@KLWKS\_BOT THANOS

# DEPARTMENT OF CSE COURSE CODE: 23SDCS12A / 23SDCS12R FULL STACK APPLICATION DEVELOPMENT

Date of the Session:	/	/	Time of The Session:	to	

### LAB $-2 \rightarrow$ Development of responsive frontend for system and mobile View

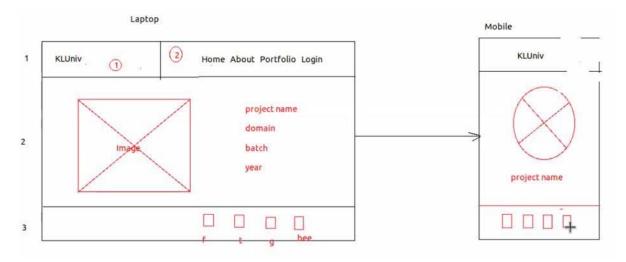
### **Prerequisites:**

Knowledge on the HTML elements and styling

#### **Exercise:**

This Product Directory allows users to view product details in a grid layout on larger screens and in a single-column list view on smaller screens. It will dynamically fetch employee data from the database and adjust the layout based on the screen size. So that, to create a **responsive front end** that display data and adapts to both **desktop** and **mobile** views.

The view may be like the below one,



@KLWKS\_BOT THANOS

## index.html

Image download:

https://m.media-amazon.com/images/I/61Qe0euJJZL. AC UF1000,1000 QL80 FMwebp .jpg

- Image save and rename as laptop
- ❖ Watch The Video And Do In Visual Studio <a href="https://youtu.be/b9gPPc\_Bn64?si=FgTdXKbvQJqUr9Lz">https://youtu.be/b9gPPc\_Bn64?si=FgTdXKbvQJqUr9Lz</a>

@KLWKS\_BOT THANOS

## **Template.jsx**

```
import laptop from './laptop.jpg'
import './style.css'
function Template() {
 return (
  <div className="container">
   <div className="header">
    <div className="heading">KL UNIVERSITY</div>
    <div className="menu">
     <span>Home</span>
     <span>About</span>
     <span>Portfolio</span>
     <span>Login</span>
    </div>
   </div>
   <div className="content">
    <div className="plogo">
  <img src={laptop} alt="No Image" width={100} height={100} />
    </div>
    <div className="pdetails">
     <div className="pname">Product Name</div>
     <div className="pother">
      Product description
      Rs. 1000
      2024
     </div>
    </div>
   </div>
```

@KLWKS\_BOT THANOS

# <mark>main.jsx</mark>

@KLWKS\_BOT THANOS

```
style.css
.container {
  border: 1px solid green;
  width: 93vw;
}
.header {
  display: flex;
  padding: 10px;
  border: 1px solid red;
.heading{
  flex: -1;
.menu{
flex: 2;
.menu span{
  margin-left: 20px;
.content{
  display: inline-flex;
.plogo{
  flex: 1;
.pdetails{
  flex: 2;
  margin-left: 50px;
.footer{
```

@KLWKS\_BOT THANOS

```
border: 1px solid red;
}
.slogo{
  padding: 10px;
  text-align: right;
  margin-right: 50px;
}
.slogo i{
  margin-right: 20px;
}
```

# <mark>Output</mark>



@KLWKS\_BOT THANOS

## **VIVA QUESTIONS:**

- 1. How does the className attribute work in JSX, and why isn't it just class like in HTML?
- In JSX, className is used because class is a reserved keyword in JavaScript.
- It allows assigning CSS classes to elements in a React-friendly way.
- 2. What are dynamic classes, and how can you add them based on state in React?
- Dynamic classes change based on the component's state or props.
- Use conditional expressions like className={isActive ? "active" : "inactive"}.
- 3. How do CSS preprocessors like Sass or LESS integrate with React?
- Preprocessed CSS files are compiled into standard CSS.
- Import the compiled CSS into React components using import './styles.css'.

@KLWKS\_BOT THANOS

- 4. Explain the concept of scoped CSS in React and how you can achieve it.
- Scoped CSS limits styles to specific components.
- Achieve it using CSS Modules ( styles.module.css ) or styled-components.
- 5. What are styled-components, and how do they differ from inline styles or external stylesheets?
  - Styled-components allow writing CSS-in-JS.
  - They create unique class names, avoiding global style conflicts.

(For Evaluator's use only)

Comment of the Evaluator (if Any)	Evaluator's Observation  Marks Secured out of 50  Full Name of the Evaluator:
	Signature of the Evaluator Date of Evaluation: