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TRACK:-JAVA FSE

Problem statement: Create a react app for Student Management Portal named StudentApp and create a component named Home which will display the Message “Welcome to the Home page of Student Management Portal”. Create another component named About and display the Message “Welcome to the About page of the Student Management Portal”. Create a third component named Contact and display the Message “Welcome to the Contact page of the Student Management Portal”. Call all the three components

1. Create a new React project

Open Visual Studio Code terminal and run:

```
C:\Users\DELL>npx create-react-app studentapp

Creating a new React app in C:\Users\DELL\studentapp.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

added 1323 packages in 2m

269 packages are looking for funding
  run `npm fund` for details
```

2. Navigate into the project folder



3. Create a folder named Components inside src

4. Create Home.js inside Components

The image shows a VS Code editor window with the Explorer sidebar on the left. The Explorer shows the project structure: **STUDENTAPP** > **src** > **Components**. The **Components** folder is expanded, showing **Home.js** as the selected file. The main editor area displays the code for **Home.js**:

```
1 // src/Components/Home.js
2 import React from 'react';
3
4 function Home() {
5   return (
6     <div>
7       <h2>Welcome to the Home page of Student Management Portal</h2>
8     </div>
9   );
10 }
11
12 export default Home;
```

5. Create About.js inside Components

The image shows a VS Code editor window with the Explorer sidebar on the left. The Explorer shows the project structure: **STUDENTAPP** > **src** > **Components**. The **Components** folder is expanded, showing **About.js** as the selected file. The main editor area displays the code for **About.js**:

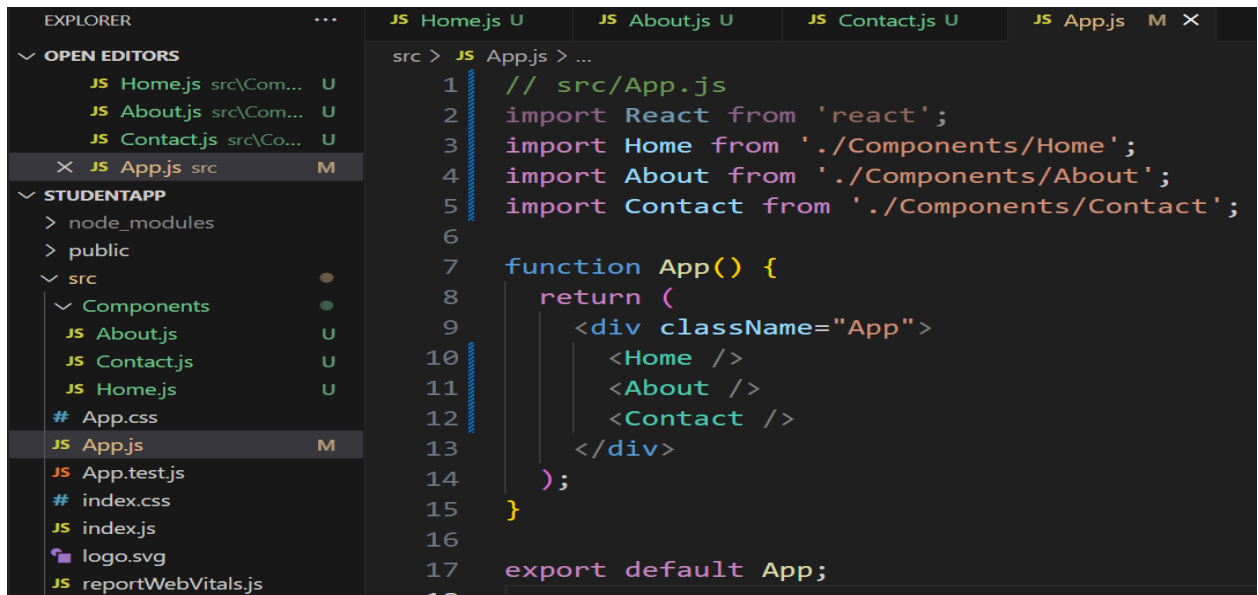
```
4 function About() {
5   return (
6     <div>
7       <h2>Welcome to the About page of the Student Management Portal</h2>
8     </div>
9   );
10 }
11
12 export default About;
```

