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

Date of the Session: / /	Time of The Session:to	_
#LAB – 5 → Utilizing the predefined responsive design elements with Bootstrap / Material-Ul for designing		
Prerequisites:  Material UI need to be installed or Bootstrap CDN need to be into	tegrated	
Exercise 1:		
Create a form with Material-UI / Bootstrap components (such as to collect user information and validate the input.	text fields, select fields, and checkboxes)	ı
Exercise 2:		
Implement a responsive navigation bar using Material-UI's App B bar should have a logo, menu items, and handle mobile responsive	• • •	1
❖ Watch The Video And Do In Visual Studio		
5a https://youtu.be/N99cwmw2eE0?si=Sx4KPFU9i7JlOy90	<u>)</u>	
5b https://youtu.be/LiLREqksEAk?si=-LJglQEKBfEM6LTb		
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## index.html

```
<!doctype html>
<html lang="en">
 <head>
  <meta charset="UTF-8" />
  <link rel="icon" type="image/svg+xml" href="/vite.svg" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <link rel="stylesheet"</pre>
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
  <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
  <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></scri</pre>
pt>
  <title>Vite + React</title>
 </head>
 <body>
  <div id="root"></div>
  <script type="module" src="/src/main.jsx"></script>
 </body>
</html>
```

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# Ex5.jsx

```
import ResponsiveAppBar from './Appbar';
import './style.css';
export default function Ex5() {
 function Mover(){
document.getElementById("login").className='mover-login'
 }
 function Mleave(){
   document.getElementById("login").className='login-form'
     }
 return (
   <div className='parent'>
   <ResponsiveAppBar/>
   <center>
   <div className='login-form' onMouseOver={Mover} onMouseLeave={Mleave}</pre>
id="login">
     Login Page
     Name: 
      <input type="text" className='form-control' name="t1" id="un" />
      Password: 
        <input type="password" className='form-control' name="t2" id="pwd" />
```

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```
Role: 
      <select className="form-control" id="sel1">
        <option value={1}>Admin
        <option value={2}>User</option>
       </select>
       <button className="btn btn-
success">Login</button>
    </div>
   </center>
  </div>
 );
}
```

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# Appbar.jsx

```
import * as React from 'react';
import AppBar from '@mui/material/AppBar';
import Box from '@mui/material/Box';
import Toolbar from '@mui/material/Toolbar';
import IconButton from '@mui/material/IconButton';
import Typography from '@mui/material/Typography';
import Menu from '@mui/material/Menu';
import Menulcon from '@mui/icons-material/Menu';
import Container from '@mui/material/Container';
import Avatar from '@mui/material/Avatar';
import Button from '@mui/material/Button';
import Tooltip from '@mui/material/Tooltip';
import Menultem from '@mui/material/Menultem';
import Adblcon from '@mui/icons-material/Adb';
const pages = ['Products', 'Pricing', 'Blog'];
const settings = ['Profile', 'Account', 'Dashboard', 'Logout'];
function ResponsiveAppBar() {
 const [anchorElNav, setAnchorElNav] = React.useState(null);
 const [anchorElUser, setAnchorElUser] = React.useState(null);
 const handleOpenNavMenu = (event) => {
  setAnchorElNav(event.currentTarget);
 };
 const handleOpenUserMenu = (event) => {
  setAnchorElUser(event.currentTarget);
 };
 const handleCloseNavMenu = () => {
  setAnchorElNav(null);
 };
 const handleCloseUserMenu = () => {
  setAnchorElUser(null);
```

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```
};
return (
 <AppBar position="static">
  <Container maxWidth="xl">
   <Toolbar disableGutters>
    <Adblcon sx={{ display: { xs: 'none', md: 'flex' }, mr: 1 }} />
    <Typography
     variant="h6"
     noWrap
     component="a"
     href="#app-bar-with-responsive-menu"
     sx={{
      mr: 2,
      display: { xs: 'none', md: 'flex' },
      fontFamily: 'monospace',
      fontWeight: 700,
      letterSpacing: '.3rem',
      color: 'inherit',
      textDecoration: 'none',
     }}
    >
     LOGO
    </Typography>
    <Box sx={{ flexGrow: 1, display: { xs: 'flex', md: 'none' } }}>
     <lconButton
      size="large"
      aria-label="account of current user"
      aria-controls="menu-appbar"
      aria-haspopup="true"
      onClick={handleOpenNavMenu}
      color="inherit"
      <Menulcon/>
     <Menu
      id="menu-appbar"
```

