

PET GROOMING SALON & HOSTEL MANAGEMENT

Submitted in partial fulfillment of the requirements of

PG Diploma in Advanced Computing

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CERTIFICATE

This is to certify that the project entitled “**Pet Grooming & Hostel Management**” is a bonafide work of “**Kanif Dhawale 210943120038, Siddhesh Pawar 210943120067, Harish Salunkhe 210943120084, Hitesh Shinde 210943120090**” submitted to **Infoway Technologies, Pune** in partial fulfilment of the requirement for the award of the Post Graduate Diploma in Advanced Computing.

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DECLARATION

I declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed

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ABSTRACT

Pet grooming is a service designed for pet owners who lack the time and knowledge to groom their pets personally. Pet grooming services, such as bathing, nail clipping and Dental Care make it easier for pet owners to meet their pets' grooming needs. Pet groomers assist owners in maintaining the health and physical appearance of their pets without spending any extra time or effort.

In this project we are developing a website that will provide online platform to Pet Groomers & Pet Hostel owners to spread their business online & get more work opportunities. Here they will register themselves and will get of their work. The client needs to simply register to website and can book pet groomer & book certified pet hostels online.

Keywords:- Services, Bathing, Clipping, Dental Care.

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Chapter 1

Introduction

In This Project Grooming is a vital part in the well-being and healthiness of a pet, which can improve its quality of life. How much grooming a pet needs depends on its breed, age, and health. Regular grooming helps to ensure the dog is healthy and comfortable. While many pets *shed*, others such as the poodle, do not shed as profusely and require grooming every 4-8 weeks.

One of the most important parts of pet hostel business is the booking process. Modern pet hotels know that manually updating spreadsheets or writing information down on paper simply doesn't cut it in today's digital world. Instead, you should implement an online reservation system to help streamline your processes and encourage more customers to book with you.

A pet grooming & hostel reservation system is an online system that can be used in your animal business to give customers the ability to place bookings and reservations securely online from the comfort of their own home.

Rather than having to contact you to check availability or prices, and then wait for a response, they can do all of that themselves in a couple of clicks. They can place their booking, make their payment and then sit back and wait for the booking date to come around.

As well as bookings, online reservation systems digitize your pet grooming & hostel admin processes to cut down on your administration time and give you back some much-needed hours.

Clever online pet software also has functionality to let them know that their payment has been received and even remind them when their booking date is close.

With online booking software, you'll no longer have to spend your evenings and weekends chained to the computer; the reservation system can handle all of that by itself.

1.1 Problem Definition:

This existing system has several disadvantages. It requires time to travel to the home to grooming shop/hostel. Since everyone is leading busy life now days, time means a lot to everyone. Also there are expenses for travelling from house to shop. It is less user-friendly. In current system user must go to shop and take a service. More over the home from where we would like to take a service some time may not be open 24*7*365.

1.2 Objective of Project:

In a pandemic situation like corona, we faced many problems for take care of our pets. For user, it has become very difficult to analyze how take care of our pets. For household , they had to carry pet and have to walk a long to take a service. So we came up with an idea of making a Pet Grooming, Salon & Hostel System website to provide better solution for customer to book appointment from home & benefits to the customer on take a service.

Chapter 2

Analysis

3.1. Existing System

This existing system has several disadvantages. It requires time to travel to the home to grooming shop/hostel. Since everyone is leading busy life now days, time means a lot to everyone. Also there are expenses for travelling from house to shop. It is less user-friendly. In current system user must go to shop and take a service. More over the home from where we would like to take a service some time may not be open 24*7*365.

3.2. Proposed System

The Pet Grooming, Salon & Hostel Management System is available 24*7 to book appointment and is time saving system. This system gives assured service and makes the customer use anytime. It makes easier to customer by having information about the booking details by visit website.

