

# PawsForU: A Web Application for Pet Care and Adoption

Welcome to the PawsForU presentation! This presentation will explore the development of a comprehensive web application designed to provide services and information related to pet care and adoption.



## Team Members

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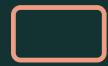
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# Project Overview

PawsForU is a web application designed to provide services and information related to pet care and adoption. The project integrates client-side and server-side technologies to deliver a seamless user experience.

# Technology Used



Frontend

HTML, CSS, React, Bootstrap



Backend

Node.JS, Express.JS



Database

MongoDB

# Architecture

The application has the following architecture:



## Server-side

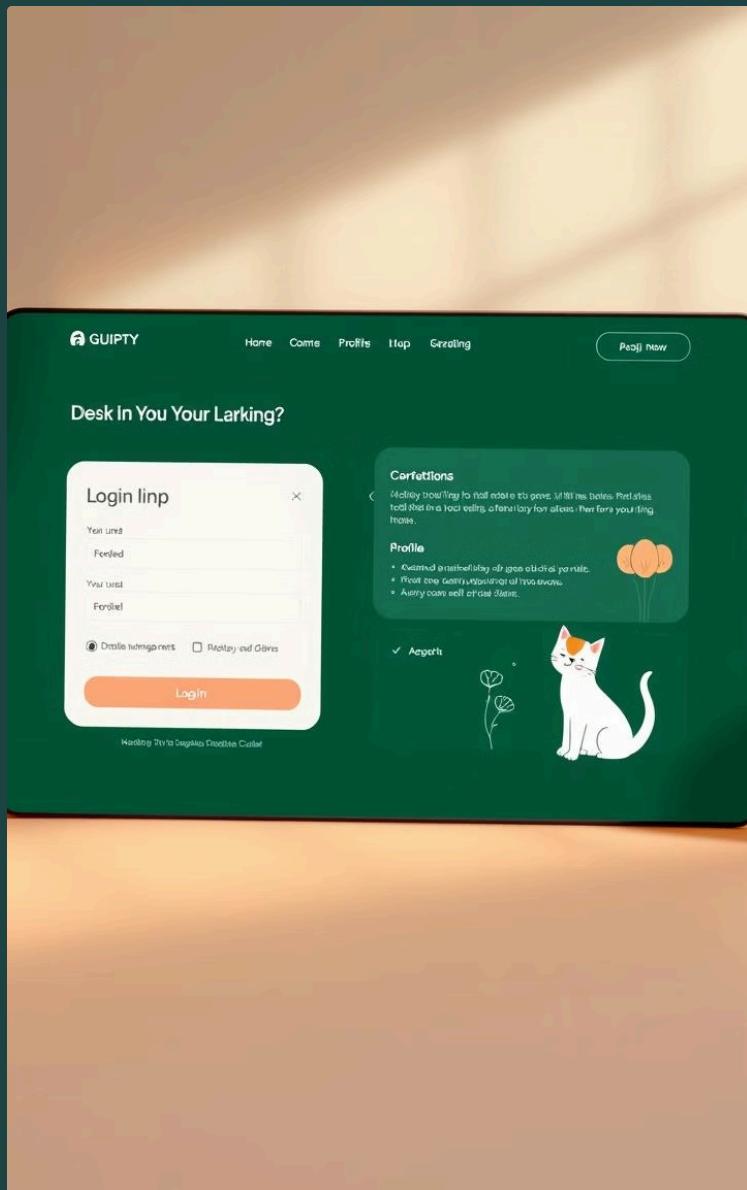
- Middleware: Handles authentication and request processing.
- Controllers: Implements business logic.
- Routes: Defines API endpoints.
- Models: Manages database schemas.



## Client-side

- React components for dynamic UI.
- Public folder for static assets.

# Key Features



## User Authentication

Secure login with JWT.

## Interactive UI

Built with React and Bootstrap.

## RESTful APIs

For seamless communication between client and server.

## Image and Static File Management

Efficient storage and retrieval.

# Admin Flow

1

## Admin Login

Admins log in via a secure portal.  
Dashboard access as the landing page  
upon successful authentication.

2

## Pet and Service Management

Admins can add, edit, or delete pet  
profiles and service offerings (boarding,  
grooming, etc.).

3

## User Management

View and manage registered users.



# User Flow

## User Registration

1

Secure email-based registration.

# Challenges and Learnings

## Challenges

- Integrating front-end and back-end efficiently.
- Managing state and ensuring responsiveness across devices.

## Learnings

- Improved understanding of react application development.
- Enhanced skills in React, Node.js, and MongoDB.

# Summary

PawsforU is a comprehensive full-stack web application designed for pet care and adoption services. It integrates:

## Frontend

React for a dynamic and responsive user interface.

## Database

MongoDB for data storage and management.

Features include user authentication, interactive UI, RESTful API integration, and static file management.

## Backend

Node.js with Express for efficient server-side operations.

