

B. Component Descriptions

App Component

The App component is the main part of the application. It controls the pet list using React state. It also connects all other components together. When a pet is added or deleted, this component updates the state and refreshes the page automatically.

InputForm Component

The InputForm component allows the user to add a new pet. The user enters the pet's information and uploads a photo from their computer. This component collects the data and sends it to the App component when the form is submitted.

PetList Component

The PetList component shows all pets that are available for adoption. It receives the pet list from the App component and displays each pet using the PetCard component. If there are no pets, it shows a message to the user.

PetCard Component

The PetCard component displays one pet's information such as name, age, type, description, and photo. It also includes a delete button that allows the user to remove the pet from the list.

C. React Front-End and Back-End Interaction

This project uses React to build a dynamic and interactive front-end application. React components are used to separate the application into smaller parts, which makes the code easier to manage. State is handled using the useState hook, allowing the page to update automatically when data changes. Data flows from the App component to child components using props. When the user adds a pet, the InputForm sends the data to the App component, and React updates the PetList and PetCard components without reloading the page. Although there is no back end in this project, it is designed so a back end can be added later. A server and database could store pet information, and React could communicate with it using API requests such as fetch or axios.

D. Project Experience

This project helped me understand how React components work together and how state and props are used. One challenge I faced was fixing errors caused by incorrect imports and exports, which sometimes resulted in a blank page. Another challenge was handling image uploads from the user's computer. I learned how to resize images using JavaScript so they fit properly on the page. Overall, this project improved my understanding of React and increased my confidence in building front-end applications.