

CREATE REACT FORM

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: ''
    };
  }
}
```

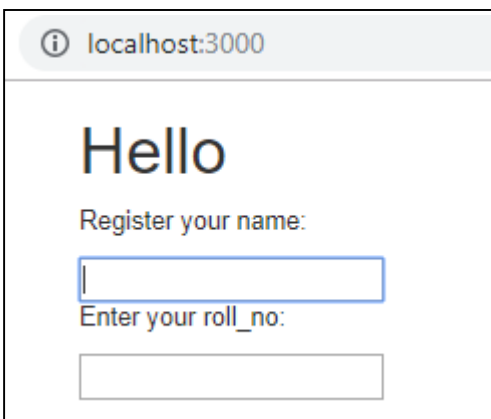
Step 6: Define an **event handler** to manage the state changes. In this section we will add the **error message** to be displayed.

```
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.



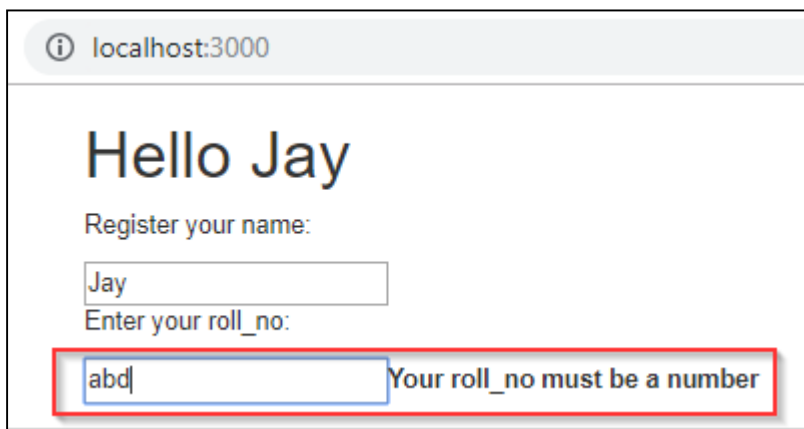
The screenshot shows a web browser window with the address bar displaying 'localhost:3000'. The page content includes a large 'Hello' heading, followed by the text 'Register your name:' and an empty text input field. Below this, the text 'Enter your roll_no:' is displayed with another empty text input field.

Step 11: Register your *name and roll_no*.



A browser window titled 'localhost:3000' displays a form. At the top, it says 'Hello Jay' where 'Jay' is highlighted with a red box. Below this, the text 'Register your name:' is followed by a text input field containing 'Jay', which is also highlighted with a red box. Underneath, the text 'Enter your roll_no:' is followed by a text input field containing '24', which is highlighted with a red box.

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



A browser window titled 'localhost:3000' displays the same form. The text 'Hello Jay' is shown. Below 'Register your name:', the text input field contains 'Jay'. Underneath, the text 'Enter your roll_no:' is followed by a text input field containing 'abd'. To the right of this field, an error message 'Your roll_no must be a number' is displayed. Both the input field and the error message are highlighted with a red box.

Conclusion:

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