



Web App Design with React Final Project

Points possible: 70

Category	Criteria	% of Grade
Functionality	Does the code work?	25
Organization	Is the code clean and organized? Proper use of white space, syntax, and consistency are utilized. Names and comments are concise and clear.	25
Creativity	Student solved the problems presented in the assignment using creativity and out of the box thinking.	25
Completeness	All requirements of the assignment are complete.	25

Instructions: In VS Code, or an IDE of your choice, write the code that accomplishes the objectives listed below. Ensure that the code compiles and runs as directed. Take screenshots of the code and of the running program (make sure to get screenshots of all required functionality) and paste them in this document where instructed below. Create a new repository on GitHub for this week's assignments and push this document, with your JavaScript project code, to the repository. Add the URL for this week's repository to this document where instructed and submit this document to your instructor when complete.

Coding Steps:

1. Using an online API of your choice (or if no API can be found, using an array for in-memory storage is okay as well), create a React project of your choice. You will be working on this for the next three weeks.
2. Project must meet the following criteria:
 - a. Use React Router and have at least 3 pages
 - b. Use React Bootstrap or an alternative styling library
 - c. Contain at least 10 components
 - d. Allow for all CRUD operations



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Screenshots of Code:

app.js

```
File Edit Selection View Go Run Terminal Help
App.js - finalproj - Visual Studio Code

EXPLORER
src > JS App.js > ...
  X JS App.js src
  FINALPROJ
  > node_modules
  > public
  > src
    > components
      JS AddReview.js
      JS NavBar.js
      JS Review.js
      JS ReviewForm.js
      JS ReviewsList.js
    > hooks
      JS useLocalStorage.js
    > images
  > pages
    JS About.js
    JS Error.js
    JS Home.js
    JS Pricing.js
    JS Reviews.js
  # App.css
  JS App.js
  JS AppTest.js
  # Home.css
  # index.css
  JS index.js
  logo.svg
  > OUTLINE

JS App.js
1 import {
2   BrowserRouter as Router,
3   Routes,
4   Route,
5 } from 'react-router-dom';
6
7 import Home from './pages/Home';
8 import About from './pages/About';
9 import Reviews from './pages/Reviews';
10 import Pricing from './pages/Pricing';
11 import Error from './pages/Error';
12 import NavBar from './components/NavBar';
13
14 function App() {
15
16   return (
17     <Router>
18       <NavBar />
19
20       <Routes>
21         <Route path="/" element={<Home/>} />
22         <Route path="/about" element={<About/>} />
23         <Route path="/pricing" element={<Pricing/>} />
24         <Route path="/reviews" element={<Reviews/>} />
25         <Route path="*" element={<Error/>} />
26       </Routes>
27     </Router>
28   );
29 }
30
31 export default App;
```

Home page

```
File Edit Selection View Go Run Terminal Help
Home.js - finalproj - Visual Studio Code

EXPLORER
src > pages > JS Home.js > ...
  X JS Home.js src/pages
  FINALPROJ
  > node_modules
  > public
  > src
    > components
      JS AddReview.js
      JS NavBar.js
      JS Review.js
      JS ReviewForm.js
      JS ReviewsList.js
    > hooks
      JS useLocalStorage.js
    > images

JS Home.js
1 import React from "react";
2 import Fish from '../images/fish.jpg';
3 import img from '../Home.css';
4
5 function Home() {
6   return (
7     <>
8       <h1>BettaDirect</h1>
9       <p>The best place to get your Betta fish!</p>
10      <img src={Fish} />
11    </>
12  );
13 }
14
15
```



