

16.mailregisterapp

Objectives

- Explain React Forms validation
- Identify the differences between React Form and HTML Form
- Explain about controlled components
- Identify various React Form input controls
- Explain how to handle React Forms
- Explain about submitting forms in React

In this hands-on lab, you will learn how to:

- Implement React forms validation
- Use various input controls like textbox, button and textarea

Prerequisites

The following is required to complete this hands-on lab:

- Node.js
- NPM
- Visual Studio Code

Notes

Estimated time to complete this lab: 60 minutes.

Create a React App named “mailregisterapp” which will have a component named “register.js”. Create a form which accepts the name, email and password and validate the fields as per the following:

1. Name should have atleast 5 characters
2. Email should have @ and .
3. Password should have atleast 8 characters.

Ensure that validations are implemented through eventhandle and eventsubmit of a form.

CODE:

App.js

```
import React from 'react';
import Register from './components/Register';

function App() {
  return (
    <div className="App">
      <Register />
    </div>
  );
}

export default App;
```

Register.js

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

function Register() {
  const [formData, setFormData] = useState({
    name: "",
    email: "",
    password: "",
  });

  const [errors, setErrors] = useState({});

  const validate = () => {
    const tempErrors = {};

    if (formData.name.length < 5) {
      tempErrors.name = 'Name should be at least 5 characters long.';
    }

    if (!formData.email.includes('@') || !formData.email.includes('.')) {
      tempErrors.email = 'Email must contain "@" and "."';
    }

    if (formData.password.length < 8) {
      tempErrors.password = 'Password should be at least 8 characters long.';
    }
  }
}
```

```
}
```

```
setErrors(tempErrors);
```

```
return Object.keys(tempErrors).length === 0;
```

```
};
```

```
const handleChange = (e) => {
```

```
  const { name, value } = e.target;
```

```
  setFormData({
```

```
    ...formData,
```

```
    [name]: value
```

```
  });
```

```
};
```

```
const handleSubmit = (e) => {
```

```
  e.preventDefault();
```

```
  if (validate()) {
```

```
    alert(`Registration successful!\nName: ${formData.name}\nEmail: ${formData.email}`);
```

```
    setFormData({ name: "", email: "", password: "" });
```

```
    setErrors({});
```

```
  }
```

```
};
```

```
return (  
  <div style={{ padding: '20px', fontFamily: 'Arial' }}>  
    <h2 style={{ color: 'navy' }}>Mail Register Form</h2>  
    <form onSubmit={handleSubmit}>  
      <div>  
        <label>Name:</label><br />  
        <input  
          type="text"  
          name="name"  
          value={formData.name}  
          onChange={handleChange}  
          required  
        /><br />  
        <span style={{ color: 'red' }}>{errors.name}</span>  
      </div>  
      <br />  
      <div>  
        <label>Email:</label><br />  
        <input  
          type="text"  
          name="email"  
          value={formData.email}  
          onChange={handleChange}  
          required
```

```
    /><br />

    <span style={{ color: 'red' }}>{errors.email}</span>

  </div>

  <br />

  <div>

    <label>Password:</label><br />

    <input

      type="password"

      name="password"