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```
anchorEl={anchorElNav}
  anchorOrigin={{
   vertical: 'bottom',
   horizontal: 'left',
  }}
  keepMounted
  transformOrigin={{
   vertical: 'top',
   horizontal: 'left',
  }}
  open={Boolean(anchorElNav)}
  onClose={handleCloseNavMenu}
  sx={{ display: { xs: 'block', md: 'none' } }}
  {pages.map((page) => (
   <MenuItem key={page} onClick={handleCloseNavMenu}>
    <Typography sx={{ textAlign: 'center' }}>{page}</Typography>
   </MenuItem>
  ))}
</Menu>
</Box>
<Adblcon sx={{ display: { xs: 'flex', md: 'none' }, mr: 1 }} />
<Typography
variant="h5"
noWrap
component="a"
 href="#app-bar-with-responsive-menu"
sx={{
  mr: 2,
  display: { xs: 'flex', md: 'none' },
  flexGrow: 1,
  fontFamily: 'monospace',
  fontWeight: 700,
 letterSpacing: '.3rem',
  color: 'inherit',
  textDecoration: 'none',
}}
```

```
LOGO
</Typography>
<Box sx={{ flexGrow: 1, display: { xs: 'none', md: 'flex' } }}>
{pages.map((page) => (
  <Button
   key={page}
   onClick={handleCloseNavMenu}
   sx={{ my: 2, color: 'white', display: 'block' }}
   {page}
  </Button>
))}
</Box>
<Box sx={{ flexGrow: 0 }}>
 <Tooltip title="Open settings">
  <lconButton onClick={handleOpenUserMenu} sx={{ p: 0 }}>
   <Avatar alt="Remy Sharp" src="/static/images/avatar/2.jpg" />
  </lconButton>
 </Tooltip>
 <Menu
  sx={{ mt: '45px' }}
  id="menu-appbar"
  anchorEl={anchorElUser}
  anchorOrigin={{
   vertical: 'top',
   horizontal: 'right',
  }}
  keepMounted
  transformOrigin={{
   vertical: 'top',
   horizontal: 'right',
  }}
  open={Boolean(anchorElUser)}
  onClose={handleCloseUserMenu}
  {settings.map((setting) => (
   <MenuItem key={setting} onClick={handleCloseUserMenu}>
    <Typography sx={{ textAlign: 'center' }}>{setting}</Typography>
```

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```
</Menultem>

))}

</Menu>

</Box>

</Toolbar>

</Container>

</AppBar>
);
}

export default ResponsiveAppBar;
```

# <mark>main.jsx</mark>

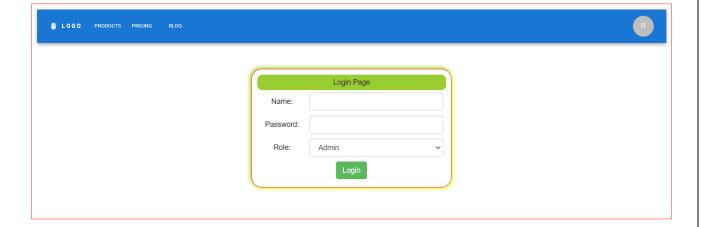
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# Style.css

```
.parent{
border: 1px solid red;
width: 80vw;
padding: 10px;
.login-form{
  border: 1px solid red;
  margin: 50px;
  width: 20vw;
  height: auto;
  text-align: center;
  justify-content: center;
  padding: 10px;
  box-shadow: 2px 2px 3px yellow, -2px -2px 3px yellowgreen;
  border-radius: 20px;
}
.mover-login{
  border: 1px solid red;
  margin: 50px;
  width: 25vw;
  height: auto;
  text-align: center;
  justify-content: center;
  padding: 10px;
  box-shadow: 2px 2px 7px yellow, -2px -2px 7px yellowgreen;
  border-radius: 20px;
}
table{
  width: 100%;
}
td{
  padding: 5px;
  border-radius: 10px;
}
```

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# <mark>Output</mark>



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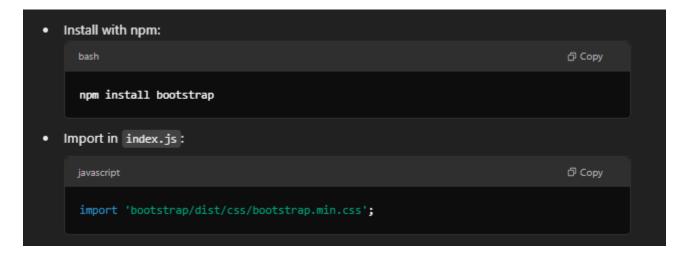
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## **VIVA QUESTIONS:**

1. How do you add Material-UI to a React project?



- 2. Describe the Box component in Material-UI and its use cases.
  - Box is a wrapper component for layout and styling, offering easy control over spacing, alignment, and positioning using the sx prop.
  - Use cases: Layout, responsive design, applying padding/margins.
- 3. How do you add Bootstrap to a React project?



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- 4. What are the main differences between Bootstrap and Material-UI?
  - Bootstrap: Simple, flexible grid and utility classes, minimal design.
  - Material-UI: Material Design, rich components, and deep customization with themes.
- 5. What is React-Bootstrap, and how does it differ from regular Bootstrap?
  - · React-Bootstrap: Bootstrap components as React components, no jQuery.
  - · It integrates better with React's declarative style and avoids direct DOM manipulation.

# (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:

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