Statement Purpose:

To familiarize the students with
- ▣ React RouterSwitch (Responsive Navbar using ReactJS)

Responsive Navbar using ReactJS

Modules required

- npm
- create-react-app
- styled-components
- react-router-dom

1. start a new project using create-react-app so open your terminal and type:

   npx create-react-app navigation-bar

2. Go to your navigation-bar folder by typing the given command in the terminal:

   cd navigation-bar

3. Install the dependencies required in this project by typing the given command in the terminal:
   - npm install react-router-dom
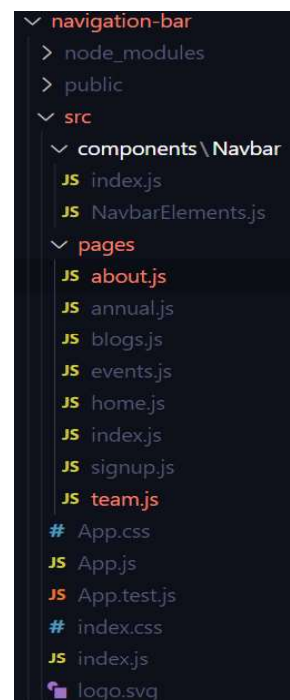   - npm install --save styled-components

4. Create the components folder in **src** then go to the components folder and create a new folder name **Navbar**.

5. In **Navbar** folder create two files
   - Index.js
   - NavbarElements.js

6. Create one more folder in **src** name pages and in pages create files name
   - about.js
   - annual.js
   - blogs.js
   - events.js
   - index.js
   - signup.js
   - team.js

```
∨ navigation-bar
  > node_modules
  > public
  ∨ src
    ∨ components \ Navbar
      JS index.js
      JS NavbarElements.js
    ∨ pages
      JS about.js
      JS annual.js
      JS blogs.js
      JS events.js
      JS home.js
      JS index.js
      JS signup.js
      JS team.js
    # App.css
    JS App.js
    JS App.test.js
    # index.css
    JS index.js
    logo.svg
```

7. Create **index.js** file in **src/components/Navbar**

```jsx
import React from 'react';
import {
Nav,
NavLink,
Bars,
NavMenu,
NavBtn,
NavBtnLink,
} from './NavbarElements';

const Navbar = () => {
return (
    <>
    <Nav>
      <Bars />

      <NavMenu>

      <NavLink to='/home' activeStyle>
        Home
      </NavLink>
      <NavLink to='/about' activeStyle>
        About
      </NavLink>
      <NavLink to='/events' activeStyle>
        Events
      </NavLink>
      <NavLink to='/annual' activeStyle>
        Annual Report
      </NavLink>
      <NavLink to='/team' activeStyle>
        Teams
      </NavLink>
      <NavLink to='/blogs' activeStyle>
        Blogs
      </NavLink>
      <NavLink to='/sign-up' activeStyle>
        Sign Up
      </NavLink>
      </NavMenu>
      <NavBtn>
      <NavBtnLink to='/signin'>Sign In</NavBtnLink>
      </NavBtn>
    </Nav>
    </>
);
};
export default Navbar;
```

8. Create **NavbarElements.js** file in **src/components/Navbar**.

If react icon not installed, run the following command

- npm install react-icons --save

```
import { FaBars } from 'react-icons/fa';
import { NavLink as Link } from 'react-router-dom';
import styled from 'styled-components';

export const Nav = styled.nav`
background: green;
height: 85px;
display: flex;
justify-content: space-between;
padding: 0.2rem calc((100vw - 1000px) / 2);
z-index: 12;
`;

export const NavLink = styled(Link)`
color: yellow;
display: flex;
align-items: center;
text-decoration: none;
padding: 0 1rem;
height: 100%;
cursor: pointer;
&.active {
   color: #000000;
}
`;

export const Bars = styled(FaBars)`
display: none;
color: #808080;
@media screen and (max-width: 768px) {
   display: block;
   position: absolute;
   top: 0;
   right: 0;
   transform: translate(-100%, 75%);
   font-size: 1.8rem;
   cursor: pointer;
}
`;

export const NavMenu = styled.div`
display: flex;
align-items: center;
margin-right: -24px;
@media screen and (max-width: 768px) {
```

```
    display: none;
}
`;

export const NavBtn = styled.nav`
display: flex;
align-items: center;
margin-right: 24px;
@media screen and (max-width: 768px) {
    display: none;
}
`;

export const NavBtnLink = styled(Link)`
border-radius: 4px;
background: red;
padding: 10px 22px;
color: #000000;
outline: none;
border: none;
cursor: pointer;
transition: all 0.2s ease-in-out;
text-decoration: none;
/* Second Nav */
margin-left: 24px;
&:hover {
    transition: all 0.2s ease-in-out;
    background: #fff;
    color: #808080;
}
`;
```