      value={formData.password}

      onChange={handleChange}

      required

    /><br />

    <span style={{ color: 'red' }}>{errors.password}</span>

  </div>

  <br />

  <button type="submit">Register</button>

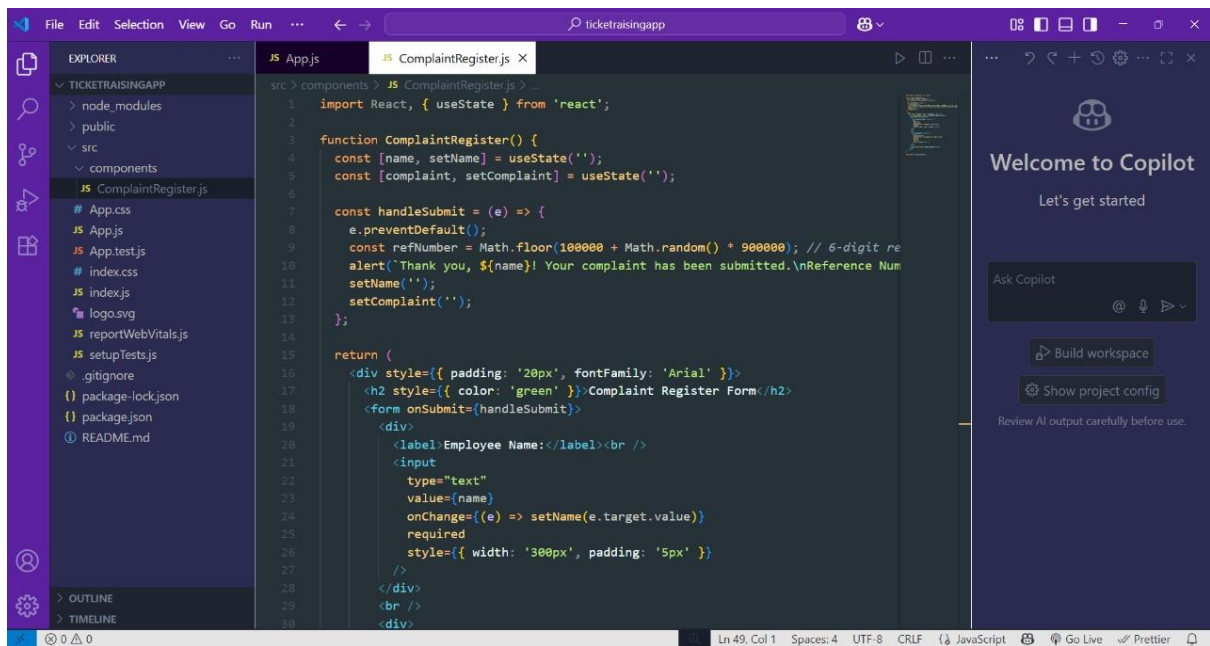
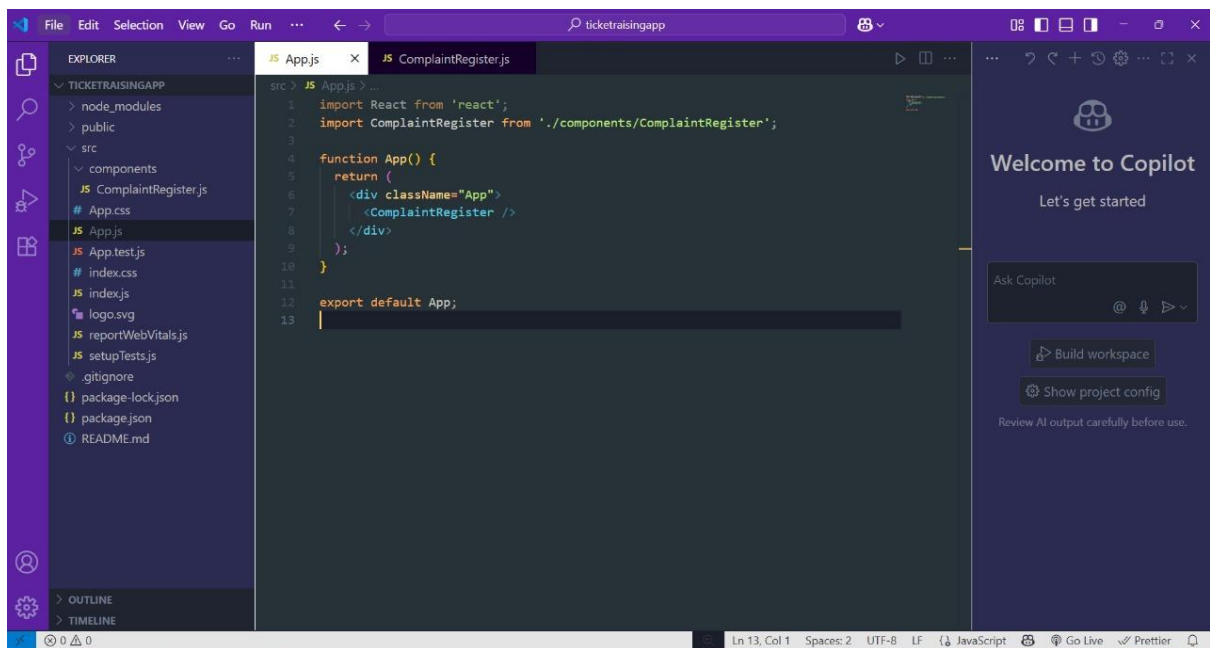
</form>

