Title: "PetOFur"

Project Synopsis

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Content:

1. Abstract:

Pets are a true gift. It only comes to the fortunate. They are the only ones who genuinely care about us. They give us whatever they have without expecting anything in return. A pet is a worthy object of affection. People now treat them like their children. They do a lot of things for them, like dress them up, go on outings with them, and celebrate their birthdays. The fluffy member of the family never gives up trying to assimilate family customs. He always makes an effort to uplift his family and make his parents proud. That little one teaches people how to be devoted, how to cheer us up when we're down, and what loyalty truly is.

In addition, pets can make excellent friends. Man's best companion is often referred to as a dog. The best demonstrators of this are dogs. The finest therapy to improve their friend's mood is them.

Who doesn't enjoy having a cute, fluffy pet that is on par with or even superior to other people?

Adopting pets is something that a lot of people do around the world. Every year, 4.1 million pets are adopted from animal shelters. In terms of adoption rates, dogs unquestionably lead the way. Pet adoption is growing in popularity on a daily basis. Between 2006 and 2014, it climbed by 3 million in this nation.

Having a pet is both a joy and a responsibility. In addition, they require care by being walked, having check-ups, etc. People who work 9 to 6 every day might not always be able to give them the full attention they require.

Our website, "PetOFur," is made specifically for this purpose. This website will assist busy parents in raising their fluffy children. They can reserve a reliable pet sitter, a pet walker, and many more services on this website.

2. Introduction:

Pet is a companion animal that fills our life with eternal love and care. It's a true blessing to have them in one's life. That tiny energy has a lot of power to boost one's not only mood but also day-to-day life. They are the only ones who love us without any condition. They offer us anything they have without asking anything from us. Pet is something that deserves to be loved. He always tries his best to make his parents feel proud and to make a lively ambiance. That tiny one teaches people how to be faithful and what loyalty really is, how they cheer us up when we are sad, and how dedicatedly they work for our happiness and safety.

Who doesn't like an adorable, fluffy companion who is no less than a human being or maybe better than them?

Pets can be very good companions. Even dogs are called man's best friend. Dogs are good at proving this right. They are the best therapy to uplift their friend's mood.

A wide number of people throughout the world are adopting pets. Approximately 4.1 million animals are adopted each year from animal shelters. Undoubtedly dogs stand fast when it comes to the number of adoptions. In India, the number is 60,00,000 pets each year. The rate of adopting pet animals is increasing day by day. Having a pet is both a pleasure and a task. In this country, it increased by 3 million from 2006 to 2014.

Having a pet is both a pleasure and a task. They also need to be taken care of by taking them for walks, getting check-ups, etc. People working from 9 to 6 may not be able to always pay attention to them with the attention they deserve.

Animals always want to be around people because they want to be loved and taken care of. They don't require a pricey home, a designer pair of shoes, or an iPod. They only require care and affection.

However, not everyone finds it simple to spend all of their time with their dogs. Schedules for some people may be packed. Even if they wanted to, they couldn't stay with their animals all day.

Pets need to be walked and seen by the veterinarian for check-ups.

But it might be challenging for a busy owner to devote enough time to their pet(s).

With the development of technology, the internet is growing in popularity. a website has evolved into crucial component. We made the decision to build a website after thinking about all the busy pet owners and those small fluffy pals. PetOFur, our website, will assist pet owners who are too busy to care for their animals. They can reserve a dependable pet sitter, a pet walker, and many more services on this website.

On days when their owners are busy, our website aims to provide the small friends the attention and care they need.

3. Project Overview:

The website PetOFur was created to provide pet owners with a platform to find at-home pet care services. The website was built especially with busy pet owners in mind. The website provides facilities like booking a pet walker, a pet sitter, a pet trainer, and at-home pet grooming. The website includes a booking system that enables users to schedule appointments with service providers. Users can also check nearby clinics and nearby pet crèche from the website itself.

People can also register as a pet caregiver if they fulfil the criteria, like having experience in pet walking or having a pet training certification.

4. User Requirements:

Our primary target users are busy pet owners who can't devote enough time to their pets during the workday and need someone to look after their pets, be it for walking or pet sitting.