3.3. Software Requirement Specification

1. **Frontend-** REACTJS
2. **Backend-** Spring Framework
3. **Database-** MySQL 5.7 with Workbench 8.0
4. **Google Chrome** version 79.0
5. **Apache Tomcat** Server 9.0

3.4. Hardware Requirement Specification

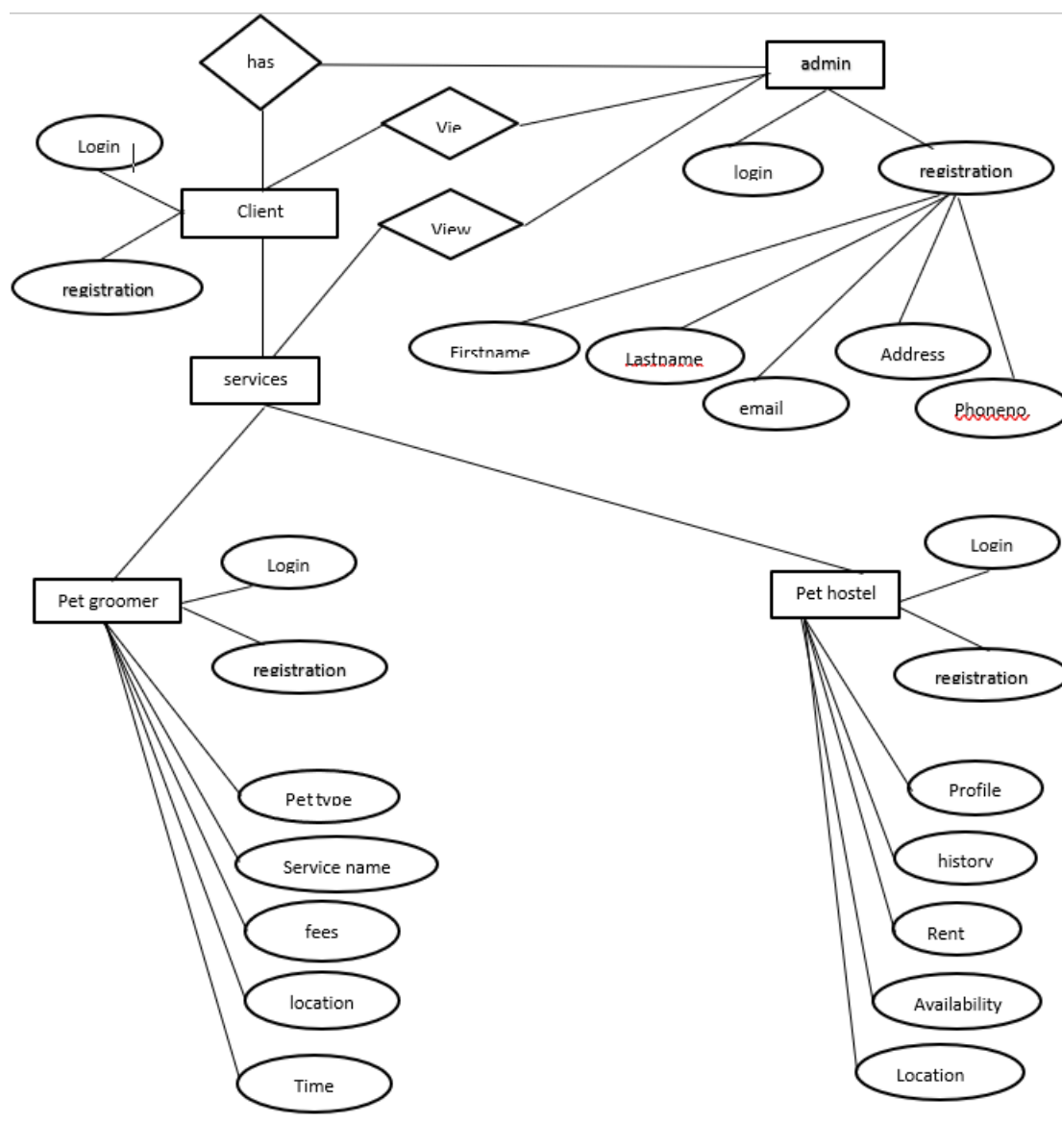
1. Intel i3 processor 3rd generation or later / AMD Ryzen 200 2nd generation or later
2. 2 GB ddr3 ram.
3. Windows 7 Home edition or later.
4. 200 GB Sata HDD Space
5. Data Connection 200 kbps

