



CET-223

Web Technologies

Experiment # 20

Experiment Title

Open Ended Activity – III

Assessment of CLO(s): 04

Performed on _____

Student Name:			
Roll No.		Group	
Semester		Session	

Total (Max)	Performance (03)	Viva (03)	File (04)	Total (10)
Marks Obtained				
Remarks (if any)				

Experiment evaluated by

Instructor's Name	Engr. Bilal Iqbal		
Date		Signature	

Lab Task:

Create a responsive navigation bar using React and Bootstrap with a theme switcher button that toggles between Light and Dark themes. The navbar should change its background and text colors dynamically based on the selected theme. Additionally, the page background and text should also adapt to the selected theme.

1. Navbar Design:

- Use Bootstrap to design a responsive navigation bar.
- Include the following items in the navbar:
 - A brand/logo on the left.
 - Links for "Home" and "About".
 - A "Switch Theme" button on the right side.
 - Add icons to the "Switch Theme" button to represent the Light and Dark themes (e.g., a sun for light and a moon for dark).

2. Page Content:

- Create a simple **homepage** with the following sections:
 - **Header:** A large header with a welcome message styled using Bootstrap classes
 - **Content Section:** Add a responsive Bootstrap grid with three columns to display some text or cards.
 - **Footer:** A footer section styled with Bootstrap, which also changes theme dynamically.

3. Theme Functionality:

- Use `useState` in React to manage the theme (Light or Dark).
- Apply Bootstrap classes dynamically to toggle the following:
 - Navbar
 - Page background and text

4. Responsive Design:

- Ensure the navbar collapses into a toggle menu on smaller screens.

Expected Output:

- A responsive navbar with links.
- A "Switch Theme" button that toggles the app's theme between Light and Dark.
- The theme change should dynamically affect the navbar and the entire page.