

React MUI (Material UI)

React MUI (Material-UI)

- React MUI (Material-UI) is a popular React UI framework that implements Google's Material Design principles.
- It provides a comprehensive set of components that are pre-styled and customizable, making it easier to build responsive, accessible, and aesthetically pleasing web applications.
- React MUI is a powerful and flexible UI framework that simplifies the process of building responsive and accessible web applications.
- By providing a comprehensive set of components and extensive customization options, MUI allows developers to create high-quality UIs that adhere to Material Design principles.

Key Features of React MUI

- 1. Component Library:** MUI offers a wide range of ready-to-use components, such as buttons, cards, grids, dialogs, and more, which adhere to Material Design guidelines.
- 2. Theming:** MUI allows for extensive theming and customization. You can create custom themes to match your application's branding and style.
- 3. Responsive Design:** MUI components are designed to be responsive by default, making it easier to build applications that work well on various screen sizes.
- 4. Accessibility:** MUI places a strong emphasis on accessibility, ensuring that components are built to meet ARIA standards and can be used by people with disabilities.
- 5. Integration with Other Libraries:** MUI can be easily integrated with other libraries and frameworks, such as Redux, Formik, and more, to enhance its functionality.

Install MUI

Open node.js command prompt

```
npm install @mui/material @emotion/react @emotion/styled
```

```
npx create-react-app my-app
```

```
cd my-app
```

In App.js

```
import React from 'react';
import { Button, Typography, Container, AppBar, Toolbar } from '@mui/material';

function App() {
  return (
    <div>
      <AppBar position="static">
        <Toolbar>
          <Typography variant="h6">
            My MUI App
          </Typography>
        </Toolbar>
      </AppBar>
    </div>
  );
}
```

In App.js

```
<Container>
  <Typography variant="h2" component="h1" gutterBottom>
    Welcome to React MUI
  </Typography>
  <Typography variant="body1" gutterBottom> →bottom margin
    This is a simple example demonstrating the use of Material-UI components.
  </Typography>
  <Button variant="contained" color="primary">
    Click Me
  </Button>
</Container>
</div>
);
} export default App;
```

-
1. **Importing Components:** The Button, Typography, Container, AppBar, and Toolbar components are imported from `@mui/material`.
 2. **AppBar and Toolbar:** These components are used to create a top navigation bar with a title.
 3. **Container:** This component is used to center and add padding to the content.
 4. **Typography:** This component is used for text elements, with variants like `h2` for headings and `body1` for regular text.
 5. **Button:** A styled button is created with the `variant="contained"` and `color="primary"` properties.

Customizing the Theme

1. You can customize the MUI theme to match your application's branding.
2. Here's an example of how to create a custom theme and apply it

Add in src/index.js

```
import React from 'react';
```

```
import ReactDOM from 'react-dom';
```

 → to load react resources

```
import { ThemeProvider, createTheme } from '@mui/material/styles';
```

```
import App from './App';
```

```
// Create a custom theme
```

```
const theme = createTheme({
```

```
  palette: {
```

```
    primary: {
```

```
      main: '#556cd6',
```

```
    },
```

```
    secondary: {
```

```
      main: '#19857b',
```

```
    },
```

```
  },
```

```
});
```

 → to apply color

Add in src/index.js

```
typography: {  
  h2: {  
    fontSize: 36,  
  },  
},  
});
```

```
ReactDOM.render(  
  <ThemeProvider theme={theme}>  
    <App />  
  </ThemeProvider>,  
  document.getElementById('root')  
);
```

-
1. **ThemeProvider and createTheme:** These functions from `@mui/material/styles` are used to create and apply a custom theme.
 2. **Custom Theme:** The `createTheme` function is used to define a custom theme, specifying primary and secondary colors, as well as custom typography settings.
 3. **Applying the Theme:** The `ThemeProvider` component is used to apply the custom theme to the entire application.

My MUI App

Welcome to React MUI

This is a simple example demonstrating the use of Material-UI components.

CLICK ME

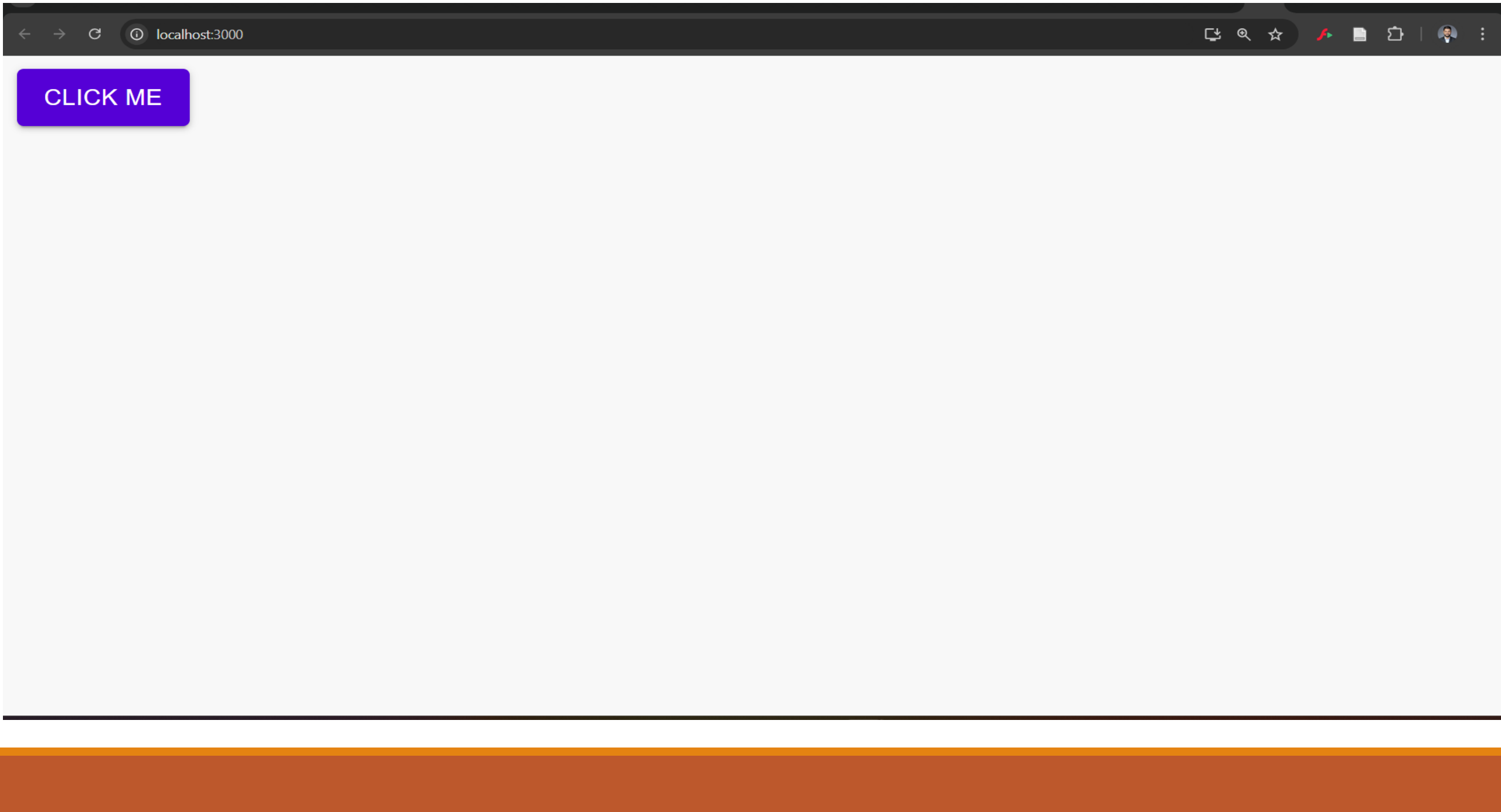
MUI Components - Button

[add the code in App.js](#)

```
import React from 'react';  
import Button from '@mui/material/Button';
```

```
function MyButton() {  
  return (  
    <Button variant="contained" color="primary">           →contained for most weightage  
      Click Me  
    </Button>  
  );  
}
```

```
export default MyButton;
```



CLICK ME

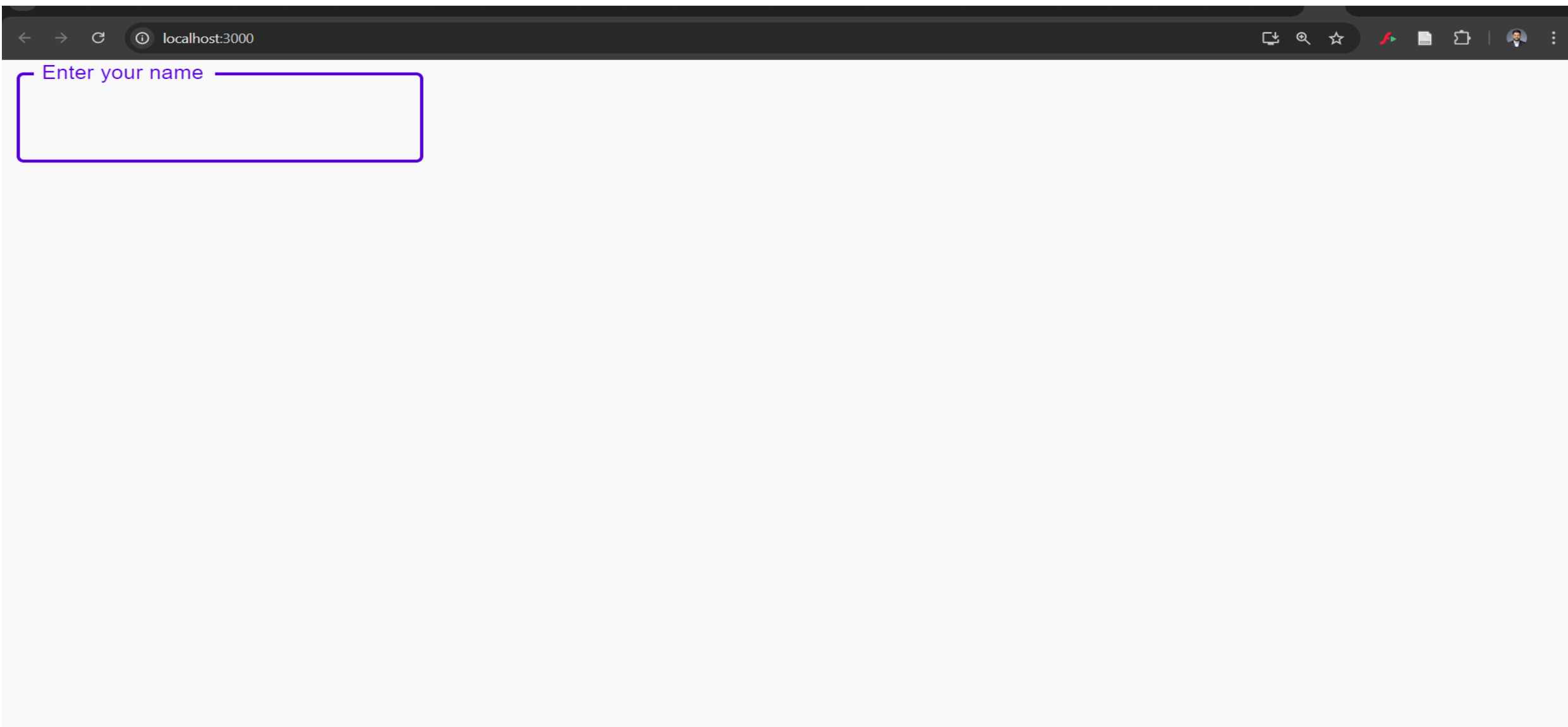
MUI Components - TextField

[add the code in App.js](#)

```
import React from 'react';
import TextField from '@mui/material/TextField';

function MyTextField() {
  return (
    <TextField label="Enter your name" variant="outlined" />
  );
}

export default MyTextField;
```