Chapter 3

DESIGN

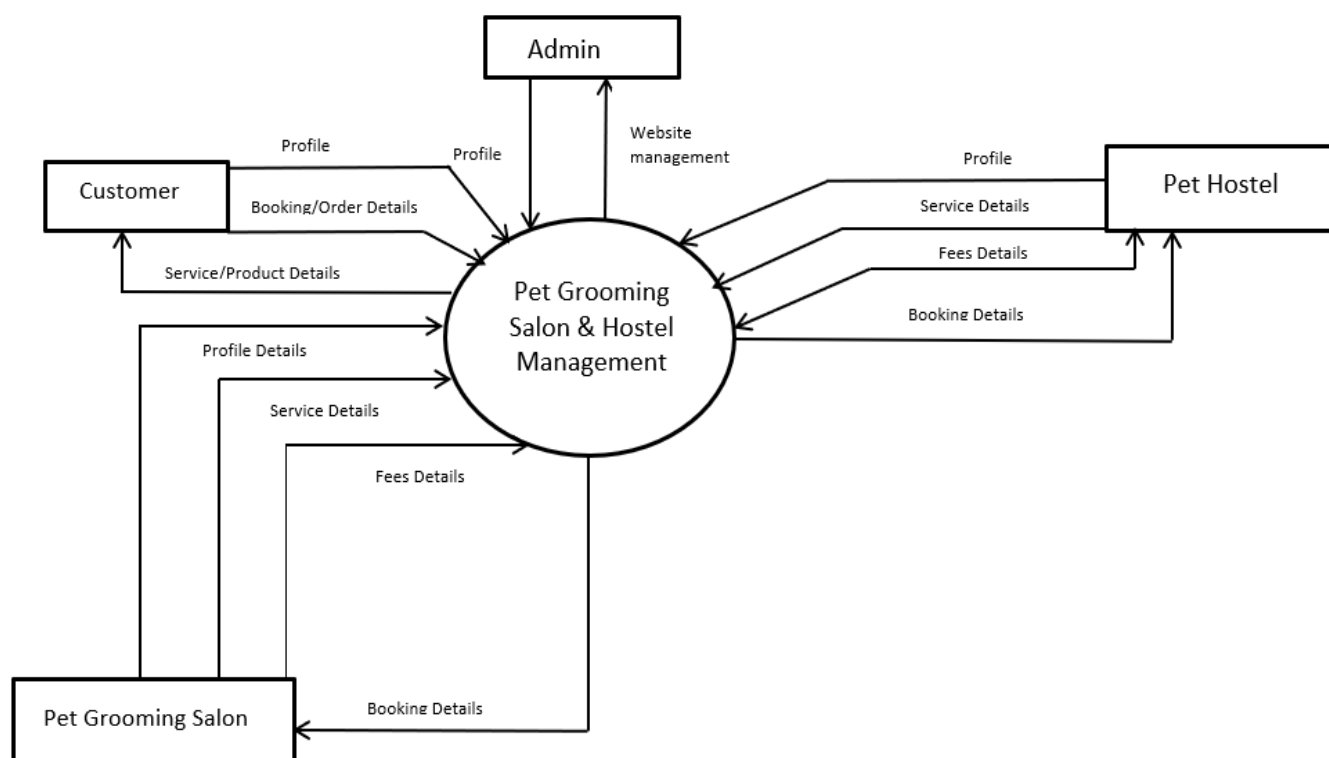
3.1 UML Diagrams

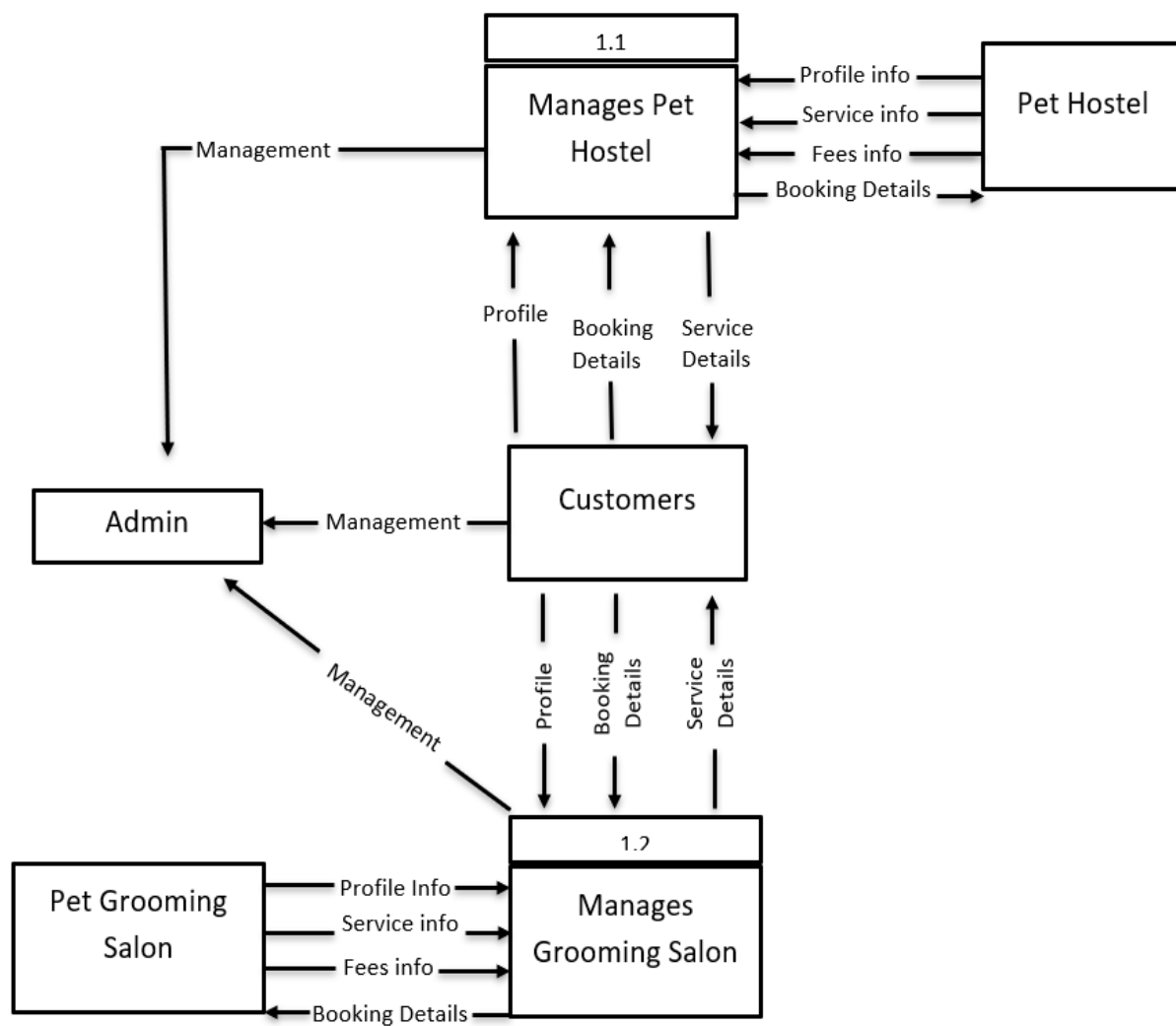
3.1.1 E-R Diagram:



3.1.2 Data Flow Diagram (DFD):

Level 0:



Level 1:

Chapter 5

Implementation

5.1 Modules:

1. Admin Section
2. Pet Groomer section:
3. Pet Hostel section:
4. Client section:

5.2 Module Description:

1. Admin section:

Admin can do all CRUD operations for Pet Grooming and Hostel Management like viewing of the profile and website management.

