Creating a simple React project named 'demosite' with a home page, a header with a menu and logo, and a footer with social media links can be done in a few steps.

Below are the instructions and the necessary code for each component.

Steps to Create the React Project

1. Set Up the Project:

- Make sure you have Node.js and npm installed.
- Create a new React project using Create React App.

npx create-react-app demosite cd demosite

2. Create Components and Pages:

- Create components for `Header`, `Footer`, and pages for `Home`, `About`, `Faculty`, `Courses`, and `Contact`.

3. Add Routing:

- Use React Router to handle navigation between pages.

4. Add CSS:

- Create a CSS file to style the components.

Step-by-Step Implementation

1. Set Up the Project

Run the following commands to set up the project:

Link to="/">Home</Link>Link to="/about">About</Link>

npx create-react-app demosite cd demosite npm install react-router-dom

2. Create the Components

The command npm install react-router-dom installs the react-router-dom package into your React project. This package is a collection of navigational components that enable routing in a React application, allowing you to create a single-page application (SPA) with dynamic and responsive navigation.

src/components/Header.js

<nav>

```
<Link to="/faculty">Faculty</Link>
     Link to="/courses">Courses</Link>
     Link to="/contact">Contact</Link>
    </nav>
  </header>
);
}
export default Header;
src/components/Footer.js
import React from 'react';
import './Footer.css';
const Footer = () => {
return (
  <footer>
   <div>
    <a href="https://facebook.com">Facebook</a>
    <a href="https://twitter.com">Twitter</a>
    <a href="https://instagram.com">Instagram</a>
   </div>
  </footer>
);
}
export default Footer;
src/components/Header.css
header {
display: flex;
justify-content: space-between;
align-items: center;
background-color: #333;
padding: 10px 20px;
}
.logo {
color: white;
font-size: 1.5em;
}
nav ul {
display: flex;
list-style: none;
}
nav ul li {
margin: 0 10px;
```

```
}
nav ul li a {
color: white;
text-decoration: none;
nav ul li a:hover {
text-decoration: underline;
}
src/components/Footer.css
footer {
background-color: #333;
color: white;
text-align: center;
padding: 10px 0;
position: absolute;
bottom: 0;
width: 100%;
}
footer a {
color: white;
margin: 0 10px;
text-decoration: none;
}
footer a:hover {
text-decoration: underline;
# 3. Create the Pages
src/pages/Home.js
import React from 'react';
const Home = () => {
return <h1>Welcome to the Home Page</h1>;
export default Home;
src/pages/About.js
import React from 'react';
const About = () => {
return <h1>About Us</h1>;
export default About;
```

```
src/pages/Faculty.js
```

```
import React from 'react'; crea
```

This line imports the React library, which is necessary for creating React components. React is used to build user interfaces by creating reusable components.

```
const Faculty = () => {
  return <h1>Our Faculty</h1>;
}
```

const Faculty defines a functional component called Faculty.
The component is defined using an arrow function () => {}.
return <h1>Our Faculty</h1>; returns an HTML heading element

export default Faculty;

This line exports the Faculty component as the default export of the module. This allows other files to import and use the Faculty component in the application.

src/pages/Courses.js

```
import React from 'react';

const Courses = () => {
  return <h1>Our Courses</h1>;
}
export default Courses;

src/pages/Contact.js

import React from 'react';

const Contact = () => {
  return <h1>Contact Us</h1>;
}
export default Contact;
```

4. Set Up Routing in App.js

src/App.js

```
import React from 'react';
import { BrowserRouter as Router, Route, Switch } from 'react-router-dom';
import Header from './components/Header';
import Footer from './components/Footer';
import Home from './pages/Home';
import About from './pages/About';
import Faculty from './pages/Faculty';
import Courses from './pages/Courses';
import Contact from './pages/Contact';
import './App.css';
const App = () => {
return (
  <Router>
   <div className="App">
    <Header />
    <div className="content">
     <Switch>
      <Route exact path="/" component={Home} />
```

```
<Route path="/about" component={About} />
      <Route path="/faculty" component={Faculty} />
      <Route path="/courses" component={Courses} />
      <Route path="/contact" component={Contact} />
     </Switch>
    </div>
    <Footer />
   </div>
  </Router>
);
}
export default App;
# 5. Add Global CSS
src/App.css
  css
body, html {
margin: 0;
padding: 0;
font-family: Arial, sans-serif;
}
.App {
display: flex;
flex-direction: column;
```

min-height: 100vh;

}

}

.content {
 flex: 1;

6. Run the Project

npm start

This will start the development server, and you can view your project at 'http://localhost:3000'.

Your project structure should look like this:



