Exercise 7
React Hook, Props & Conditional Rendering

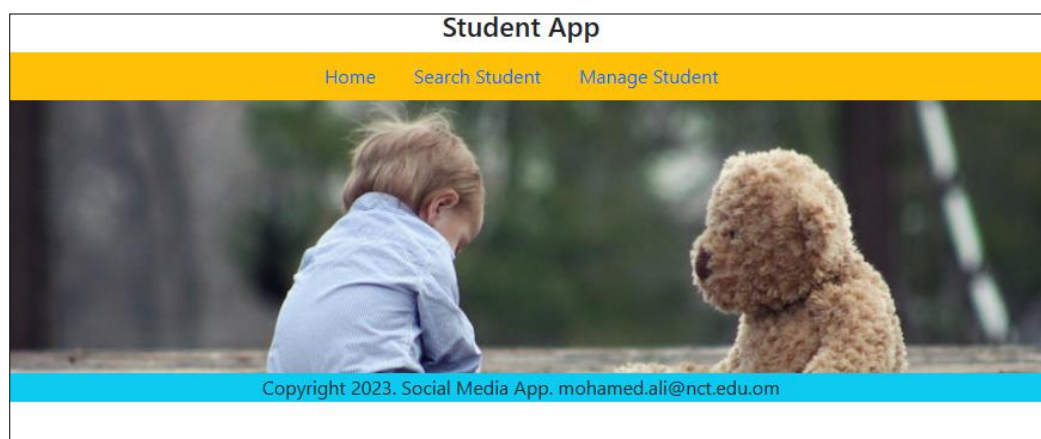**Implement the following instructions using the different React features and concepts.**
Part 1 – Bootstrap, CSS and creating components.

1. Create a React app **ex7**.
2. Import the Bootstrap library.
3. Import React router dom library.
4. Update the App.js component to create the Grid. Use Bootstrap classes to create the following wireframe.

(Header Component)
Main (Home,ManageStudent, SearchStudent) will be rendered dynamically based on the Routes
(Footer Component)

5. Create a folder named **Components** and create the following components inside the created folder. Refer to the screenshots for the content for each component.

    a) `Home` – The component should display the banner.jpg picture

    b) `ManageStudent`
       • Create an array that initializes names of students.

```
STUDENTS =["Ali", "John", "Asma"]
```

- Display these names when the page renders.
- Implement the appropriate codes to add the new student to the array when the user clicks the **"Add Student"** button and display the newly added student.
- Implement the appropriate codes to delete a student from the array when the user clicks the **"Delete"** button and display the updated student array after deletion.

c) **SearchStudent** - In the **SearchStudent** component:
- Create state variable **studentId** using the **useState** hook to store the user input.
- Call the component **DisplayItem** and pass the parameter **studentId.**
- The component **DisplayItem** should take the parameter **studentId** from the parent component **SearchStudent**. And it should search and display the details from the **StudentsData** array. The **StudentsData** array should be imported in the component.
- The component can use filter and map method to display the student details.

d) **Header –** Import the header component which is available in the work file folder. You can find the routes for each component.

e) **Footer -** Import the header component which is available in the work file folder.

6. Your **index.js** should render only the App component.

7. Render the components on the specified grids.

(**Header** Component)
Main (**Home,ManageStudent, SearchStudent**) will be rendered dynamically based on the Routes
(**Footer** Component)

8. **Creating Routes**

   a) Use the React Router to create routes to the three components.
      1. **/** → render the **Home** component
      2. **/search** → render the **SearchStudent** component
      3. **/manage** → render the **ManageStudent** component
   b) Update the **nav** bar in the header components to link to the created routes apply necessary bootstrap classes.