2. Pet Groomer section:

In this section the pet groomer receives details of booking with all the services to be groomed. He then updates the grooming details and profile details to the client.

3. Pet Hostel section:

After getting the booking and services details, the fees is decided and send to client.

4. Client section:

In this section the client checks the grooming services done to his pet and pays the fees.

5.3 Introduction of Technologies Used:

1. Spring Framework:[BACKEND]

Spring Framework is a Java platform that provides comprehensive infrastructure support for developing Java applications. Spring handles the infrastructure so you can focus on your application.

Spring enables you to build applications from “plain old Java objects” (POJOs) and to apply enterprise services non-invasively to POJOs. This capability applies to the Java SE programming model and to full and partial Java EE.

1.1 Features of Spring Framework:

1. Lightweight:

Spring is modular lightweight framework which allows you to selectively use any of its modules on the top of Spring Core.

2. Inversion of Control (IOC):

This is another top feature of Spring framework where application dependencies are satisfied by the framework itself. Framework creates the object in runtime and satisfies application dependencies.

3. Aspect Oriented Programming (AOP):

Aspect Oriented Programming (AOP) is very popular in programming world and in Spring it is well implemented. Developer can use Aspect Oriented Programming (AOP) feature of Spring to develop application in which business logic is separated from system services.

4. Container:

Spring provides their own container for managing the bean lifecycle.

5. Transaction Management:

Spring framework provides generic Transaction Management layer which can be used with or without J2EE(JEE) environment.

6. JDBC Exception Handling:

Spring provides their own abstraction of JDBC exception which further simplifies the exception handling in program.

1.2 Advantages of Spring Framework:

1. Solving difficulties of Enterprise application development

Spring is solving the difficulties of development of complex applications, it provides Spring Core, Spring IoC and Spring AOP for integrating various components of business applications.

2. Support Enterprise application development through POJOs

Spring supports development of Enterprise application development using the POJO classes which removes the need of importing heavy Enterprise container during development. This makes application testing much easier.

3. Easy integration other frameworks

Spring designed to be used with all other frameworks of Java, you can use ORM, Struts, Hibernate and other frameworks of Java together. Spring framework do not impose any restriction on the frameworks to be used together.

4. Application Testing

Spring Container can be used to develop and run test cases outside enterprise container which makes testing much easier.

5. Modularity

Spring framework is modular framework and it comes with many modules such as Spring MVC, Spring ORM, Spring JDBC, Spring Transactions etc. which can be used as per application requirement in modular fashion.

6. Spring Transaction Management

Spring Transaction Management interface is very flexible it can be configured to use local transactions in small application which can be scaled to JTA for global transactions.

2.ReactJS:[FRONTEND]

ReactJS is a declarative, efficient, and flexible JavaScript library for building reusable UI components. It is an open-source, component-based front end library responsible only for the view layer of the application.

A ReactJS application is made up of multiple components, each component responsible for outputting a small, reusable piece of HTML code. The components are the heart of all React applications. These Components can be nested with other components to allow complex applications to be built of simple building blocks. ReactJS uses virtual DOM based mechanism to fill data in HTML DOM. The virtual DOM works fast as it only changes individual DOM elements instead of reloading complete DOM every time.

Features of React:

1. JSX:

JSX stands for JavaScript XML. It is a JavaScript syntax extension. Its an XML or HTML like syntax used by ReactJS.

