UE19CS204 – Web Technologies
Mini Project
Project Title - PAWsibilities

Abstract

The focus of our application is to facilitate the exchange of pe pet lovers. It is a general-purpose application that can be used for donating, adopting and buying pets. It will help in connecting need a pet to those who want to get a responsible owner for t

Our web app contains a landing page, a dashboard and pages donate, and buy pets. It also contains the login and signup pag track of the user. The login page will allow the user to enter their credentials and they will be redirected to the dashboard. On d they can see their pets put for donation and can remove the sa pet has already been adopted. The page also contains a where user can give their feedback regarding the websit page contains a form to collect user details and create him.

The page to donate a pet contains a form where user can put the det
pet he wants to donate and the type of owner he wants for hi
submission of the form, the pet will be added to the adopt section wh
can request to adopt the pet.

The page to adopt a pet contains the details of all the pets put for do
user can contact the owner of the pet if he is interested in adopting l
the pet is adopted, the owner can remove it from the list.

The buy page contains the details of nearby pet shops present in the
with their contact number, closing and opening time, etc.

All the pages in our web app are fully responsive and can be rendered
any screen size.

All the components used in the app are fully scalable.

Authorisation is present to validate the credentials on the login
details entered by the user gets stored in the database after hashing the
password.

Technologies Used

1. Node.js/Express.js FrameWork for backend server side operations

2. MongoDB for DataBase Storage

3. React js , HTML 5 , CSS 3 , JSX, Bootstrap, JavaScript for frontend rendering

MERN Stack: MERN Stack is a Javascript Stack that is used for easier and faster deployment of full-stack web applications. MERN Stack comprises of 4 technologie namely: MongoDB, Express, React and Node.js. It is designed to make the develo process smoother and easier. Each of these 4 powerful technologies provides an end-to-end framework for the developers to work in and each of these technologi a big part in the development of web applications.

MODULES USED :

For Backend Server Side :

1. `bcryptjs` : **To Hash the Password to be stored in the DataBase**
2. `concurrently` : **To run/Start both frontend and backend in the same Terminal.**
3. `cors` : **Allows restricted resources on a web page to be requested another domain outside the domain from which the first resou was served.**
4. `dotenv` : **that loads environment variables from a .env file into proces**
5. `express` : **Express is a minimal and flexible Node.js web application framework that provides a robust set of features for web and mobile applications.**
6. `jsonwebtoken` : **To implement JSON web tokens , Returns the JsonWebTok string.**
7. `mongoose` : **Mongoose is an Object Data Modeling (ODM) library for MongoDB and Node. js**
8. `nodemon` : **Automatically restarts the server if any changes are made .**

For Frontend rendering :

1. `react-bootstrap` : **Provides already built commonly used react Components**
2. `bootstrap` : **open-source CSS framework directed at responsive, mob**
   front-end web development.
3. `react-swipeable-views` : **react component for auto swipeable views**
4. `@material-ui/core` : **A popular React UI framework**
5. `@material-ui/icons` : **Provides popular icons which can be used just by importi**
6. `react-router-dom` : **client-side routing, allows us to build a single-page web application with navigation without the page refreshing user navigates**
7. `axios` : **Promise based HTTP client for the browser and node.js**
8. `popper.js` : **Popper. js is a positioning engine, its purpose is to calcu position of an element to make it possible to position it given reference element.**

Member Contributions

- Abhishek Aditya BS : Sign up page,login page and authentication system,Integration of Frontend and Backend and Database operations
- Aniket Aayush : Homepage,Dashboard,Buy page, Donate page,Adopt page
- A Sai Chaitanya : Backend routes (Handling HTTP requests from the frontend)