Module 2: Components and Styling the Application Layout

Demo Document 4

edureka!

Displaying Errors Using React Forms

Step 1: Start building the application using: ***using create-react-app reactproject1***

Step 2: Change the location and navigate to unmount directory using: ***cd reactproject1***

Step 3: Write the below code into index.js file as shown below:

```
import React from 'react';
import ReactDOM from 'react-dom';
import Form from './App.js';


ReactDOM.render(<Form/>, document.getElementById('root'));
```

Step 4: In app.js file start the application code, ***Import*** the required library to execute the application.

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

Step 5: Create a ***class-based component*** using constructor and define the form input fields.

```
class Form extends React.Component {
    constructor(props) {
      super(props);
      this.state = {
        username: '',
        roll_no: null,
        errormessage: ''
      };
    }
```
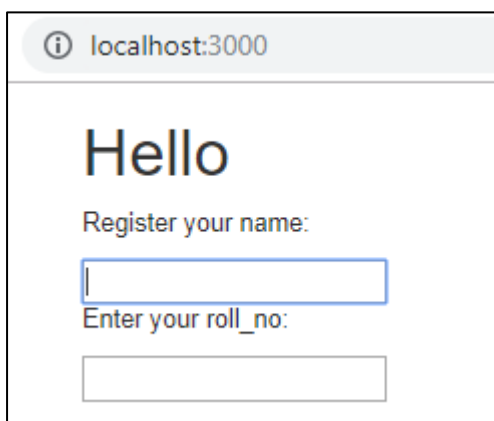
Step 6: Define an ***event handler*** to manage the state changes. In this section we will add the ***error message*** to be displayed.

```
    myChangeHandler = (event) => {

    let nam = event.target.name;
    let val = event.target.value;
    let err = '';
    if (nam === "roll_no") {
      if (val !="" && !Number(val)) {
        err = <strong>Your roll_no must be a number</strong>;
      }
    }
    this.setState({errormessage: err});
    this.setState({[nam]: val});
  }
```

Step 7: Define a *render() function*. Here we will perform the *data binding* to display the props on the screen.

```
    render() {
      return (
        <form>

        // displays the Header with the entered name
        <h1>Hello {this.state.username} </h1>
        <p>Register your name:</p>
        <input
          type='text' //form type
          name='username'
          onChange={this.myChangeHandler}
        />

        // Accepts the roll_no as an input and displays it
        <p>Enter your roll_no:</p>
        <input
          type='text' //form type
          name='roll_no'
          onChange={this.myChangeHandler}
        />

        // Displays error message if input is not a number
        {this.state.errormessage}
        </form>
      );
    }
}

export default Form
```

Step 11: Save your application code and start it using *npm start*. Check its working at localhost: 3000.
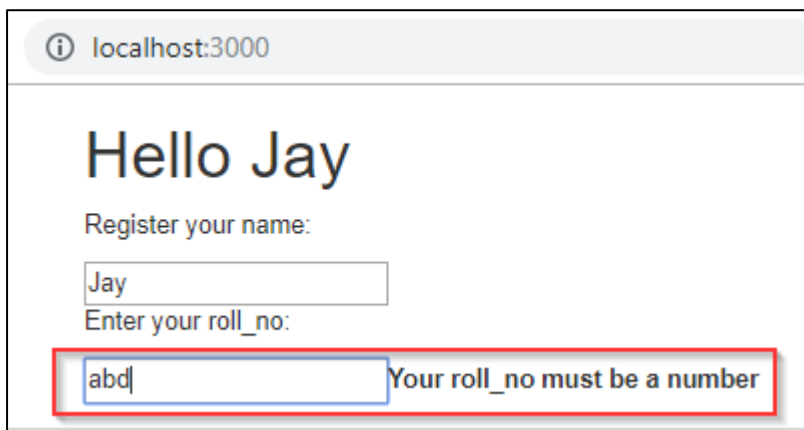

ⓘ localhost:3000

Hello

Register your name:

Enter your roll_no:

Step 11: Register your *name and roll_no*.

If you provide the *wrong input values*, the form will display the *error message.*

Conclusion:

We have successfully displayed the error messages via React forms on entering invalid input.