2. Components:

ReactJS is all about components. ReactJS application is made up of multiple components, and each component has its own logic and controls.

3. One-way Data Binding:

ReactJS is designed in such a manner that follows unidirectional data flow or one-way data binding. The benefits of one-way data binding give you better control throughout the application.

4. Virtual DOM:

A virtual DOM object is a representation of the original DOM object. It works like a one-way data binding.

5. Simplicity:

ReactJS uses JSX file which makes the application simple and to code as well as understand.

6. Performance:

ReactJS is known to be a great performer. This feature makes it much better than other frameworks out there today. The reason behind this is that it manages a virtual DOM.

3. MySQL:[DATABASE]

MySQL, the most popular Open Source SQL database management system, is developed, distributed, and supported by Oracle Corporation.

Features of MySQL:

- 1. MySQL is a database management system:**
- 2. MySQL databases are relational.**
- 3. MySQL software is Open Source.**
- 4. The MySQL Database Server is very fast, reliable, scalable, and easy to use.**
- 5. MySQL Server works in client/server or embedded systems.**

Chapter 6

TEST CASES

Test Id	Item to be Tested	Steps	Input	Actual Output	Expected Output	Pass/Fail
1	User Name	User need to enters user name and Password	User name Password	Display Home Page	Display Home Page	Pass
2	System check for proper username and password entered by users	System compares the data entered by user and the entered data in database	User name password			
2.1		If username and password is valid		Make connection	Make connection	pass
2.2		If username and password is invalid		Report invalid user name	Report Connection error	pass
3.	System checks Pet Grooming Details of user are entered as per the format.	System checks whether the entered details are valid form or not.				
3.1		If the form is valid	User entered the data	Data entered in Database	Data entered in Database	Pass
3.2		If the form is invalid	User entered the data	"Invalid Data" message will be printed	"Invalid Data" message will be printed	Pass
4	System checks whether data entered by Pet Hostel Owner as per given request	System checks whether data entered by Pet Hostel Owner is valid or not valid				
		If the data is valid	Pet Hostel Owner entered the data	Data entered in Database	Data entered in Database	Pass
		If the data is invalid	Pet Hostel Owner entered the data	"Invalid Data" message will be printed	"Invalid Data" message will be printed	Pass

A Full System test will be conducted including following type of tests:

1. Funtional Testing:

To be truly robust application require more than simple functional testing before release into production.

- Permits only secure and authentication access.
- Thus requires the user to be registered with the system before use.
- Does all validation time to time as per the need.
- Does all the convention of the data internally while requires.
- Appropriate alerts are generated as per the conditions for user convenience.
- Database is updated time to time as the transaction process proceeds.

At least one and preferably all of the following type of testing before realizing application to customers should be performed.

2. Manual Testing:

Manual testing is a software testing process in which test cases are executed manually without using any automated tool. All test cases executed by the tester manually according to the end user's perspective. It ensures whether the application is working, as mentioned in the requirement document or not. Test cases are planned and implemented to complete almost 100 percent of the software application. Test case reports are also generated manually.

Manual Testing is one of the most fundamental testing processes as it can find both visible and hidden defects of the software. The difference between expected output and output, given by the software, is defined as a defect. The developer fixed the defects and handed it to the tester for retesting.

Types of Manual Testing

There are various methods used for manual testing. Each technique is used according to its testing criteria.

- White Box Testing
- Black Box Testing
- Gray Box Testing

1. White-box testing:

The white box testing is done by Developer, where they check every line of a code before giving it to the Test Engineer. Since the code is visible for the Developer during the testing, that's why it is also known as White box testing.

