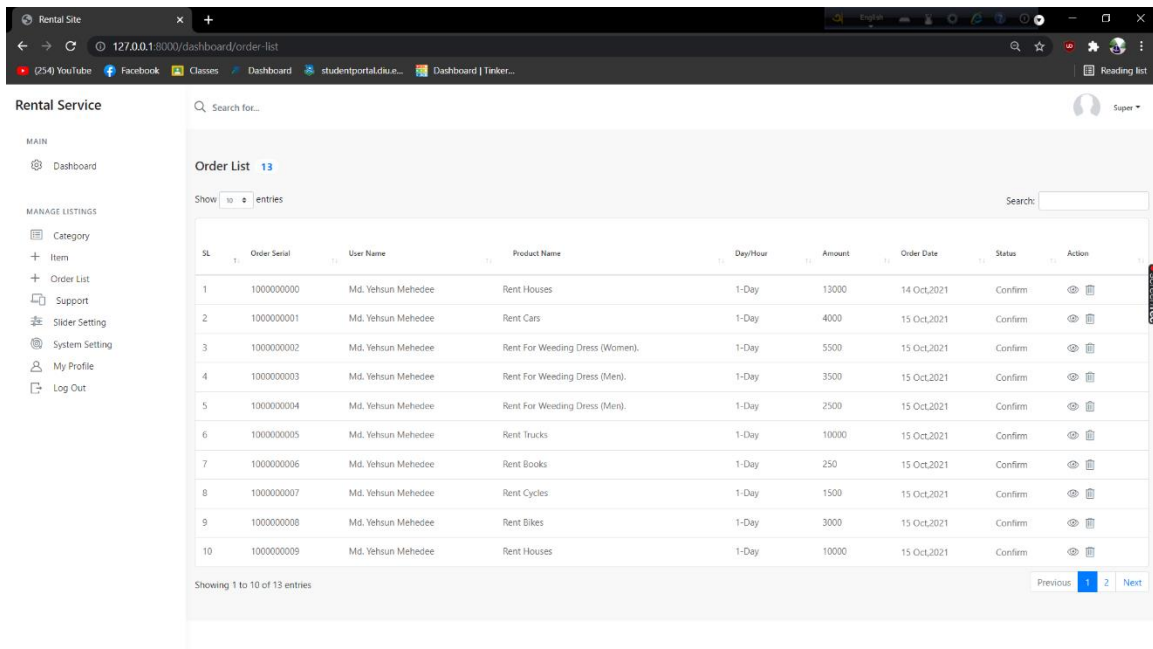
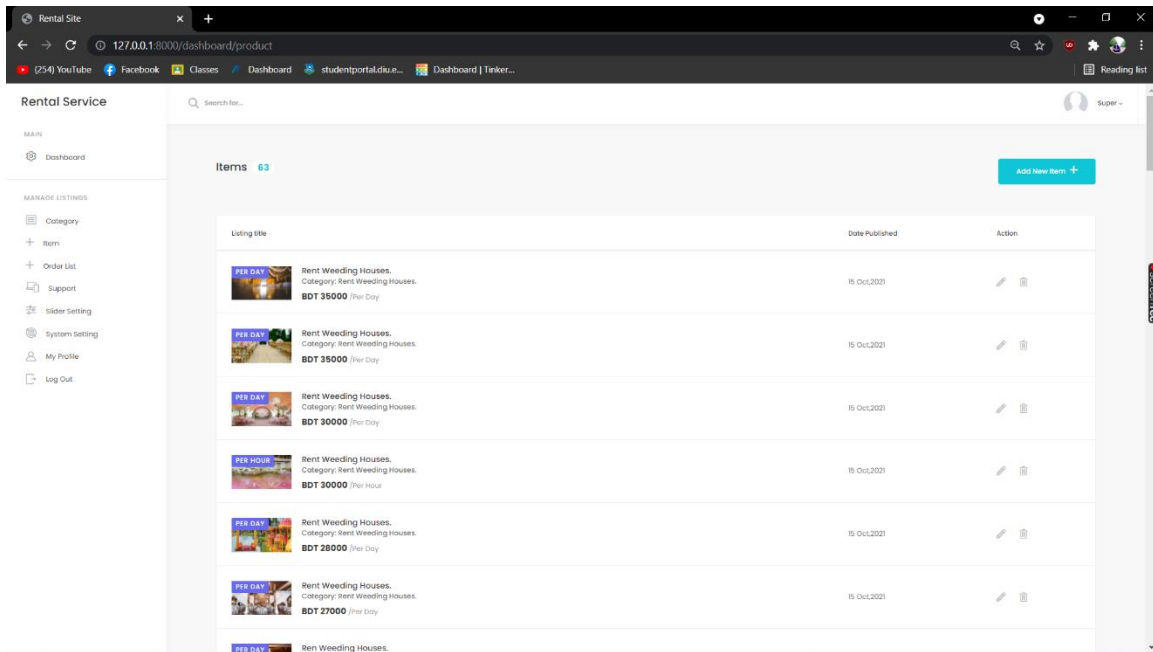