9. Edit various pages for the navigation bar in the project in **src/pages**
   i.   **about.js**

```
import React from 'react';

const About = () => {
return (
  <div
  style={{
     justifyContent: 'Right',
     alignItems: 'Right',
     height: '100vh'
  }}
  >
  <h1>Vision</h1>
<p>Air University aspires to be among the leading national universities, excelling in
teaching, learning, research, innovation and public service.
```

```
</p>
<br/>
<h1>Mission</h1>
<p>The mission of Air University is to achieve excellence in teaching and research
for producing graduates with sound professional knowledge, integrity of character, a
keen sense of social responsibility and a passion for lifelong learning. The University
shall stand committed to creating an environment conducive for attracting the best
students, faculty and supporting staff for contributing to the development of a
prosperous, peaceful and enlightened society.
    </p></div>
);
};

export default About;
```

ii. annual.js

```
import React from 'react';

const AnnualReport = () => {
return (
    <div
    style={{
        justifyContent: 'Right',
        alignItems: 'Right',
        height: '100vh'
    }}
    >
    <h1>Annual Report</h1>
    <h2>What Does Website Mean?</h2>
    <p>A website is a collection of publicly accessible, interlinked Web pages that
share a single domain name. Websites can be created and maintained by an
individual, group, business or organization to serve a variety of purposes.</p>
    </div>
);
};

export default AnnualReport;
```

iii.   blogs.js

```jsx
import React from 'react';

const Blogs = () => {
return (
    <div
    style={{
        justifyContent: 'Right',
        alignItems: 'Right',
        height: '100vh'
    }}
    >
    <h1>Blogs</h1>
    <p>
    The importance of blog descriptions may not seem important to you now.

When users come across your brand in the SERPs, the first thing they come across
is the description. Next to the title, it is the one that makes make or break decision.

Blog or post description is the piece of text that appears below your link in SERPs
and social sites.

There are two types of descriptions for a blog.

 <ul>
    <li>
    Blog description: A description of your whole blog visible under your blog's
homepage link.
    </li>
    <li>
    Blog post description: A description of what your blog post is about that is
different for your each and every blog post
    </li>
 </ul>

Refer the below table of content on how I've categorized this blog post to cover both
of the types of blog descriptions.
    </p>
    </div>
);
};

export default Blogs;
```

iv. events.js

```javascript
import React from 'react';

const Events = () => {
return (
   <div
   style={{
      justifyContent: 'Right',
      alignItems: 'Right',
      height: '100vh'
   }}
   >
   <h1>Events</h1>
   <h3>What is an Event Description?</h3>
   <p>An event description is a text or copy that tells audiences all the essential
details about your event. These details should come together so that it compels
potential attendees to register. But more than driving up attendance, a good event
description can pique the interest of non-members and even the press.</p>
   </div>
);
};

export default Events;
```

v. index.js

```javascript
import React from 'react';

const Home = () => {
return (
   <div
   style={{
      display: 'flex',
      justifyContent: 'Right',
      alignItems: 'Right',
      height: '100vh'
   }}
   >
   <h1>Introduction</h1>
   <p>The Air University is a federally chartered public sector research university in
Pakistan. Established in 2002, its main campus is located in the capital city of
Islamabad, Pakistan. The university has two other functional campuses, Aerospace
and Aviation Campus at Kamra and a campus at Multan.</p>
   </div>
);
};

export default Home;
```

vi.   signup.js

```
import React from 'react';

const SignUp = () => {
return (
   <div
   style={{
      justifyContent: 'Right',
      alignItems: 'Right',
      height: '100vh'
   }}
   >
   <h1>Sign Up</h1>
   <form>
 <label>
  Name:
  <input type="text" name="name" />
 </label>
 <br/>
 <label>
  Email:
  <input type="text" name="name" />
 </label>
 <br />
 <input type="submit" placeholder="xyz@abc.com" value="Submit" />
</form>
   </div>
);
};

export default SignUp;
```

vii.   team.js:

```
import React from 'react';

const Teams = () => {
return (
   <div
   style={{
      justifyContent: 'Right',
      alignItems: 'Right',
      height: '100vh'
   }}
   >
   <h1>Our Team</h1>
   <p>Adding a "Meet the Team" page or section to your website is an easy,
effective way to give your business an accessible face. As one of your most
```

```
important pages, it gives prospects an idea of who exactly they'll be working with,
and shows potential employees that you're proud of the people on your team.
  </p>
<p>
For some inspiration, see how these companies introduce visitors to their most
important creative assets: their people.</p>
  </div>
);
};

export default Teams;
```

viii.   home.js

```
import React from 'react';

const Events = () => {
return (
  <div
  style={{
    justifyContent: 'Right',
    alignItems: 'Right',
    height: '100vh'
  }}
  >
  <h1>Home Page</h1>
  </div>
);
};

export default Events;
```

10. Filename **src/index.js**: file in src

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';
import App from './App';
import reportWebVitals from './reportWebVitals';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
 <React.StrictMode>
  <App />
 </React.StrictMode>
);

// If you want to start measuring performance in your app, pass a function
// to log results (for example: reportWebVitals(console.log))
```

```
// or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
reportWebVitals();
```

11. Filename **App.js**: file in **src** folder

```
import React from 'react';
import './App.css';
import Navbar from './components/Navbar';
import { BrowserRouter as Router, Switch, Route } from 'react-router-dom';
import Home from './pages';
import About from './pages/about';
import Events from './pages/events';
import AnnualReport from './pages/annual';
import Teams from './pages/team';
import Blogs from './pages/blogs';
import SignUp from './pages/signup';

function App() {
return (
    <Router>
    <Navbar />
    <Switch>
        <Route path='/' exact component={Home} />
        <Route path='/about' component={About} />
        <Route path='/events' component={Events} />
        <Route path='/annual' component={AnnualReport} />
        <Route path='/home' component={Home}/>
        <Route path='/team' component={Teams} />
        <Route path='/blogs' component={Blogs} />
        <Route path='/sign-up' component={SignUp} />
    </Switch>
    </Router>
);
}

export default App;
```