PROMINEO TECH

About page

```
File Edit Selection View Go Run Terminal Help About.js - finalproj - Visual Studio Code
EXPLORER src > pages > JS About.js > ...
  JS About.js src/pages
  FINALP...
  > node_modules
  > public
  > src
    > components
      JS AddReview.js
      JS NavBar.js
      JS Review.js
      JS ReviewForm.js
      JS ReviewList.js
    > hooks
      JS useLocalStorage.js
    > images
    > pages
      JS About.js
      JS Error.js
      JS Home.js
      JS Pricing.js
      JS Reviews.js
    # App.css
    JS App.js
    JS App.test.js

1 import React from "react";
2 import {Container, Card} from 'react-bootstrap';
3
4 function About() {
5   return (
6     <Container className="p-4"><Card>
7       <Card.Body>
8         <Card.Title>About BettaDirect</Card.Title>
9         <Card.Subtitle className="mb-2 text-muted">
10           Serving all your Betta Fish needs since 1990!
11         </Card.Subtitle>
12         <Card.Text>
13           BettaDirect is your one-stop shop for everything Betta! We started as a small
14           family store in Keene, NH and have grown into a national online business! Our company
15           prides itself on our extensive knowledge of Betta Fish and the quality, health and
16           beauty of each fish we sell. Our customers keep coming back year after year, fish after
17           fish! Don't believe us? Head over to our 'Reviews' tab and see what they think for yourself!
18         </Card.Text>
19       </Card.Body>
20     </Card>
21   </Container>
22 )
23 }
24
25 export default About;
```



PROMINEO TECH

Pricing page

```
1 import React from "react";
2 import Table from 'react-bootstrap/Table';
3
4 function Pricing() {
5   return (
6     <div>
7       <br />
8       <h4>Betta Fish Pricing Information</h4>
9       <br />
10      <Table striped bordered hover>
11        <thead>
12          <tr>
13            <th>Type</th>
14            <th>Description</th>
15            <th>Price</th>
16          </tr>
17        </thead>
18        <tbody>
19          <tr>
20            <td>Veiltail</td>
21            <td>Long, flowing tail that swoops downward. Comes in many color variations.</td>
22            <td>$3.99</td>
23          </tr>
24          <tr>
25            <td>Crowntail</td>
26            <td>Distinctive fringed fins that flow as they swim. Can be aggressive.</td>
27            <td>$4.50</td>
28          </tr>
29          <tr>
30            <td>Butterfly</td>
31            <td>Multi-colored bodies and can have a few different tail types.</td>
32            <td>$12.99</td>
33          </tr>
34          <tr>
35            <td>Halfmoon</td>
36            <td>Tail looks like a half-moon or semicircle and flares to 180 degrees. Aka double tail bettas.</td>
37            <td>$26.99</td>
38          </tr>
39          <tr>
40            <td>Elephant Ear</td>
41            <td>Enormous fins and tail that resemble the ears of an elephant.</td>
42            <td>$14.99</td>
43          </tr>
44          <tr>
45            <td>RoseTail</td>
46            <td>Large flowing D-shaped caudal fin.</td>
47            <td>$19.99</td>
48          </tr>
49          <tr>
50            <td>Paradise</td>
51            <td>Usually blue body with yellowish fins. Can sometimes be three colors.</td>
52            <td>$19.99</td>
53          </tr>
54        </tbody>
55      </Table>
56    </div>
57  );
58}
59
60 export default Pricing;
```



PROMINEO TECH

Review page

```
1 import React from "react";
2 import ReviewsList from "../components/ReviewsList";
3 import AddReview from "../components/AddReview";
4 import useLocalStorage from "../hooks/useLocalStorage";
5
6 function Reviews(props) {
7   const [reviews, setReviews] = useLocalStorage('reviews', []);
8
9   return (
10     <>
11     <br />
12     <h4>BetaDirect Customer Reviews</h4>
13     <br />
14     <ReviewsList {...props} reviews={reviews} setReviews={setReviews} />
15     <AddReview {...props} reviews={reviews} setReviews={setReviews} />
16     </>
17   );
18 }
19
20 export default Reviews;
```

Error page

```
1 import React from 'react';
2
3 function Error() {
4   return (
5     <h1>404 page not found</h1>
6   )
7 }
8
9 export default Error;
```

Components:



PROMINEO TECH

The screenshot shows the Visual Studio Code interface with the 'finalproj' project open. The Explorer sidebar on the left shows the file structure, including 'src' > 'components' > 'NavBar.js'. The main editor area displays the code for 'NavBar.js'.

```
1 import React from 'react';
2 import {Link} from 'react-router-dom';
3 import 'bootstrap/dist/css/bootstrap.min.css';
4 // import './App.css';
5 import { Container, Nav, Navbar } from 'react-bootstrap';
6 import Betta from '../images/betta.png';
7
8
9 function NavBar() {
10   return (
11     <Navbar bg="dark" variant="dark">
12       <Container>
13         <Navbar.Brand as={Link} to={'/'}>
14           <img src={Betta} style={{width:40}} />
15           BettaDirect
16         </Navbar.Brand>
17         <Nav className="me-auto">
18           <Nav.Link as={Link} to={'/about'}>About</Nav.Link>
19           <Nav.Link as={Link} to={'/pricing'}>Pricing</Nav.Link>
20           <Nav.Link as={Link} to={'/reviews'}>Reviews</Nav.Link>
21         </Nav>
22       </Container>
23     </Navbar>
24   )
25 }
26
27 export default NavBar;
```



PROMINEO TECH

```
File Edit Selection View Go Run Terminal Help Review.js - finalproj - Visual Studio Code

EXPLORER
  OPEN EDITORS
    JS Review.js src(com...
  FINALP...
  node_modules
  public
  src
    components
      JS AddReview.js
      JS NavBar.js
      JS Review.js
      JS ReviewForm.js
      JS ReviewsList.js
    hooks
      JS useLocalStorage.js
    images
    pages
      JS About.js
      JS Error.js
      JS Home.js
      JS Pricing.js
      JS Reviews.js
      # App.css
      JS App.js
      JS App.test.js
      # Home.css
      # index.css
      JS index.js
      logo.svg
  OUTLINE

src > components > JS Review.js > [0] Review
1  import React from "react";
2  import { Button, Card } from 'react-bootstrap';
3  import { useNavigate } from 'react-router-dom';
4
5  const Review = ({
6    id,
7    reviewname,
8    date,
9    content,
10   rating,
11   numberfish,
12   handleRemoveReview
13 }) => {
14   const history = useNavigate();
15
16   return (
17     <Card style={{width: '400px'}}>
18       <Card.Body>
19         <Card.Title>{reviewname}</Card.Title>
20         <div>
21           <div>Date: {new Date(date).toString()}</div>
22           <div>Review: {content}</div>
23           <div>Rating: {rating}</div>
24           <div>Number of Fish Owned: {numberfish}</div>
25         </div>
26         <Button variant="danger" onClick={() => handleRemoveReview(id)}>Delete</Button>
27       </Card.Body>
28     </Card>
29   );
30 };
31
32 export default Review;
```

```
File Edit Selection View Go Run Terminal Help ReviewForm.js - finalproj - Visual Studio Code

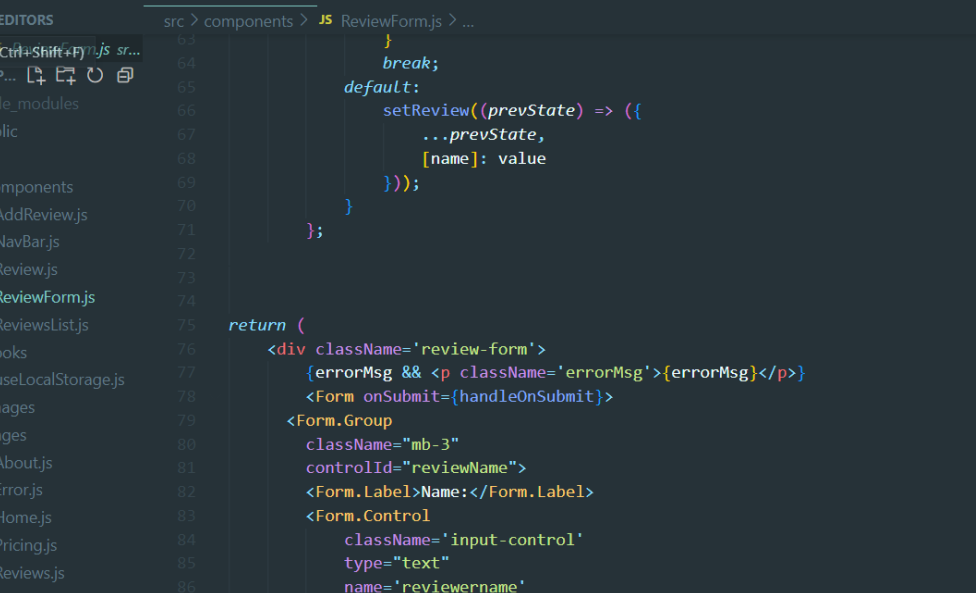
EXPLORER
  OPEN EDITORS
    JS ReviewForm.js sr...
  FINALP...
  node_modules
  public
  src
    components
      JS AddReview.js
      JS NavBar.js
      JS Review.js
      JS ReviewForm.js
      JS ReviewsList.js
    hooks
      JS useLocalStorage.js
    images
    pages
      JS About.js
      JS Error.js
      JS Home.js
      JS Pricing.js
      JS Reviews.js
      # App.css
      JS App.js