Process of booking a service:

A person will first access the website, browse the services, and then select the one they wish to utilise. Next, they will be instructed to submit both their personal information and information about their pet. then they will be told to pick a time and date. then customers may select a service provider who is available on that day and hour. Finally, the payment method will be requested. The user has two payment options: using a bank card or paying after the service.

The service provider will keep the pet owner informed about their pets by giving videos, images, or making video calls in order to ensure their safety throughout any service.

Process of becoming a pet carer:

Anyone interested in working as a pet care service provider can fill out an online form that is available on the website. They must possess a certificate in pet training (if applying to be a pet trainer) or year(s) of relevant work experience. They must present any form of official identification proof to prove their identity.

Once a client has received service, the client has the option to give feedback so that future clients can choose that service provider based on the feedback.

5. Design and Functionality:

The website has a modern, clean design with a focus on usability and user experience. The home page is the landing page, which will feature a navigation bar, feature content, and link to other pages.

Website Architecture:

1. Presentation Layer:

The presentation layer is the user interface layer that users interact with when they visit the website. It includes the following components:

- Home page: this is the first page that users see when they visit the website. It includes a navigation bar, featured content and links to other pages.
- About us page: This page provides information about the mission of the website.
- Service page: this page provides information about the services offered which further includes:
  - Pet Details page: This page collects pet information from pet owners like type of pet, breed, etc
  - Personal Details page: This page collects details about the pet owner such as name, phone number, address, etc.
  - Selection of date and time: As the name suggests, this page collects the date and time for when you want to book the service.

- Contact Us page: This page includes a contact form where users can write their message to the service provider.

2. Application Layer:

The application layer is the logic layer that processes user requests and communicates with the database. It includes the following component:

- Booking module: this module allows users to book services through the website.
- Payment module: this module handles payment processing for the website.

3. Database layer:

The database layer stores the website's data. It includes the following components:

- Service provider database: This database stores user information about service providers, including their name, availability, pricing, etc.
- Booking database: This database stores information about user bookings, including the pet details, users' information, date, and time.

4. infrastructure layer:

The infrastructure layer provides the necessary infrastructure for the website to run. It includes the following components:

- Web Server: This is the server that hosts the website.
- Application Server: This server runs the website's application logic.
- Database server: This service hosts the website's database.

Overall, this website architecture is designed to provide users with a user-friendly and efficient platform for finding and booking pet care services. The presentation layer provides a clean and intuitive user interface, while the application layer processes user requests and communicates

with the database. The database layer stores the website's data, and the infrastructure layer provides the necessary infrastructure for the website to run.
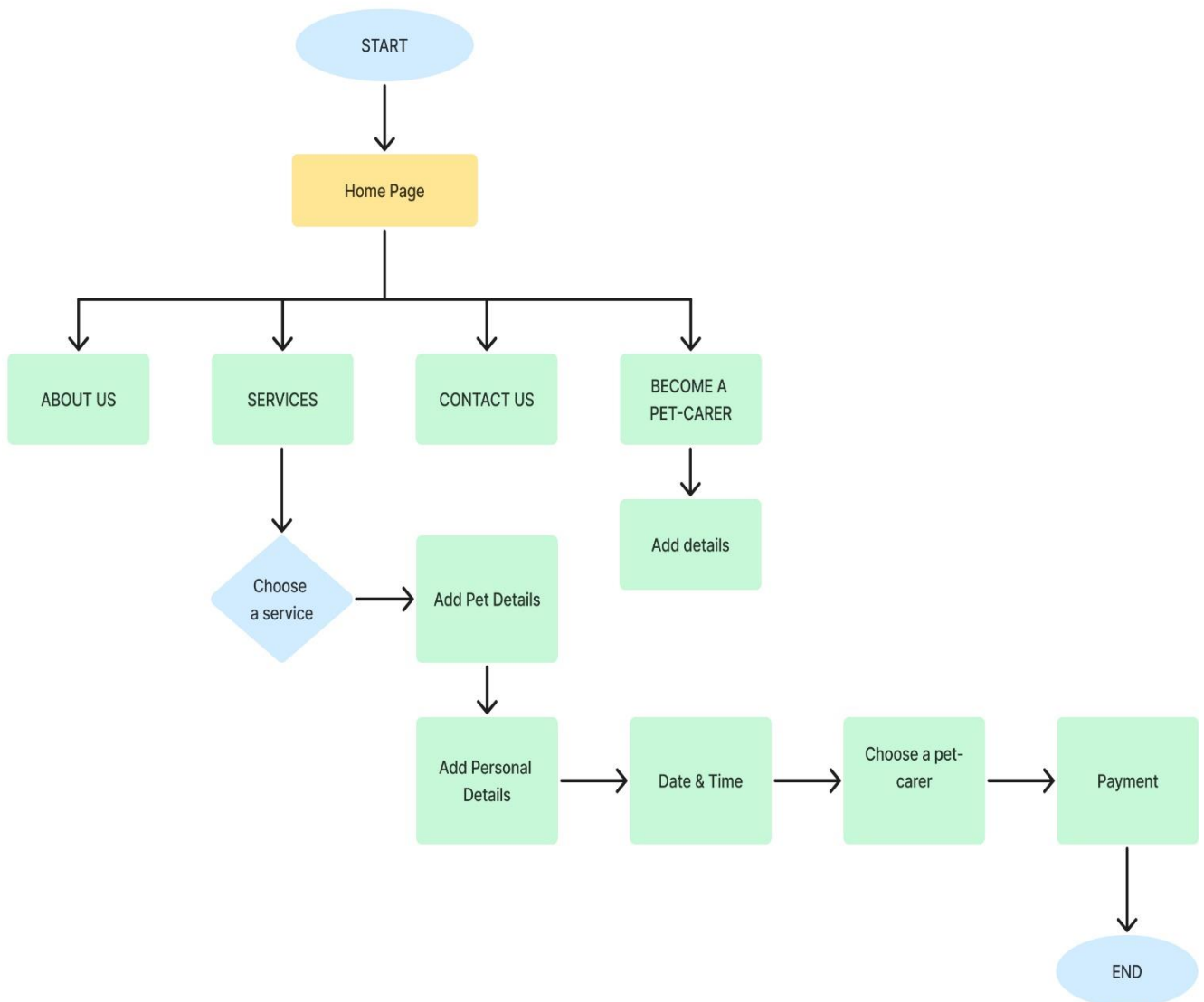
Website Flow Diagram