MUI Components - CheckBox

[add the code in App.js](#)

```
import React from 'react';
import Checkbox from '@mui/material/Checkbox';
import FormControlLabel from '@mui/material/FormControlLabel';

function MyCheckbox() {
  return (
    <FormControlLabel
      control={<Checkbox name="checkedA" />}
      label="Accept terms and conditions"
    />
  );
}

export default MyCheckbox;
```

☒ Accept terms and conditions

MUI Components - AppBar

add the code in App.js

```
import React from 'react';
import AppBar from '@mui/material/AppBar';
import Toolbar from '@mui/material/Toolbar';
import Typography from '@mui/material/Typography';

function MyAppBar() {
  return (
    <AppBar position="static">
      <Toolbar>
        <Typography variant="h6">
          My App
        </Typography>
      </Toolbar>
    </AppBar>
  );
}
export default MyAppBar;
```

My App

MUI Components - Card

add the code in App.js

```
import React from 'react';
import Card from '@mui/material/Card';
import CardContent from '@mui/material/CardContent';
import Typography from '@mui/material/Typography';

function MyCard() {
  return (
    <Card>
      <CardContent>
        <Typography variant="h5" component="div">
          Card Title
        </Typography>
        <Typography variant="body2" color="text.secondary">
          This is some card content.
        </Typography>
      </CardContent>
    </Card>
  );
}

export default MyCard;
```

Card Title

This is some card content.

MUI Components - Grid

add the code in App.js

```
import React from 'react';
import Grid from '@mui/material/Grid';

function MyGrid() {
  return (
    <Grid container spacing={3}>
      <Grid item xs={12} sm={6}>
        <div style={{ backgroundColor: 'lightblue', height: '100px' }}>Item 1</div>
      </Grid>
      <Grid item xs={12} sm={6}>
        <div style={{ backgroundColor: 'lightgreen', height: '100px' }}>Item 2</div>
      </Grid>
    </Grid>
  );
}
export default MyGrid;
```

Item 1

Item 2

MUI Components - Dialog

add the code in App.js

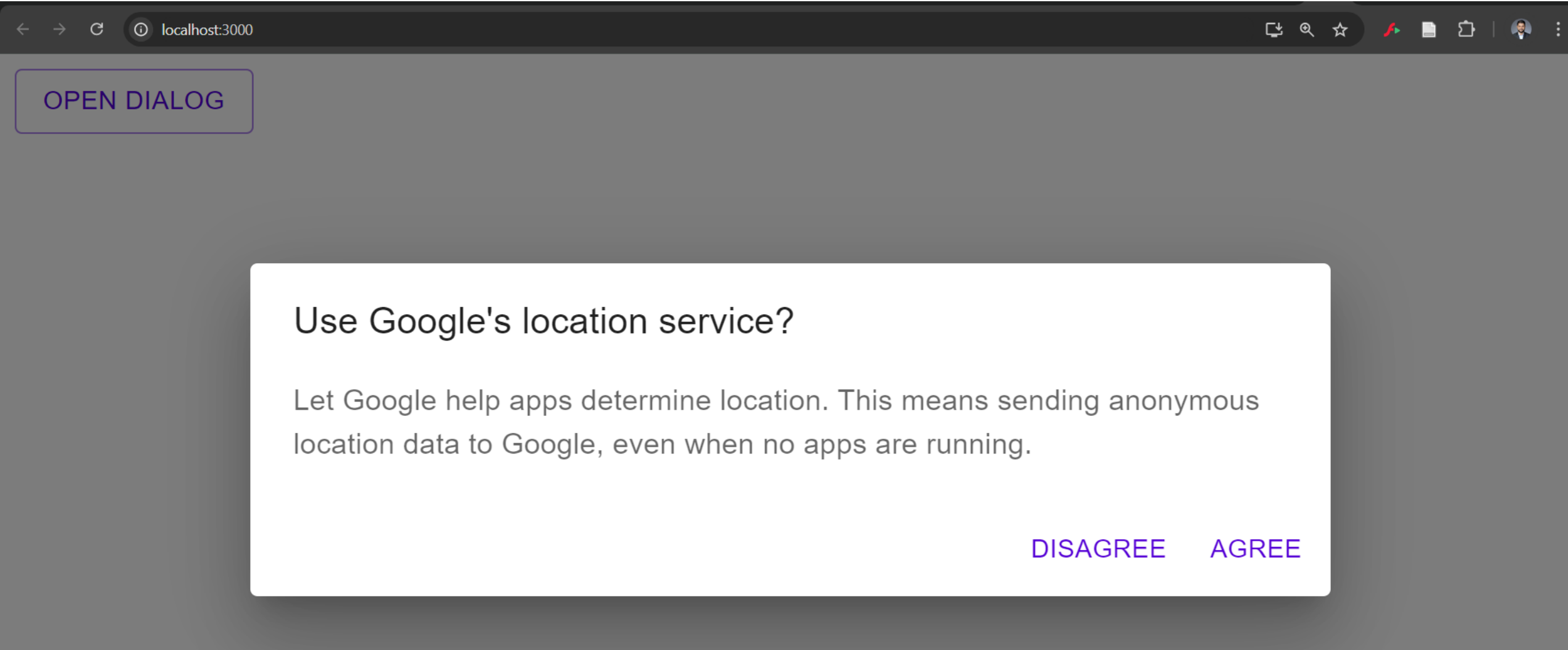
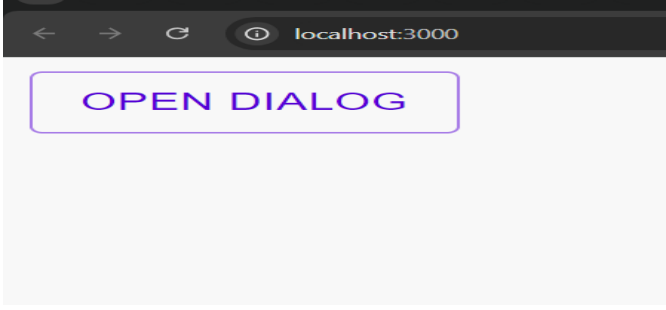
```
import React, { useState } from 'react';  
import Dialog from '@mui/material/Dialog';  
import DialogActions from '@mui/material/DialogActions';  
import DialogContent from '@mui/material/DialogContent';  
import DialogContentText from '@mui/material/DialogContentText';  
import DialogTitle from '@mui/material/DialogTitle';  
import Button from '@mui/material/Button';
```

```
function MyDialog() {  
  const [open, setOpen] = useState(false);  
  
  const handleClickOpen = () => {  
    setOpen(true);  
  };  
  
  const handleClose = () => {  
    setOpen(false);  
  };  
}
```

