

DAY 4
CLASSWORK

1. Using React and Material-UI, create a form that consists of a TextField for entering a name, an Autocomplete input for selecting a favorite fruit from a list of options (Apple, Banana, Cherry, Durian, Elderberry), and a submit button. When the form is submitted, display a message that greets the student by name and states their favorite fruit. The message should read: 'Hello, [name]! Your favorite fruit is [fruit].'

CODE:

```
import React, { useState } from 'react';
import TextField from '@material-ui/core/TextField';
import Autocomplete from '@material-ui/lab/Autocomplete';
import Button from '@material-ui/core/Button';

const fruits = ['Apple', 'Banana', 'Cherry', 'Durian', 'Elderberry'];

const FruitSurvey = () => {
  const [formData, setFormData] = useState({
    name: '',
    favoriteFruit: null,
  });

  const handleNameChange = (e) => {
    setFormData({
      ...formData,
      name: e.target.value,
    });
  };

  const handleFruitChange = (_, value) => {
    setFormData({
      ...formData,
      favoriteFruit: value,
    });
  };
};
```

```
});  
};
```

```
const handleSubmit = (e) => {  
  e.preventDefault();  
  if (formData.name && formData.favoriteFruit) {  
    const message = `Hello, ${formData.name}! Your favorite fruit is  
    ${formData.favoriteFruit}.`;   
    console.log(message);  
    // You can display the message in your UI or take further actions.  
  }  
};
```

```
return (  
  <form onSubmit={handleSubmit}>  
    <div>  
      <TextField  
        label="Name"  
        data-testid="name"  
        value={formData.name}  
        onChange={handleNameChange}  
      />  
    </div>  
    <div>  
      <Autocomplete  
        options={fruits}  
        getOptionLabel={(option) => option}  
        renderInput={({params) => (  
          <TextField  
            {...params}  
            label="Choose a fruit"  
            data-testid="autocomplete"  
          />  
        )}  
        value={formData.favoriteFruit}  
        onChange={handleFruitChange}  
      />  
    </div>  
  )
```

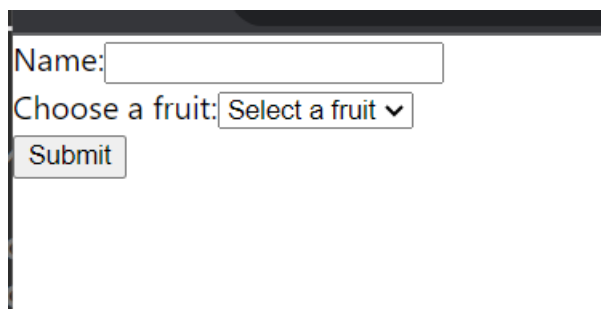
```

    </div>
    <div>
      <Button type="submit" variant="contained" color="primary"
data-testid="button">
        Submit
      </Button>
    </div>
  </form>
);
};

```

export default FruitSurvey;

OUTPUT:



The screenshot shows a web form with three elements: a text input field labeled 'Name:', a dropdown menu labeled 'Choose a fruit:' with a downward arrow and the text 'Select a fruit', and a button labeled 'Submit'.

2. Using React and Material UI, create a form that consists of a TextField for entering a name, an Autocomplete input for selecting a favorite fruit from a list of options

CODE:

```
import React, { useState } from 'react';
```

```
const fruits = ['Apple', 'Banana', 'Cherry', 'Durian', 'Elderberry'];
```

```
const FruitSurvey = () => {
```

```
const [formData, setFormData] = useState({  
  name: "",  
  favoriteFruit: "",  
});
```

```
const handleNameChange = (e) => {  
  setFormData({  
    ...formData,  
    name: e.target.value,  
  });  
};
```

```
const handleFruitChange = (e) => {  
  setFormData({  
    ...formData,  
    favoriteFruit: e.target.value,  
  });  
};
```

```
const handleSubmit = (e) => {  
  e.preventDefault();  
  if (formData.name && formData.favoriteFruit) {  
    const message = `Hello, ${formData.name}! Your favorite fruit is  
    ${formData.favoriteFruit}.`;  
    alert(message); // You can display the message in your UI or take  
    further actions.  
  }  
}
```

```
};
```

```
return (
```

```
<form onSubmit={handleSubmit}>
```

```
<div>
```

```
<label>
```

```
  Name:
```

```
<input
```

```
  type="text"
```

```
  value={formData.name}
```

```
  onChange={handleNameChange}
```

```
  placeholder="Enter your name"
```

```
</label>
```

```
</div>
```

```
<div>
```

```
<label>
```

```
  Choose a fruit:
```

```
<select
```

```
  value={formData.favoriteFruit}
```

```
  onChange={handleFruitChange}
```

```
>
```

```
<option value="" disabled>Select a fruit</option>
```

```
{fruits.map((fruit) => (
```

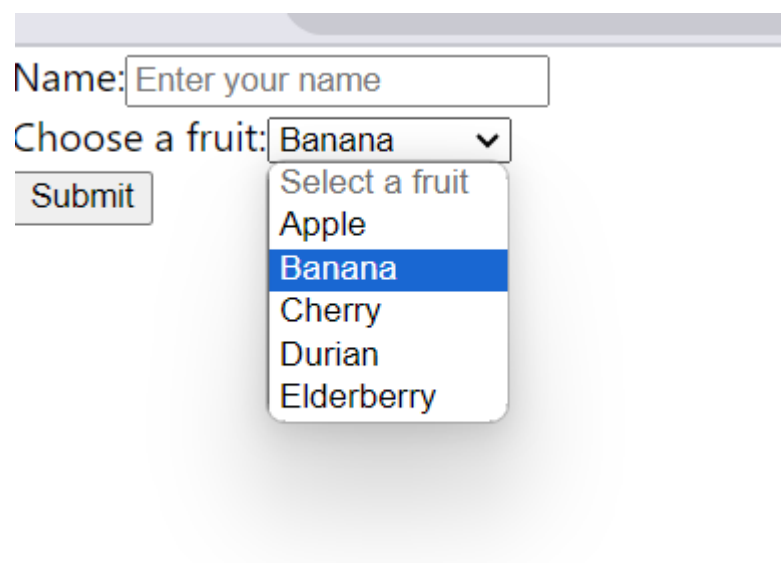
```
<option key={fruit} value={fruit}>
```

```
  {fruit}
```

```
        </option>
    )})
</select>
</label>
</div>
<div>
    <button type="submit">
        Submit
    </button>
</div>
</form>
);
};
```

```
export default FruitSurvey;
```

OUTPUT:



The screenshot shows a web form with a light gray header bar. Below the header, there is a text input field labeled "Name:" with the placeholder text "Enter your name". Below this is a dropdown menu labeled "Choose a fruit:" with "Banana" selected. To the left of the dropdown is a "Submit" button. The dropdown menu is open, showing a list of fruit options: "Select a fruit", "Apple", "Banana" (highlighted in blue), "Cherry", "Durian", and "Elderberry".