ERD:
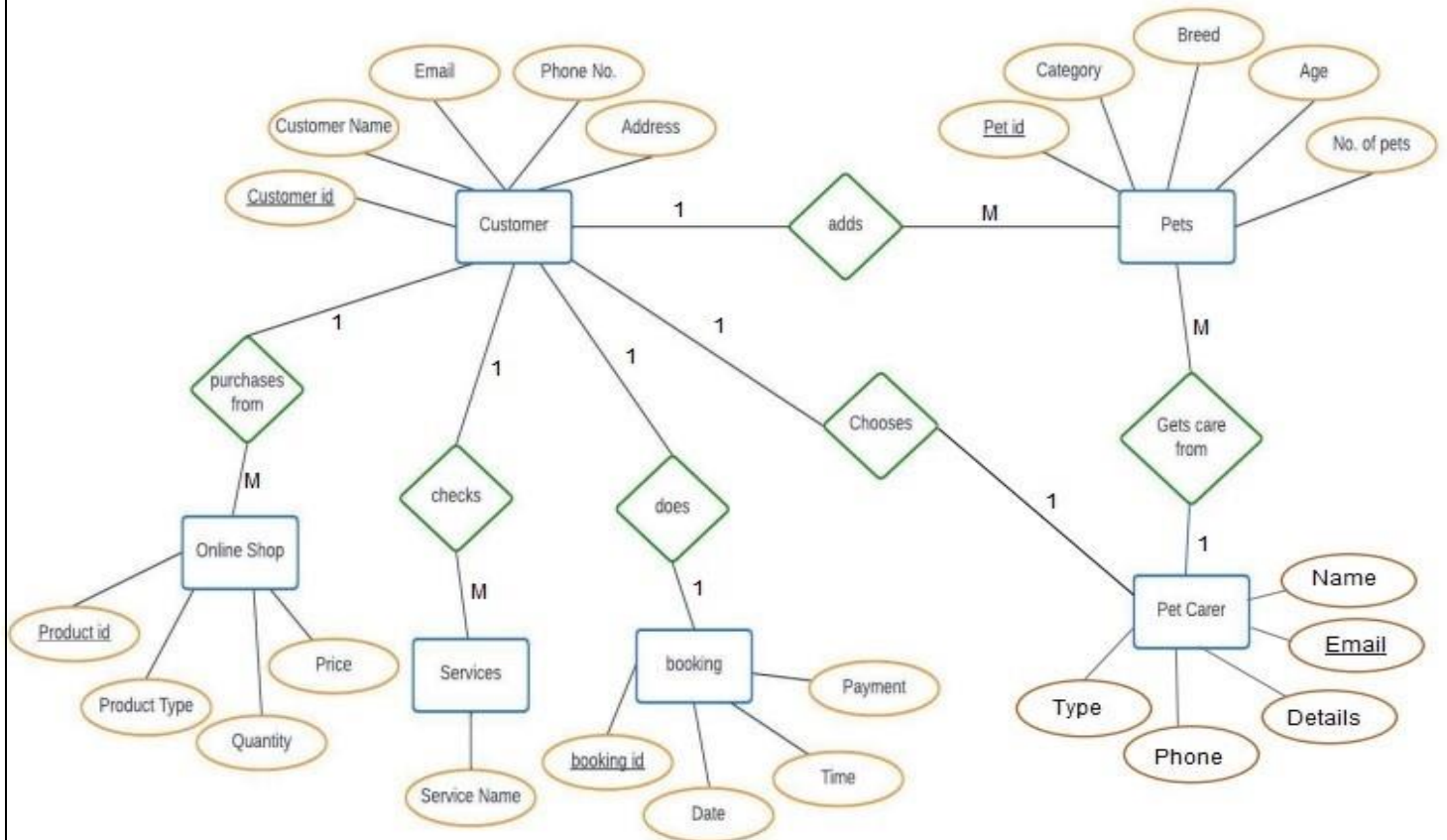
Explanation of the ERD:

The ERD shows six entities: Customer, Pets, Service, Booking, Pet Carer and Online Shop.

The customer entity contains information about the pet owners. Customer_id is the primary key(PK), which uniquely identifies each owner. Other attributes name, email, phone no. and address.

The pets entity contains information about the pets of each owner. It has a primary key called pet_id, which uniquely identifies each pet. The entity also has a foreign key(FK) called customer_id, which links each pet to its owner in the Customer entity. Other attributes include pet category, age, breed, and no._of_pets.

The service entity contains information about the different pet services offered by the website. Attribute include service name.

The booking entity contains information about the bookings made by the pet owners for their pets. It has the primary key called booking _id, which uniquely identifies each booking. The entity also has foreign keys called pet_id, service_name, and customer_id, which link each booking to the pet, service, and customer entities, respectively. Other attributes include date, time.