2. Black box testing:

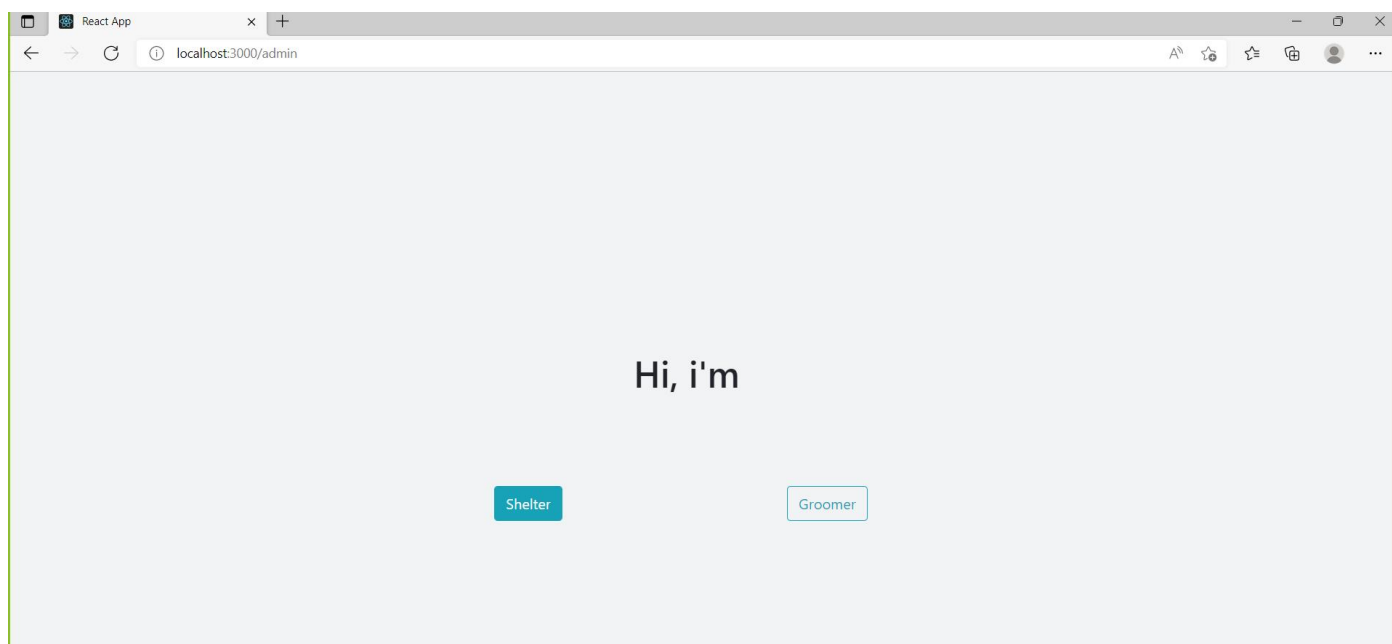
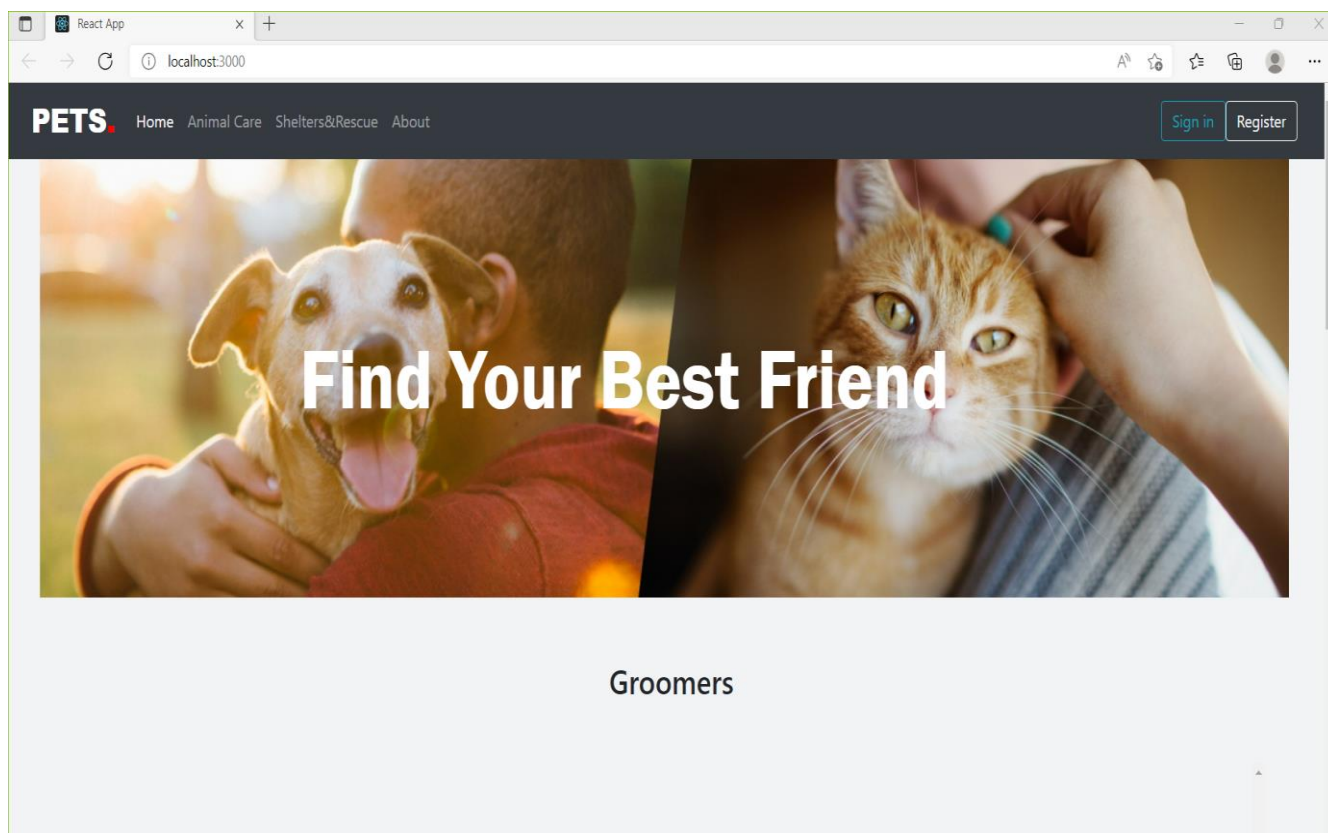
The black box testing is done by the Test Engineer, where they can check the functionality of an application or the software according to the customer /client's needs. In this, the code is not visible while performing the testing; that's why it is known as black-box testing.

3. Gray Box testing:

Gray box testing is a combination of white box and Black box testing. It can be performed by a person who knew both coding and testing. And if the single person performs white box, as well as black-box testing for the application, is known as Gray box testing.

Chapter 7

Screenshots of Webpages



React App

localhost:3000/groomer

Email address

shindehitesh@gmail.com

Password

.....

☒ Remember me [Forgot password?](#)

[Sign in](#)

Not a member? [Register](#)

or sign up with:

React App

localhost:3000/book-hostel

Find Your Best Friend

April, 2022

Mo	Tu	We	Th	Fr	Sa	Su
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

Clear Today

22-04-2022 11:55 PM

[Book](#)

Chapter 8

CONCLUSIONS

All pets need some cleaning. People rear dogs and cat for different reasons. Pet dogs and cat need special care. One can only appreciate the dog as a pet if he or she takes good care of it. Pets are friendly. Grooming them may not be a serious problem.

Chapter 9

Future Enhancement

As we are developing a website which offers online booking of pet groomers, online buying of pet food and certified pet hostels, but due to time constraint we are not providing any online payment options/Getways to clients. Therefore as future scope of project one can provide online payment getways. So user/client can make payments online.

Chapter 10

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