      JS App.test.js
      # Home.css
      # index.css

src > components > JS ReviewForm.js > ...
1  import React, { useState } from 'react';
2  import Button from 'react-bootstrap/Button';
3  import Form from 'react-bootstrap/Form';
4  import { v4 as uuidv4 } from 'uuid';
5
6  const ReviewForm = (props) => {
7    const [review, setReview] = useState(() => {
8      return {
9        reviewname: props.review ? props.review.reviewname : '',
10       date: props.review ? props.review.date : '',
11       content: props.review ? props.review.content : '',
12       rating: props.review ? props.review.rating : '',
13       numberfish: props.review ? props.review.numberfish : ''
14     };
15   });
16
17   const [errorMsg, setErrorMsg] = useState('');
18   const { reviewname, content, rating, numberfish } = review;
19
20   const handleOnSubmit = (event) => {
21     event.preventDefault();
22     const values = [reviewname, content, rating, numberfish];
23     let errorMsg = '';
24
25     const allFieldsFilled = values.every((field) => {
26       const value = `${field}`.trim();
27       return value !== '' && value !== '0';
28     });
29   };
30 }
```



```
if (allFieldsFilled) {
  const review = {
    id: uuidv4(),
    reviewername,
    date: new Date(),
    content,
    rating,
    numberfish
  };
  props.handleOnSubmit(review);
} else {
  errorMsg = 'Please fill out all fields.';
  setErrorMsg(errorMsg);
};

const handleInputChange = (event) => {
  const { name, value } = event.target;
  switch (name) {
    case 'rating':
      if (value === '' || parseInt(value) === +value) {
        setReview((prevState) => ({
          ...prevState,
          [name]: value
        }));
      }
      break;
    case 'numberfish':
      if (value === '' || parseInt(value) === +value) {
        setReview((prevState) => ({
          ...prevState,
          [name]: value
        }));
      }
  }
}
```



The screenshot displays the Visual Studio Code interface. The Explorer panel on the left shows the project structure, with the 'src' directory expanded to show 'components'. The 'ReviewForm.js' file is selected. The Editor panel on the right shows the code for 'ReviewForm.js'. The code is a React component that uses the 'useState' hook to manage a 'prevState' variable. It includes a 'setReview' function that updates the state. The component's render method returns a JSX element that includes a form with an error message, a submit button, and a text input field.

```
63 }
64 break;
65 default:
66   setReview((prevState) => ({
67     ...prevState,
68     [name]: value
69   }));
70 }
71 };
72
73 return (
74   <div className='review-form'>
75     {errorMsg && <p className='errorMsg'>{errorMsg}</p>}
76     <Form onSubmit={handleOnSubmit}>
77       <Form.Group
78         className="mb-3"
79         controlId="reviewName">
80         <Form.Label>Name:</Form.Label>
81         <Form.Control
82           className='input-control'
83           type="text"
84           name='reviewername'
85           placeholder="Enter Your Name"
86           onChange={handleInputChange} />
87       </Form.Group>
88     </Form>
89   </div>
90 );
```




PROMINEO TECH

```
File Edit Selection View Go Run Terminal Help ReviewForm.js - finalproj - Visual Studio Code

EXPLORER src > components > JS ReviewForm.js > ...
OPEN EDITORS
  X JS ReviewForm.js sr... 91
  FINALP... 92
  node_modules 93
  public 94
  src 95
  components 96
    JS AddReview.js 97
    JS NavBar.js 98
    JS Review.js 99
    JS ReviewForm.js 100
    JS ReviewsList.js 101
  hooks 102
    JS useLocalStorage.js 103
  images 104
  pages 105
    JS About.js 106
    JS Error.js 107
    JS Home.js 108
    JS Pricing.js 109
    JS Reviews.js 110
  # App.css 111
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  # Home.css 1393
  # index.css 1394
  JS index.js 1395
  logo.svg 1396
  # App.css 1397
  JS App
```



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The image displays two screenshots of the Visual Studio Code editor, showing the implementation of a review system using React and Redux.

Top Screenshot: ReviewsList.js

The file explorer on the left shows the project structure, with the current file being `ReviewsList.js` located in the `src > components` directory. The code in the editor is as follows:

```
1 import React from "react";
2 import _ from 'lodash';
3 import Review from "../Review";
4
5
6 const ReviewsList = ({ reviews, setReviews }) => {
7
8   const handleRemoveReview = (id) => {
9     setReviews(reviews.filter((review) => review.id !== id));
10  };
11
12   return (
13     <React.Fragment>
14       <div className="review-list">
15         {!_.isEmpty(reviews) ? (
16           reviews.map((review) => (
17             <Review key={review.id} {...review} handleRemoveReview={handleRemoveReview} />
18           ))
19         ) : (
20           <p>No reviews yet.</p>
21         )}
22       </div>
23     </React.Fragment>
24   );
25 };
26
27 export default ReviewsList;
```

Bottom Screenshot: AddReview.js

The file explorer on the left shows the project structure, with the current file being `AddReview.js` located in the `src > components` directory. The code in the editor is as follows:

```
1 import React from 'react';
2 import ReviewForm from '../ReviewForm';
3
4 const AddReview = ({ history, reviews, setReviews }) => {
5   const handleOnSubmit = (review) => {
6     setReviews([review, ...reviews]);
7     history.push('/');
8   };
9
10   return (
11     <React.Fragment>
12       <ReviewForm handleOnSubmit={handleOnSubmit} />
13     </React.Fragment>
14   );
15 };
16
17 export default AddReview;
```

Hooks



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```
File Edit Selection View Go Run Terminal Help useLocalStorage.js - finalproj - Visual Studio Code

EXPLORER
  OPEN EDITORS
  FINALP...
  node_modules
  public
  src
    components
      AddReview.js
      NavBar.js
      Review.js
      ReviewForm.js
      ReviewsList.js
    hooks
      useLocalStorage.js
    images
    pages
      About.js
      Error.js
      Home.js
      Pricing.js
      Reviews.js