The pet carer entity contains the information about the pet care providers. Their phone no. is the primary key which uiquely identifies each individual. Other attributes include name, email, details, type.
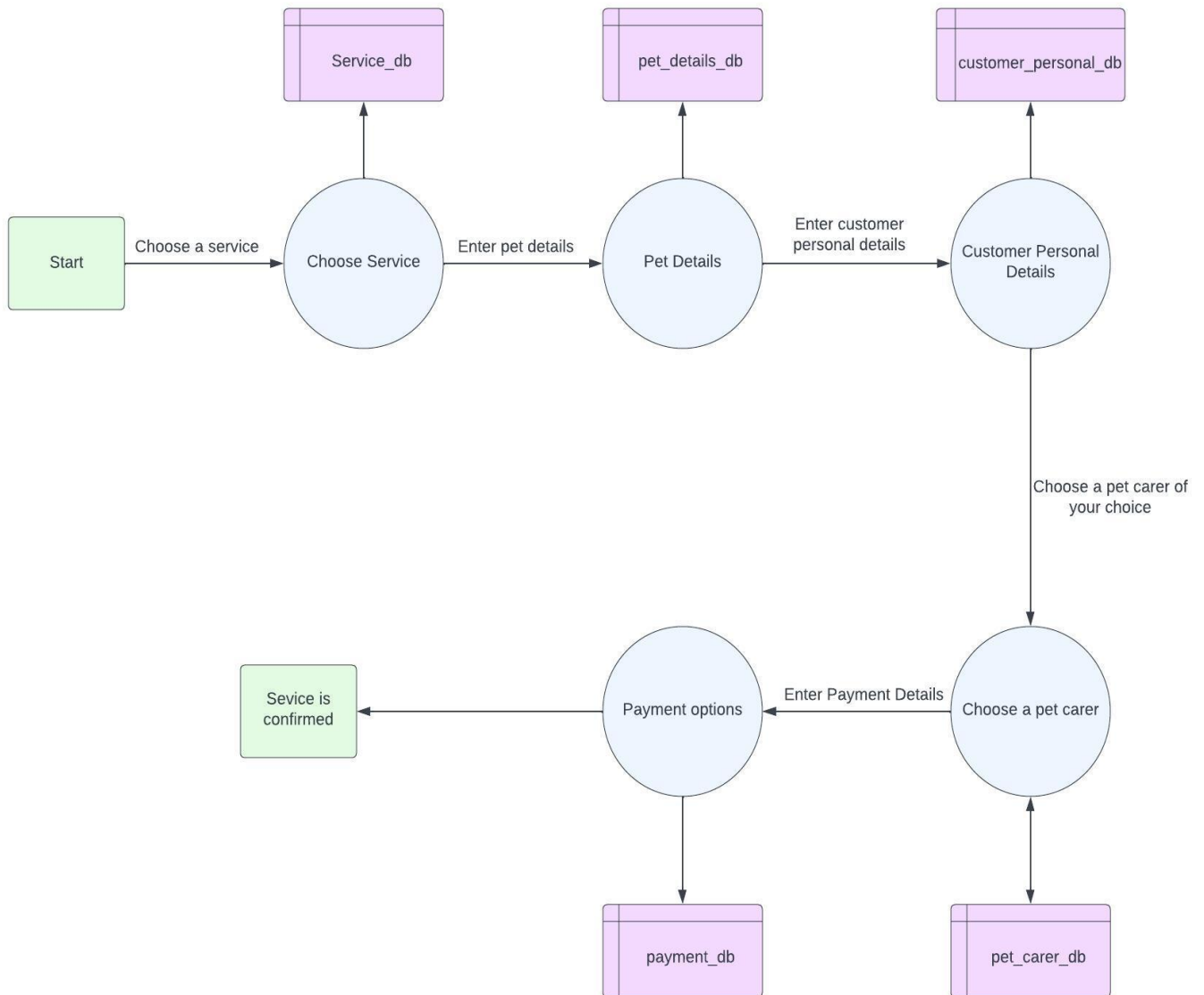
Data Flow Diagram
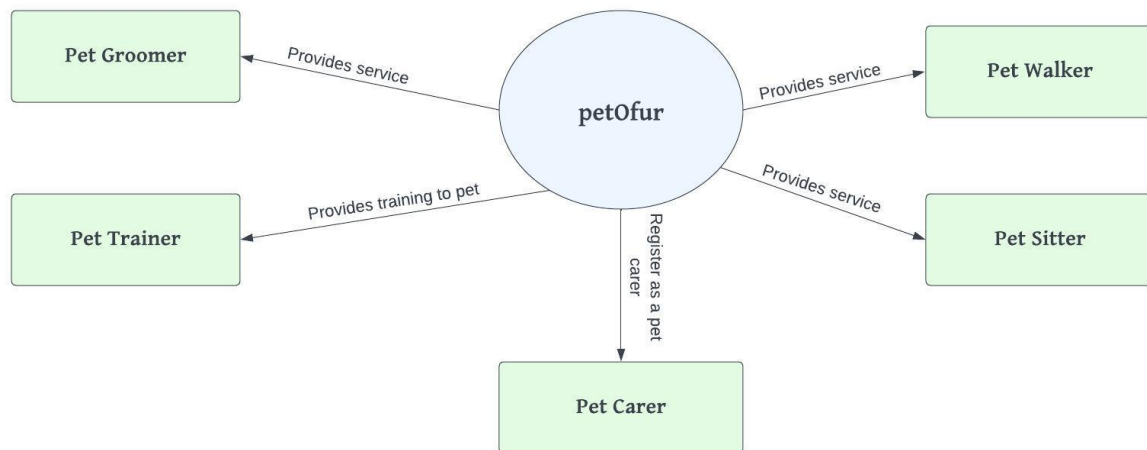
Level 0 DFD

