

- **Task 2**

Create a web application using create-react-app

1. Create a User card grid layout having a navbar showing any brand name
2. Add a button in the navbar saying 'Get Users', which makes an API call to get the user data
3. Use <https://reqres.in/api/users?page=1> to get the data
4. Show a loader while the API fetches the data.
5. Use custom CSS/SASS/styled-components.

Ans:-

To create a web application using Create React App with the mentioned requirements, follow the steps below:

Step 1: Set Up the React App

Install Node.js on your machine if you haven't already.

Open your terminal or command prompt and run the following command to create a new React app:

```
npx create-react-app user-card-app
```

Once the installation is complete, navigate to the project directory:

```
cd user-card-app
```

Open the project in your preferred code editor.

Step 2: Implement the User Card Grid Layout

In the src folder, create a new file called Navbar.js and add the following code:

jsx:

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

```
const Navbar = () => {  
  return (  
    <nav>  
      <div className="brand">Your Brand Name</div>  
      <button className="get-users-btn">Get Users</button>  
    </nav>  
  );  
};
```

```
export default Navbar;
```

Create another file called UserCard.js and add the following code

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

```
const UserCard = ({ user }) => {  
  return (  
    <div className="user-card">  
      <img src={user.avatar} alt={user.first_name} />  
      <h3>`${user.first_name} ${user.last_name}`</h3>  
      <p>{user.email}</p>  
    </div>  
  );  
};
```

```
export default UserCard;
```

In the App.js file, remove the existing code and add the following code:

```
import React, { useState, useEffect } from 'react';  
import Navbar from './Navbar';  
import UserCard from './UserCard';  
  
const App = () => {  
  const [users, setUsers] = useState([]);  
  const [isLoading, setIsLoading] = useState(false);  
  
  const fetchUsers = async () => {  
    setIsLoading(true);  
    try {  
      const response = await fetch('https://reqres.in/api/users?page=1');  
      const data = await response.json();  
      setUsers(data.data);  
      setIsLoading(false);  
    } catch (error) {  
      console.log(error);  
      setIsLoading(false);  
    }  
  }  
}
```

```

};

useEffect(() => {
  fetchUsers();
}, []);

return (
  <div className="App">
    <Navbar />
    {isLoading ? (
      <div className="loader">Loading...</div>
    ) : (
      <div className="user-card-grid">
        {users.map((user) => (
          <UserCard key={user.id} user={user} />
        ))}
      </div>
    )}
  </div>
);
};

export default App;

```

Step 3: Implement Custom CSS/Styling

Open the src/App.css file and replace the existing CSS code with the following:

```

.App {
  text-align: center;
  padding: 20px;
}

nav {
  background-color: #f4f4f4;
  padding: 10px;
  display: flex;
  justify-content: space-between;
  align-items: center;
}

.brand {
  font-size: 20px;
}

```

```
    font-weight: bold;
}
```

```
.get-users-btn {
  background-color: #4caf50;
  color: #fff;
  border: none;
  padding: 8px 12px;
  border-radius: 5px;
  cursor: pointer;
}
```

```
.user-card-grid {
  display: grid;
  grid-template-columns: repeat(auto-fit, minmax(250px, 1fr));
  gap: 20px;
  margin-top: 30px;
}
```

```
.user-card {
  background
```