src > hooks > JS useLocalStorage.js > [0] default
1 import { useState, useEffect } from 'react';
2
3 const useLocalStorage = (key, initialValue) => {
4   const [value, setValue] = useState(() => {
5     try {
6       const localValue = window.localStorage.getItem(key);
7       return localValue ? JSON.parse(localValue) : initialValue;
8     } catch (error) {
9       return initialValue;
10    }
11  });
12
13   useEffect(() => {
14     window.localStorage.setItem(key, JSON.stringify(value));
15   }, [key, value]);
16
17   return [value, setValue];
18 };
19
20 export default useLocalStorage;
```

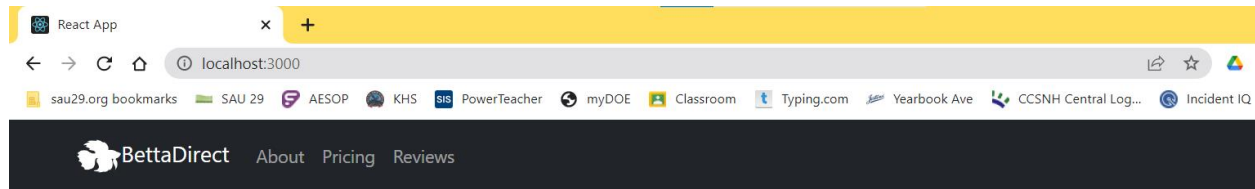
Index.js

```
JS index.js X
src > JS index.js > ...
1 import React from 'react';
2 import ReactDOM from 'react-dom/client';
3 import './index.css';
4 import App from './App';
5 import reportWebVitals from './reportWebVitals';
6 import './App.css';
7
8 const root = ReactDOM.createRoot(document.getElementById('root'));
9 root.render(
10   <React.StrictMode>
11     <App />
12   </React.StrictMode>
13 );
14
15 // If you want to start measuring performance in your app, pass a function
16 // to log results (for example: reportWebVitals(console.log))
17 // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
18 reportWebVitals();
19
```



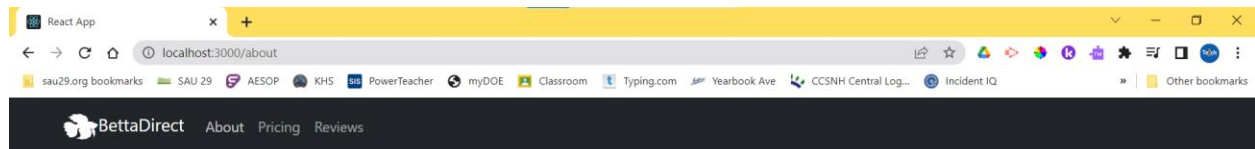
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Screenshots of Running Application:



BettaDirect

The best place to get your Betta fish!



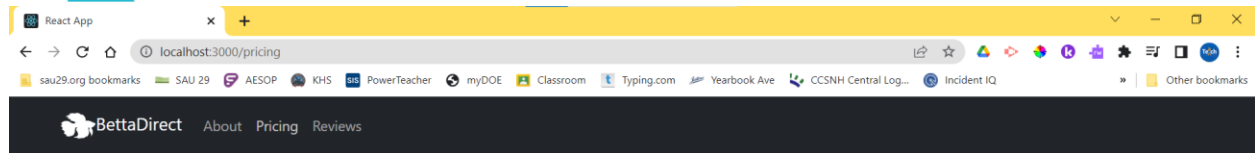
About BettaDirect

Serving all your Betta Fish needs since 1990!

BettaDirect is your one-stop shop for everything Betta! We started as a small family store in Keene, NH and have grown into a national online business! Our company prides itself on our extensive knowledge of Betta Fish and the quality, health and beauty of each fish we sell. Our customers keep coming back year after year, fish after fish! Don't believe us? Head over to our 'Reviews' tab and see what they think for yourself!



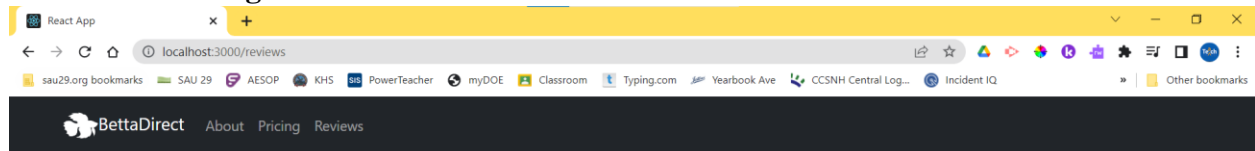
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Betta Fish Pricing Information

Type	Description	Price
Veiltail	Long, flowing tail that swoops downward. Come s in many color variations.	\$3.99
Crowntail	Distinctive fringed fins that flow as they swim. Can be aggressive.	\$4.50
Butterfly	Multi-colored bodies and can have a few different tail types.	\$12.99
Halfmoon	Tail looks like a half-moon or semicircle and flares to 180 degrees. Aka double tail bettas.	\$26.99
Elephant Ear	Enormous fins and tail that resemble the ears of an elephant.	\$14.99
RoseTail	Large flowing D-shaped caudal fin.	\$19.99
Paradise	Usually blue body with yellowish fins. Can sometimes be three colors.	\$19.99

Review w/ nothing added



BettaDirect Customer Reviews

No reviews yet.

Name:

Number of Fish Owned:

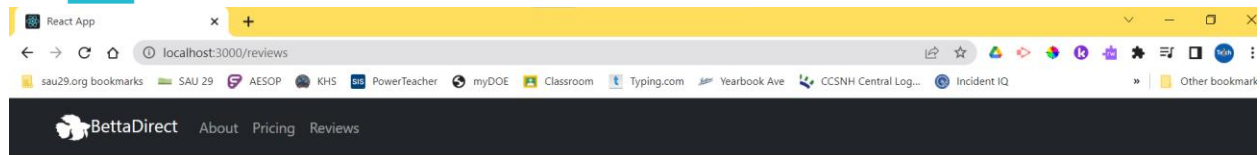
Review:

Rating:

Review w/ content added



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BettaDirect Customer Reviews

Chris Columbus

Date: Thu Sep 29 2022

Review: Pretty good service. 1 fish didn't make it past a week though.

Rating: 6

Number of Fish Owned: 101

Delete

John Smith

Date: Thu Sep 29 2022

Review: BettaDirect was very helpful in adding to my tank!

Rating: 9

Number of Fish Owned: 12

Delete

Name:

Enter Your Name

Number of Fish Owned:

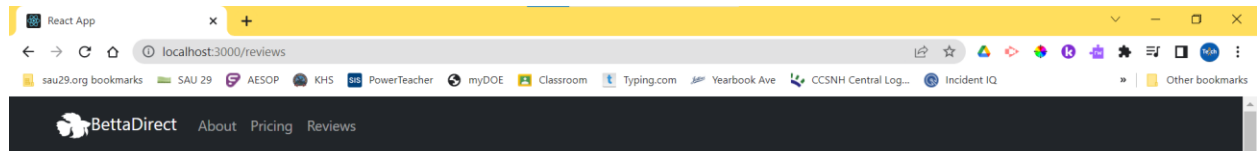
How many fish do you have?

Review:

Enter Your Review Here

Rating:

Review after content deleted



BettaDirect Customer Reviews

John Smith

Date: Thu Sep 29 2022

Review: BettaDirect was very helpful in adding to my tank!

Rating: 9

Number of Fish Owned: 12

Delete

Name:

Enter Your Name

Number of Fish Owned:

How many fish do you have?

Review:

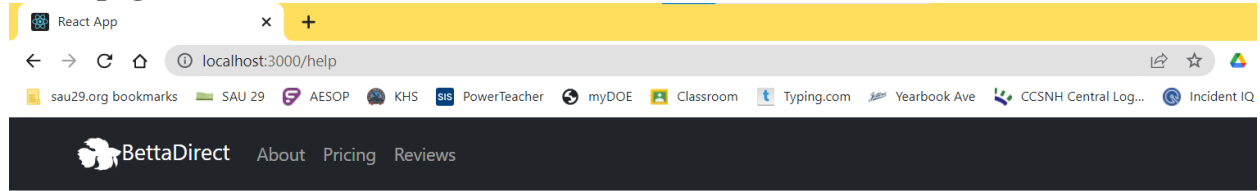
Enter Your Review Here

Rating:



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Error page



404 page not found

URL to GitHub Repository:

<https://github.com/dmoylan1/finalProject.git>