Explanation of level 0 DFD:

This DFD shows the process,petOfur and there are five external entities that are Pet groomer, Pet walker, Pet trainer, Pet sitter, and Pet carer.

Here Pet walker, Pet Sitter, and Pet groomer provide services. Pet trainer provides training to pet. Pet carers will register themselves as Pet carer.

Level 1 DFD

Explanation of level 1 DFD:

Here the level-0 DFD is expanded. In level 1 DFD has Five processes, that are Choose service, Pet details, Customer personal details, Choose a pet carer and Payment option. There are five databases service_db,pet_details_db,customer_personal_db,pet_carer_db,Pyment_db.

First of all, the customer will choose a service and the chosen service will be stored in the service_db and data will be flowed from the process, choose service to database service_db. After that the customer will go to the next process which is pet details, here customer will enter the pet details and the data will be sent to the pet_details_db. The next process is customer personal details, the customer needs to enter his/her details here and the data will be stored in customer_details_db. After that customers can choose a carer of their choice with respect to the chosen service. The database will show the customer the list of the carer of the chosen service. And then the chosen carer will be stored in the same database. Then the

customer needs to go to the next process which is the payment option. The customer needs to enter details and do the payment. The details will be stored in Payment_db. After this process the confirmation will be sent to the customer's email.

6. Technical Requirements:

HTML, CSS, and JavaScript are used to create the website. The backend database will be MySQL. The website will be hosted on a cloud-based server.

- HTML: HTML is the standard markup language for web pages. It is used to structure a web page and its content. It describes the structure of a webpage. It tells the browser how to display the content.
- CSS: CSS stands for Cascading Style Sheets. CSS describes how HTML elements are to be displayed. CSS saves a lot of work. It can control the layout of multiple web pages all at once. It plays a huge role in developing a website.
- My SQL: MySQL is a widely used relational database management system (RDBMS). MySQL is free and open-source. MySQL is ideal for both small and large applications.

7. Testing and Deployment:

Testing and deployment are critical phases in the web development process that ensure that the website is functional, stable, and meets user needs. Testing involves verifying that all features and functionalities of the website are working correctly, identifying and fixing bugs and errors, and validating that the website meets user requirements. Testing includes different types of testing, including functional testing, performance testing, usability testing, and security testing. The deployment process involves making the website live and accessible to users. During deployment, developers ensure that the website is compatible with different web browsers, devices, and screen sizes. They also ensure that all necessary files and assets are uploaded to the server and that the website is configured correctly for its intended environment.

8. Maintenance and Support:

Maintaining and supporting a website is essential to ensuring its smooth and uninterrupted operation. The website will be maintained on a regular basis and updated. Regular maintenance ensures that the website is up-to-date, and functions optimally, improving the user experience and reducing the risk of downtime or technical issues. Users' feedback and suggestions will also be taken into consideration to improve the website's usability and functionality. User feedback and suggestions are critical to the ongoing success and improvement of a website. User feedback helps identify areas of the website that are working well and areas that need improvement. Feedback can come in various forms, including surveys, user testing, and customer support inquiries.

9. Conclusion:

In conclusion, PetOFur is an online pet care service booking web development project that aims to help pet owners who require dependable, practical, and trustworthy services for their animals. A pet care service website may assist pet owners in meeting their pets' requirements while also giving them peace of mind by offering a user-friendly interface, simple booking and payment choices, and access to reliable service providers. To offer the best possible user experience and satisfaction, the website's features and capabilities, including booking, payment, and user assistance, must be carefully planned, often tested, and maintained. Overall, a pet care service website has the potential to enhance the lives of pets and their owners, and it is a valuable investment for anyone looking to provide high-quality pet care services.