

Assignment 1 : Learning React

Create a **Tic-Tac-Toe** game in react as mentioned in react documentation

Documents to refer : These documents contain installation guide and end to end development of the game

1. Getting Started : <https://reactjs.org/docs/getting-started.html>
2. Tic-Tac-Toe Tutorial : <https://reactjs.org/tutorial/tutorial.html>

Assignment 2 : Using third party components and libraries in React

Create **single page application (SPA)** in react using client side routing and using antd components

1. Create a login page with username, password and submit button (No need for actual API call to validate username and password)
2. On submit on login page, user should see a navbar with 3 menus on left : home, About Me, and Contact Me and username and logout button on right
3. On clicking logout, user should be redirected to login page, on clicking menu, user should be redirected to respected menu page
4. Home page should have something interesting about BITS (use your imagination for content as well as UI)
5. About Me page should have something interesting about yourself (use your imagination for content as well as UI)
6. Contact Me page should have a form with few input fields of your choice and on submit print the input values in console

Documents to refer : These documents contain installation guide and end to end development of the game

1. Client Side Routing : <https://reacttraining.com/react-router/web/guides/quick-start>
2. antd Component Library : <https://ant.design/docs/react/introduce>

Assignment 3 : Using API

Add APIs to your Login Page and Contact Me Page using **'fetch'**

1. Login page API – POST API, sending username and password in body to url : testurl.com/login
 - a. API will fail as there is no url as above. Even if API fails, login should pass
2. On Submit of form on Contact Me Page – POST API, sending all the form parameters in body to url : testurl.com/contactme
 - a. API will fail as there is no url as above.

Documents to refer : These documents contain installation guide and end to end development of the game

1. Fetch API : https://developer.mozilla.org/en-US/docs/Web/API/Fetch_API

Assignment 4 : Logic building in react (JavaScript)

Create a **menu bar** with following requirements

1. Menu bar contains dynamic nested menus as below
 - a. Ex: Home -> 5 modules -> each module has 5 sub modules -> each has 5 form groups -> each has 5 forms
2. Filter Bar to filter menus
 - a. After filter those menus should be displayed which contains search text, or any of its child contains search text
3. Use antd components only