How to create a React frontend for your Spring Boot Java backend:

1. Project Setup:

• Create a new React project:

```
Bash
npx create-react-app my-react-app
Replace my-react-app with your desired project name.
```

Navigate to the project directory:

```
Bash
cd my-react-app
```

2. Install Dependencies:

• Install necessary libraries:

```
Bash

npm install axios

axios is a popular HTTP client library for making requests to your backend.
```

3. Set up Backend Communication:

- Create a service file: Create a new file named BackendService.js in a suitable directory (e.g., src/services).
- **Define API endpoints:** Inside the service file, define functions that will make HTTP requests to your backend API endpoints. For example:

```
JavaScript
import axios from 'axios';

const baseURL = 'http://localhost:8080'; // Replace with your backend URL

const getProducts = () => {
  return axios.get(`${baseURL}/products`);
};

export default {
  getProducts,
};

Replace http://localhost:8080 with the actual URL of your backend.
```

4. Integrate with Components:

 Import the service: In your React components, import the service file: JavaScript

```
import BackendService from './services/BackendService';
```

Make API calls: Use the service functions to make API calls and handle the responses:
 JavaScript

```
import React, { useState, useEffect } from 'react';
import BackendService from './services/BackendService';
function ProductsList() {
const [products, setProducts] = useState([]);
useEffect(() => {
 const fetchProducts = async () => {
   const response = await BackendService.getProducts();
   setProducts(response.data);
 };
 fetchProducts();
}, []);
return (
 <div>
   <h1>Products</h1>
     {products.map((product) => (
       {product.name}
     ))}
   </div>
);
```

export default ProductsList;

}

This example fetches a list of products from the backend and displays them in a list.

```
**5. Run the Frontend:**

- **Start the development server:**
   ``bash
npm start
```

Your React app will be running at http://localhost:3000.

Additional Tips:

- Consider using a state management library like Redux or Context API for more complex applications.
- Implement error handling and loading indicators to provide a better user experience.
- Use a linter to ensure code quality and consistency.
- Explore tools like Storybook for component development and testing.

By following these steps and leveraging the power of React, you can create a robust and user-friendly frontend for your Spring Boot Java backend.

Sources

1. https://www.bairesdev.com/blog/server-side-rendering-react/