6. Create Contact.js inside Components

The image shows a VS Code editor window with the Explorer sidebar on the left. The Explorer shows the project structure: **STUDENTAPP** > **src** > **Components**. The **Components** folder is expanded, showing **Contact.js** as the selected file. The main editor area displays the code for **Contact.js**:

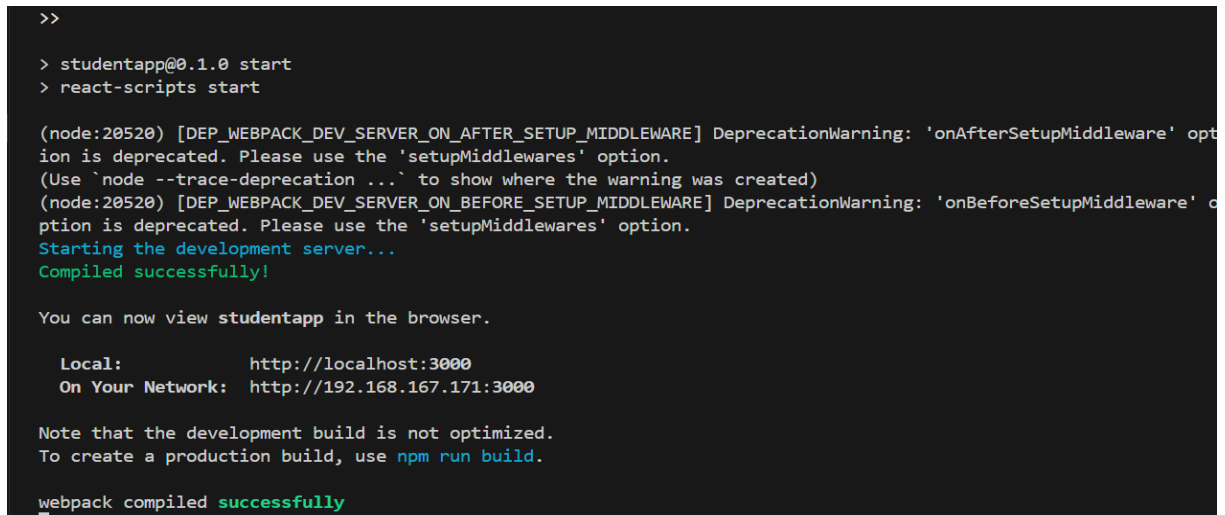
```
4 function Contact() {
5   return (
6     <div>
7       <h2>Welcome to the Contact page of the Student Management
8       Portal</h2>
9     </div>
10   );
11 }
12 export default Contact;
```

7. Edit App.js to use all three components



```
1 // src/App.js
2 import React from 'react';
3 import Home from './Components/Home';
4 import About from './Components/About';
5 import Contact from './Components/Contact';
6
7 function App() {
8   return (
9     <div className="App">
10       <Home />
11       <About />
12       <Contact />
13     </div>
14   );
15 }
16
17 export default App;
```

8. Run the React app



```
>>
> studentapp@0.1.0 start
> react-scripts start

(node:20520) [DEP_WEBPACK_DEV_SERVER_ON_AFTER_SETUP_MIDDLEWARE] DeprecationWarning: 'onAfterSetupMiddleware' option is deprecated. Please use the 'setupMiddlewares' option.
(Use `node --trace-deprecation ...` to show where the warning was created)
(node:20520) [DEP_WEBPACK_DEV_SERVER_ON_BEFORE_SETUP_MIDDLEWARE] DeprecationWarning: 'onBeforeSetupMiddleware' option is deprecated. Please use the 'setupMiddlewares' option.
Starting the development server...
Compiled successfully!

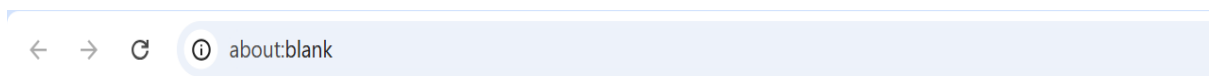
You can now view studentapp in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.167.171:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

9. Open the app in browser



Welcome to the Home page of Student Management Portal

Welcome to the About page of the Student Management Portal

Welcome to the Contact page of the Student Management Portal