MUI Components - Dialog

add the code in App.js

```
return (  
  <div>  
    <Button variant="outlined" onClick={handleClickOpen}>  
      Open Dialog  
    </Button>  
    <Dialog open={open} onClose={handleClose}>  
      <DialogTitle>{'Use Google's location service?'}</DialogTitle>  
      <DialogContent>  
        <DialogContentText>  
          Let Google help apps determine location.  
        </DialogContentText>  
      </DialogContent>  
      <DialogActions>  
        <Button onClick={handleClose} color="primary">  
          Disagree  
        </Button>  
        <Button onClick={handleClose} color="primary" autoFocus>  
          Agree  
        </Button>  
      </DialogActions>  
    </Dialog>  
  </div>  
}  
export default MyDialog;
```



MUI Components - Snackbar

add the code in App.js

```
import React, { useState } from 'react';  
import Button from '@mui/material/Button';  
import Snackbar from '@mui/material/Snackbar';
```

```
function MySnackbar() {  
  const [open, setOpen] = useState(false);  
  
  const handleClick = () => {  
    setOpen(true);  
  };  
  
  const handleClose = (event, reason) => {  
    if (reason === 'clickaway') {  
      return;  
    }  
    setOpen(false);  
  };  
}
```

MUI Components - Snackbar

add the code in App.js

```
return (  
  <div>  
    <Button onClick={handleClick}>Show Snackbar</Button>  
    <Snackbar  
      open={open}  
      autoHideDuration={6000}  
      onClose={handleClose}  
      message="Note archived"  
    />  
  </div>  
);  
}  
  
export default MySnackbar;
```


MUI Components - icon

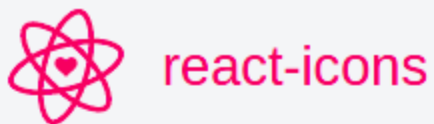
add the code in App.js

npm install react-icons

```
import React, { Component } from 'react';  
import { FaApple } from "react-icons/fa";
```

```
class Like extends Component {  
  render() {  
    return <FaApple/>  
  }  
}
```

```
export default Like;
```

Search Icons

Home

Ant Design Icons

Bootstrap Icons

BoxIcons

Devicons

Feather

Flat Color Icons

Font Awesome

Game Icons

Github Octicons icons

Font Awesome

License [CC BY 4.0 License](#)

Project <https://fontawesome.com/>

Import

```
import { IconName } from "react-icons/fa";
```

Icons



Fa500Px



FaAccessibleIcon



FaAccusoft



FaAcquisitionsIncorp



FaAdn



FaAdobe



FaAdversal



FaAffiliatetheme



FaAirbnb



FaAlgolia



FaAlipay



FaAmazonPay



FaAmazon



FaAmilia



FaAndroid



FaAngellist



FaAngrycreative



FaAngular



FaAppStore



FaAppStoreLos



FaApper



FaApplePay



FaApple



FaArtstation

MUI Components - List

add the code in App.js

```
import React from 'react';
import List from '@mui/material/List';
import ListItem from '@mui/material/ListItem';
import ListItemText from '@mui/material/ListItemText';


function MyList() {
  return (
    <List>
      <ListItem>
        <ListItemText primary="Item 1" />
      </ListItem>
      <ListItem>
        <ListItemText primary="Item 2" />
      </ListItem>
      <ListItem>
        <ListItemText primary="Item 3" />
      </ListItem>
    </List>
  );
}

export default MyList;
```

Item 1

Item 2

Item 3

A solid orange horizontal bar spanning the entire width of the page at the bottom.

MUI Components - Table

add the code in App.js

```
import React from 'react';
import Table from '@mui/material/Table';
import TableBody from '@mui/material/TableBody';
import TableCell from '@mui/material/TableCell';
import TableContainer from '@mui/material/TableContainer';
import TableHead from '@mui/material/TableHead';
import TableRow from '@mui/material/TableRow';
import Paper from '@mui/material/Paper';

function createData(name, calories, fat, carbs, protein) {
  return { name, calories, fat, carbs, protein };
}

const rows = [
  createData('Frozen yoghurt', 159, 6.0, 24, 4.0),
  createData('Ice cream sandwich', 237, 9.0, 37, 4.3),
  createData('Eclair', 262, 16.0, 24, 6.0),
];
```