Figure 4.11: Data Table

CHAPTER 5

Implementation and Testing

5.1 Database Implementation

Database is one of the most significant part of any project. In this project, we are trying to make a database model for every different categories. For this, have to using a database named MYSQL for our project.

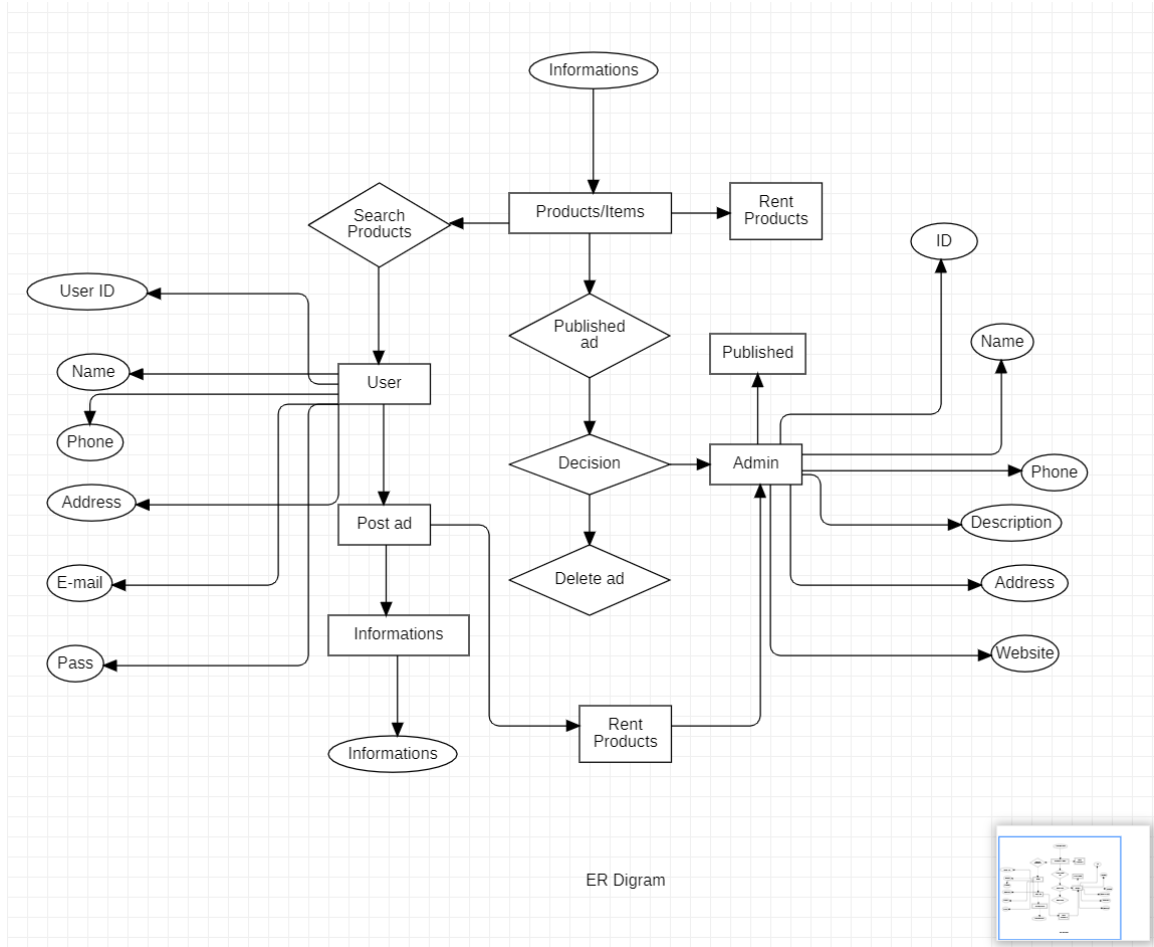


Figure 5.1.1: ER Diagram

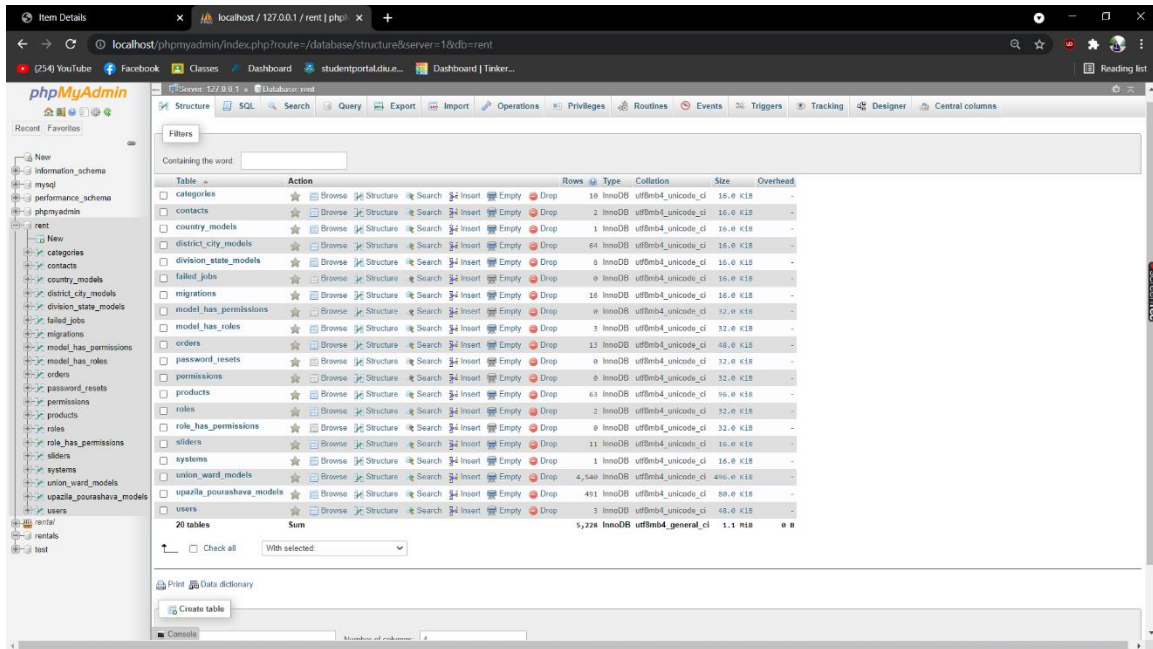


Figure 5.1.2: Database Table

5.2 Utilization

The utilization of the any software model in code and form construction is a very important part of any projects. It is a stage of application development. In this section the codes have been being written, the essential elements are compiled to edify a system.

5.3 Integration and Verification

In that section we try to bring all the pieces together in each test area. After that we look at bugs, interactions with bugs.

5.4 Result of Testing

In this section we evaluate our plan to determine the outcome of our project. During testing in the application there is no technical error. The system works very well and there are no bugs to deal with.

Table 5.4.1: Result of Testing Table

S.L No	Test Result	Expected Result	Result
1	Sign Up	When unregistered user sign up or registered in the system the data stored in the MYSQL database.	Successful
2	Log In	When the user Log in in the system for renting any products or items then the users can entree their account by applying the present information.	Successful
3	Forgot-Password	An E-Mail should be mailed to the certified E-Mail here we are using mail trap for authentication.	Successful
4	Upload Products/Items	The admin able to upload the images with details for the particular products.	Successful
5	Delete Products	When users order any products or Items unknowingly the user can able to delete those items or products from their dashboard.	Successful
6	Message Passing	When the user wants to know about the services or anything they able to pass message through their mail and phone no by using the contact us page which is contain with a form.	Successful
7	Log Out	Exit from the application.	Successful

CHAPTER 6

Completion and Future Scope

6.1 Completion

The key factor of our system will be able to provide the web-based system that will enable users to search for products and services by category or geographical location. This system will allow users to connect with the companies that provide these services.

6.2 Future Scope

The key factor of our system will be able to provide a simple and effective way for the user to get expected items or products that they want. This project can be easily done by creating a username, clicking on the items or categories, and printing a confirmation code.

The development of our system able to under processing. Some of areas for the further works of our system is marked out here:

- a) Assuring that the much and more options to search the items or products.
- b) Admin panel should be dynamic.
- c) Improving that we will be taking the review about our system and how can we be improved more.
- d) In the future we will converting the whole system into an android system or application.

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