MUI Components - Table

add the code in App.js

```
function MyTable() {  
  return (  
    <TableContainer component={Paper}>  
      <Table>  
        <TableHead>  
          <TableRow>  
            <TableCell>Dessert (100g serving)</TableCell>  
            <TableCell align="right">Calories</TableCell>  
            <TableCell align="right">Fat (g)</TableCell>  
            <TableCell align="right">Carbs (g)</TableCell>  
            <TableCell align="right">Protein (g)</TableCell>  
          </TableRow>  
        </TableHead>  
        <TableBody>  
          {rows.map((row) => (  
            <TableRow key={row.name}>  
              <TableCell component="th" scope="row">  
                {row.name}
```

MUI Components - Table

add the code in App.js

```
</TableCell>
```

```
    <TableCell align="right">{row.calories}</TableCell>
```

```
    <TableCell align="right">{row.fat}</TableCell>
```

```
    <TableCell align="right">{row.carbs}</TableCell>
```

```
    <TableCell align="right">{row.protein}</TableCell>
```

```
  </TableRow>
```

```
  )))
```

```
</TableBody>
```

```
</Table>
```

```
</TableContainer>
```

```
);
```

```
}
```

```
export default MyTable;
```

MUI Components - Table

add the code in App.js

Table components from Material-UI: These imports provide various elements needed to build a table using Material-UI's design library:

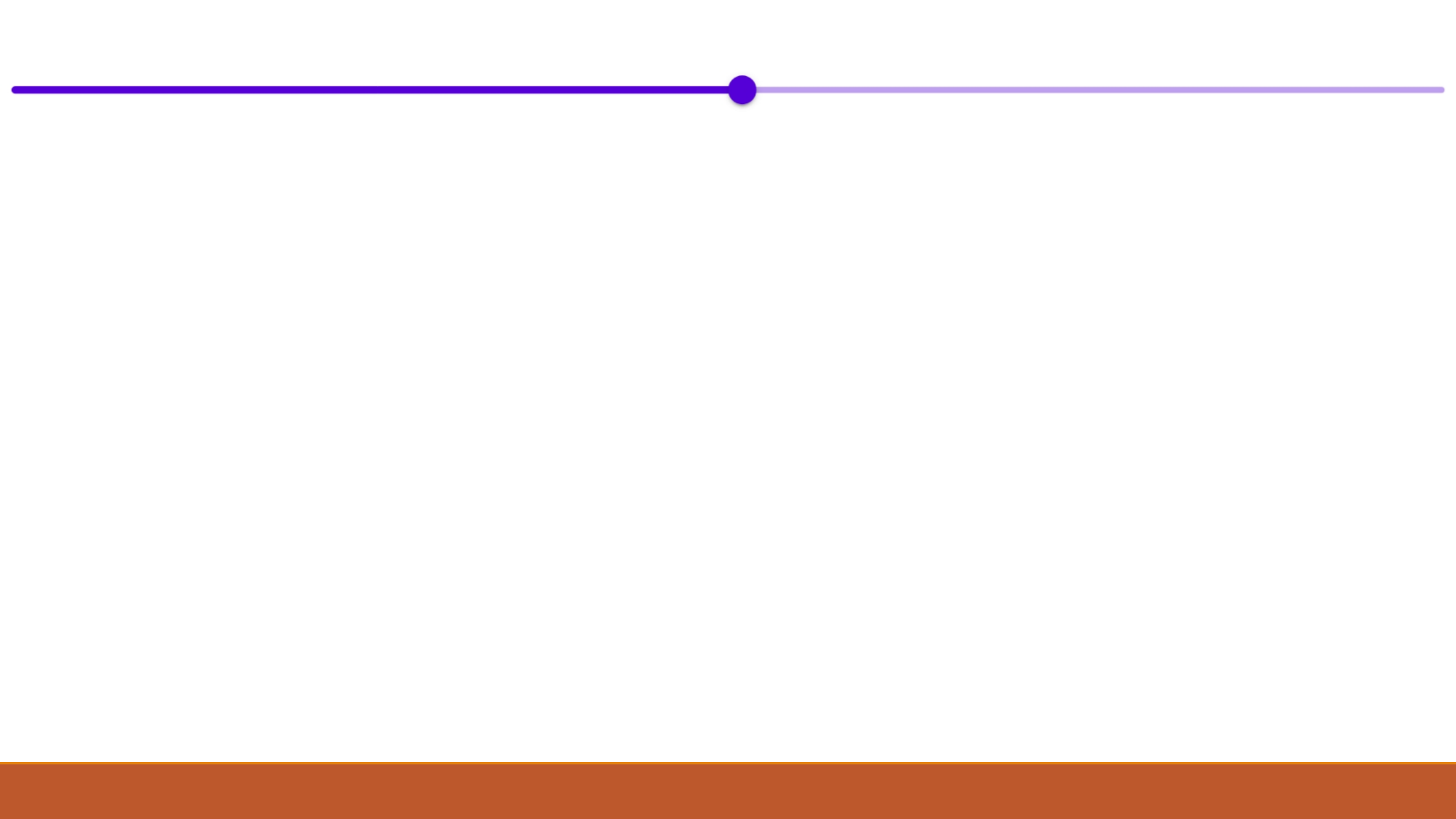
- **Table:** The main container for the table.
- **TableBody:** Holds the table rows that contain data.
- **TableCell:** Represents individual cells in the table.
- **TableContainer:** Provides a container for the table, and in this case, it's wrapped with the Paper component for a Material-UI style.
- **TableHead:** Defines the header row of the table.
- **TableRow:** Represents a row in the table.
- **Paper:** A Material-UI component used to create a raised surface effect for the table container.

Dessert (100g serving)	Calories	Fat (g)	Carbs (g)	Protein (g)
Frozen yoghurt	159	6	24	4
Ice cream sandwich	237	9	37	4.3
Eclair	262	16	24	6

MUI Components - Slider

add the code in App.js

```
import React from 'react';  
import Slider from '@mui/material/Slider';  
  
function MySlider() {  
  return (  
    <Slider defaultValue={50} aria-labelledby="continuous-slider" />  
  );  
}  
  
export default MySlider;
```



MUI Components - Switch

add the code in App.js

```
import React from 'react';  
import Switch from '@mui/material/Switch';  
import FormControlLabel from '@mui/material/FormControlLabel';  
  
function MySwitch() {  
  return (  
    <FormControlLabel  
      control={<Switch name="checkedA" />}  
      label="Switch me"  
    />  
  );  
}  
  
export default MySwitch;
```

☒ Switch me

MUI Components - Avatar

add the code in App.js

```
import React from 'react';  
import Avatar from '@mui/material/Avatar';  
  
function MyAvatar() {  
  return (  
    <Avatar alt="Hi" src="/static/images/avatar/1.jpg" />  
  );  
}  
  
export default MyAvatar;
```

MUI Components - Avatar

Avatar component is used to display images, icons, or text in a circular or square format, commonly for representing user profiles.

MUI Components - Badge

add the code in App.js

```
import React from 'react';
import Badge from '@mui/material/Badge';
import MailIcon from '@mui/icons-material/Mail';

function MyBadge() {
  return (
    <Badge badgeContent={4} color="primary">
      <MailIcon />
    </Badge>
  );
}
export default MyBadge;
```




MUI Components - CircularProgress

add the code in App.js

```
import React from 'react';  
import CircularProgress from '@mui/material/CircularProgress';  
  
function MyCircularProgress() {  
  return (  
    <CircularProgress />  
  );  
}  
  
export default MyCircularProgress;
```



MUI Components - Drawer

add the code in App.js

```
import React, { useState } from 'react';
import Drawer from '@mui/material/Drawer';
import Button from '@mui/material/Button';
import List from '@mui/material/List';
import ListItem from '@mui/material/ListItem';
import ListItemText from

 '@mui/material/ListItemText';

function MyDrawer() {
  const [open, setOpen] = useState(false);

  const toggleDrawer = (open) => (event) => {
    if (event.type === 'keydown' && (event.key === 'Tab' || event.key === 'Shift')) {
      return;
    }
    setOpen(open);
  };
};
```

MUI Components - Drawer

add the code in App.js

```
return (  
  <div>  
    <Button onClick={toggleDrawer(true)}>Open Drawer</Button>  
    <Drawer open={open} onClose={toggleDrawer(false)}>  
      <List>  
        <ListItem button>  
          <ListItemText primary="Item 1" />  
        </ListItem>  
        <ListItem button>  
          <ListItemText primary="Item 2" />  
        </ListItem>  
      </List>  
    </Drawer>  
  </div>  
}  
export default MyDrawer;
```

OPEN DRAWER

Item 1
DRAWER

Item 2

MUI Components - Tabs

add the code in App.js

```
import React, { useState } from 'react';
import Tabs from '@mui/material/Tabs';
import Tab from '@mui/material/Tab';
import Typography from '@mui/material/Typography';
import Box from '@mui/material/Box';
```

```
function TabPanel(props) {
  const { children, value, index, ...other } = props;
```

```
  return (
    <div
      role="tabpanel"
      hidden={value !== index}
      id={`simple-tabpanel-${index}`}
      aria-labelledby={`simple-tab-${index}`}
      {...other}
    >
      {value === index && (
        <Box p={3}>
          <Typography>{children}</Typography>
        </Box>
      )}
    </div>
  );
}
```

MUI Components - Tabs

add the code in App.js

```
function MyTabs() {  
  const [value, setValue] = useState(0);  
  
  const handleChange = (event, newValue) => {  
    setValue(newValue);  
  };  
  
  return (  
    <div>  
      <Tabs value={value} onChange={handleChange}>  
        <Tab label="Item One" />  
        <Tab label="Item Two" />  
        <Tab label="Item Three" />  
      </Tabs>  
      <TabPanel value={value} index={0}>  
        Item One  
      </TabPanel>  
      <TabPanel value={value} index={1}>  
        Item Two  
      </TabPanel>  
      <TabPanel value={value} index={2}>  
        Item Three  
      </TabPanel>  
    </div>  
  );  
}  
export default MyTabs;
```


ITEM ONE

ITEM TWO

ITEM THREE

Item One

MUI Components - Tooltip

add the code in App.js

```
import React from 'react';  
import Tooltip from '@mui/material/Tooltip';  
import Button from '@mui/material/Button';  
  
function MyTooltip() {  
  return (  
    <Tooltip title="Delete">  
      <Button>Delete</Button>  
    </Tooltip>  
  );  
}  
  
export default MyTooltip;
```

DELETE

Delete

MUI Components - Accordion

add the code in App.js

```
import React from 'react';
import { Accordion, AccordionSummary, AccordionDetails, Typography } from '@mui/material';
import ExpandMoreIcon from '@mui/icons-material/ExpandMore';

function MyAccordion() {
  return (
    <Accordion>
      <AccordionSummary expandIcon={<ExpandMoreIcon />}>
        <Typography>Accordion Title</Typography>
      </AccordionSummary>
      <AccordionDetails>
        <Typography>
          Accordion Content
        </Typography>
      </AccordionDetails>
    </Accordion>
  );
}

export default MyAccordion;
```

Accordion Title



Accordion Title



Accordion Content

MUI Components - Alert

add the code in App.js

```
import React from 'react';
import { Alert } from '@mui/material';

function MyAlert() {
  return <Alert severity="warning">This is a warning alert!</Alert>;
}

export default MyAlert;
```



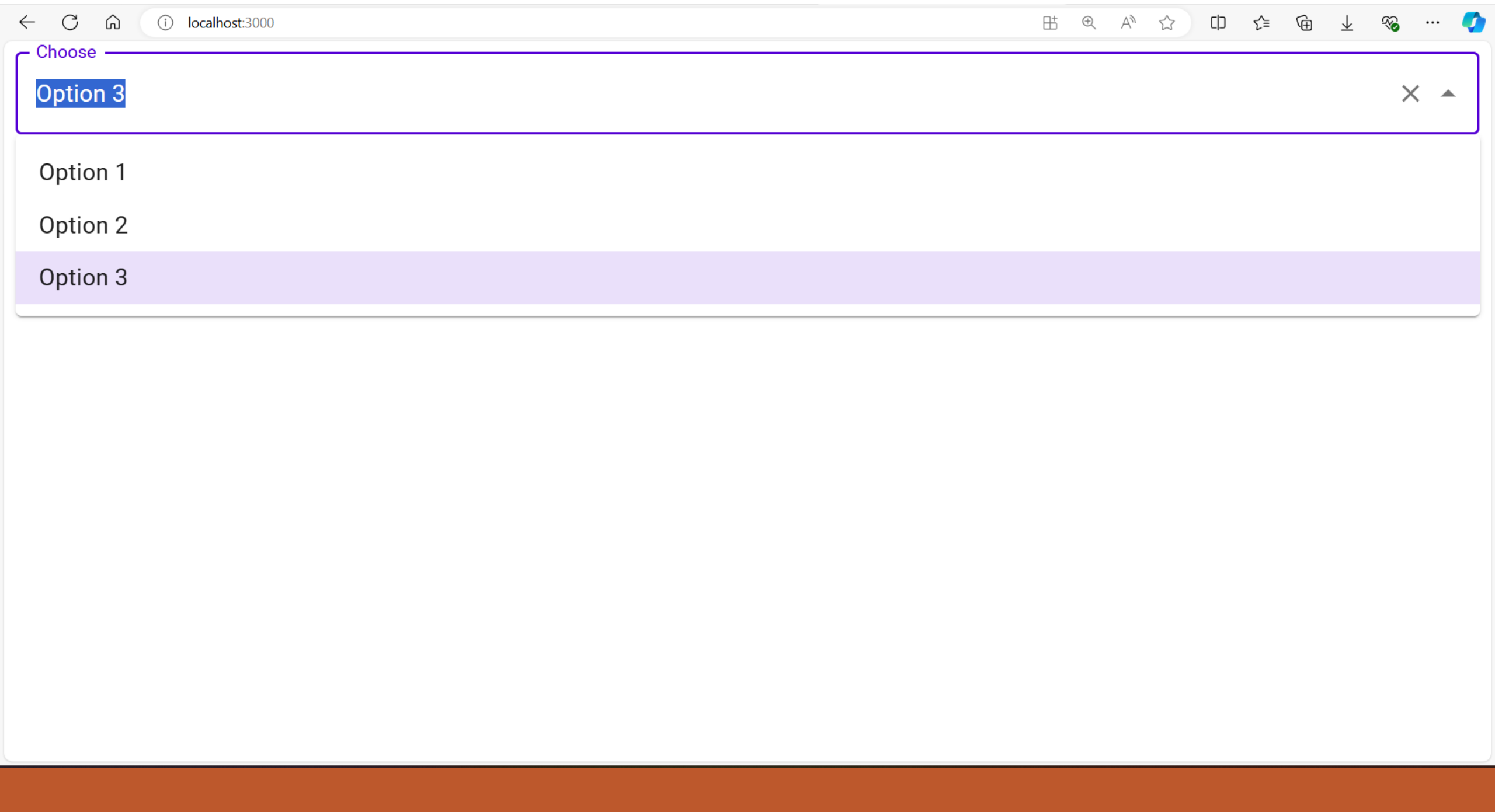
This is a warning alert!

MUI Components - Autocomplete

add the code in App.js

```
import React from 'react';
import { Breadcrumbs, Link, Typography } from '@mui/material';

function MyBreadcrumbs() {
  return (
    <Breadcrumbs aria-label="breadcrumb">
      <Link color="inherit" href="/">
        Home
      </Link>
      <Link color="inherit" href="/getting-started/installation/">
        Installation
      </Link>
      <Typography color="textPrimary">Breadcrumbs</Typography>
    </Breadcrumbs>
  );
}
export default MyBreadcrumbs;
```



Choose

Option 3



Option 1

Option 2

Option 3

MUI Components - Breadcrumbs

A breadcrumbs is a list of links that help visualize a page's location within a site's hierarchical structure, it allows navigation up to any of the ancestors.

MUI Components - Breadcrumbs

add the code in App.js

```
import React from 'react';  
import { Breadcrumbs, Link, Typography } from '@mui/material';
```

```
function MyBreadcrumbs() {  
  return (  
    <Breadcrumbs aria-label="breadcrumb">  
      <Link color="inherit" href="/">  
        Home  
      </Link>  
      <Link color="inherit" href="/getting-started/installation/">  
        Installation  
      </Link>  
      <Typography color="textPrimary">Breadcrumbs</Typography>  
    </Breadcrumbs>  
  );  
}  
export default MyBreadcrumbs;
```



MUI Components - ButtonGroup

add the code in App.js

```
import React from 'react';  
import { Button, ButtonGroup } from '@mui/material';
```

```
function MyButtonGroup() {  
  return (  
    <ButtonGroup variant="contained" color="primary">  
      <Button>One</Button>  
      <Button>Two</Button>  
      <Button>Three</Button>  
    </ButtonGroup>  
  );  
}
```

```
export default MyButtonGroup;
```

ONE

TWO

THREE

MUI Components - Chip

- ❑ **Chips are compact elements that represent an input, attribute, or action.**
- ❑ **Chips allow users to enter information, make selections, filter content, or trigger actions.**

MUI Components - Chip

add the code in App.js

```
import React from 'react';  
import { Chip } from '@mui/material';  
  
function MyChip() {  
  return <Chip label="Chip Component" />;  
}  
  
export default MyChip;
```

Chip Component

MUI Components - Divider

add the code in App.js

```
import React from 'react';  
import { Divider } from '@mui/material';
```

```
function MyDivider() {  
  return (  
    <div>  
      <p>Content above the divider</p>  
      <Divider />  
      <p>Content below the divider</p>  
    </div>  
  );  
}
```

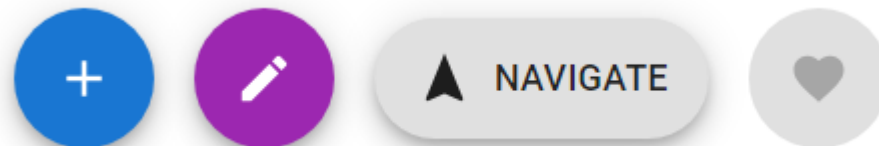
```
export default MyDivider;
```

Content above the divider

Content below the divider

MUI Components - Fab (Floating Action Button)

- ❑ A floating action button appears in front of all screen content, typically as a circular shape with an icon in its center.
- ❑ FABs come in two types: regular, and extended.
- ❑ Only use a FAB if it is the most suitable way to present a screen's primary action.
- ❑ Only one component is recommended per screen to represent the most common action.



MUI Components - Fab (Floating Action Button)

add the code in App.js

```
import React from 'react';  
import { Fab } from '@mui/material';  
import AddIcon from '@mui/icons-material/Add';  
  
function MyFab() {  
  return <Fab color="primary" aria-label="add"><AddIcon /></Fab>;  
}  
  
export default MyFab;
```


MUI Components - LinearProgress

add the code in App.js

```
import React from 'react';  
import { LinearProgress } from '@mui/material';  
  
function MyLinearProgress() {  
  return <LinearProgress />;  
}  
  
export default MyLinearProgress;
```

MUI Components - Menu

[add the code in App.js](#)

```
import React, { useState } from 'react';  
import { Menu, MenuItem, Button } from '@mui/material';  
  
function MyMenu() {  
  const [anchorEl, setAnchorEl] = useState(null);  
  
  const handleClick = (event) => {  
    setAnchorEl(event.currentTarget);  
  };  
  
  const handleClose = () => {  
    setAnchorEl(null);  
  };  
}
```

MUI Components - Menu

add the code in App.js

```

return (
  <div>
    <Button aria-controls="simple-menu" aria-haspopup="true" onClick={handleClick}>
      Open Menu
    </Button>
    <Menu
      id="simple-menu"
      anchorEl={anchorEl}
      keepMounted
      open={Boolean(anchorEl)}
      onClose={handleClose}
    >
      <MenuItem onClick={handleClose}>Profile</MenuItem>
      <MenuItem onClick={handleClose}>My account</MenuItem>
      <MenuItem onClick={handleClose}>Logout</MenuItem>
    </Menu>
  </div>
);
}

export default MyMenu;

```

OPEN MENU

- Profile
- My account
- Logout

MUI Components - Pagination

add the code in App.js

```
import React from 'react';  
import { Pagination } from '@mui/material';  
  
function MyPagination() {  
  return <Pagination count={10} color='primary' />;  
}  
  
export default MyPagination;
```

MUI Components - Popover

add the code in App.js

```
import React, { useState } from 'react';  
import { Popover, Button, Typography } from '@mui/material';
```

```
function MyPopover() {  
  const [anchorEl, setAnchorEl] = useState(null);  
  
  const handleClick = (event) => {  
    setAnchorEl(event.currentTarget);  
  };  
  
  const handleClose = () => {  
    setAnchorEl(null);  
  };  
  
  const open = Boolean(anchorEl);  
  const id = open ? 'simple-popover' : undefined;
```

add the code in App.js

```
export default MyPopover;
;
```


OPEN POPOVER

The content of the Popover.

MUI Components - Rating

add the code in App.js

```
import React from 'react';
```

```
import { Rating } from '@mui/material';
```

```
function MyRating() {
```

```
  return <Rating name="simple-controlled" value={3} />;
```

```
}
```

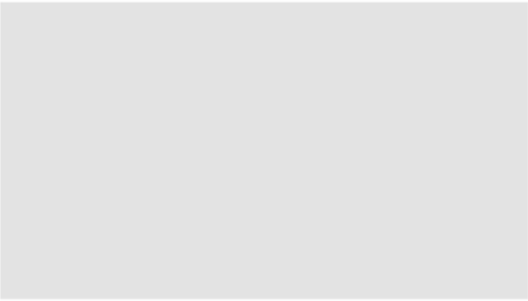
```
export default MyRating;
```



MUI Components - Skeleton

add the code in App.js

```
import React from 'react';  
import { Skeleton } from '@mui/material';  
  
function MySkeleton() {  
  return <Skeleton variant='rectangular' width={210} height={118} />;  
}  
  
export default MySkeleton;
```



MUI Components - SpeedDial

add the code in App.js

```
import React from 'react';  
import { SpeedDial, SpeedDialIcon, SpeedDialAction } from '@mui/material';  
import FileCopyIcon from '@mui/icons-material/FileCopyOutlined';  
import SaveIcon from '@mui/icons-material/Save';  
import PrintIcon from '@mui/icons-material/Print';  
import ShareIcon from '@mui/icons-material/Share';  
  
function MySpeedDial() {  
  return (  
    <SpeedDial  
      ariaLabel="SpeedDial example"  
      icon={<SpeedDialIcon />}  
      direction="up"  
    >
```

MUI Components - SpeedDial

add the code in App.js

```
<SpeedDialAction icon={<FileCopyIcon />} tooltipTitle="Copy" />  
  <SpeedDialAction icon={<SaveIcon />} tooltipTitle="Save" />  
  <SpeedDialAction icon={<PrintIcon />} tooltipTitle="Print" />  
  <SpeedDialAction icon={<ShareIcon />} tooltipTitle="Share" />  
  </SpeedDial>  
  );  
  }  
export default MySpeedDial;
```

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