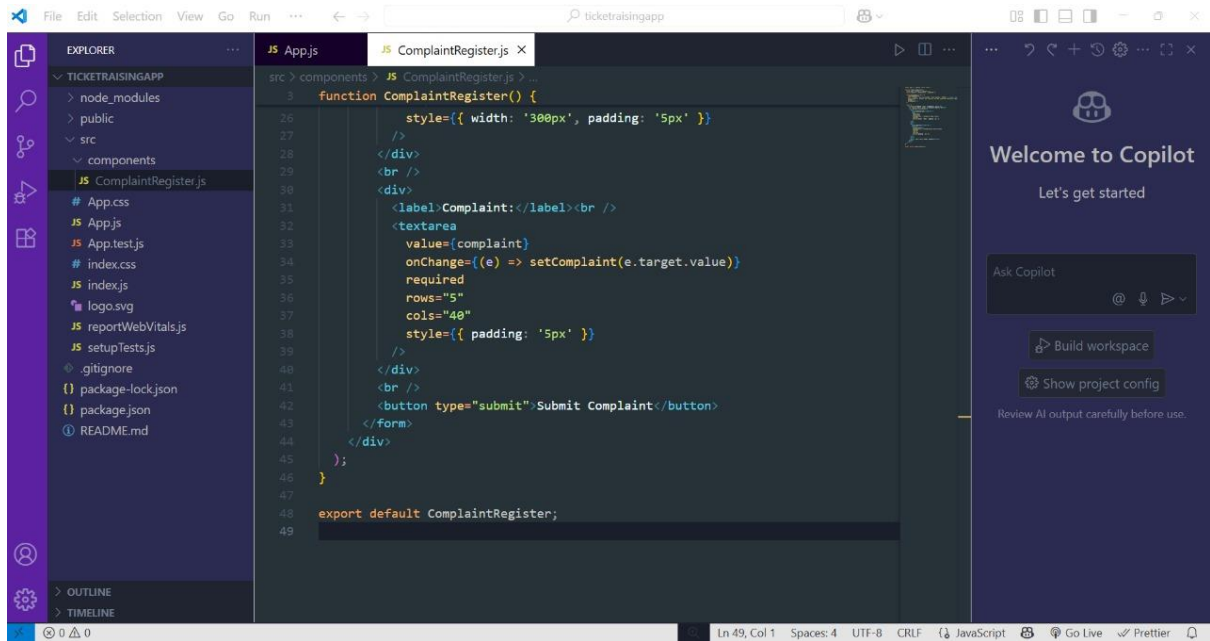
</div>

);

}

export default Register;
```





```

Windows PowerShell
npm run build
  Bundles the app into static files for production.

npm test
  Starts the test runner.

npm run eject
  Removes this tool and copies build dependencies, configuration files
  and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

  cd ticketraisingapp
  npm start

Happy hacking!

C:\Users\mkann>cd ticketraisingapp
C:\Users\mkann\ticketraisingapp>npm start

> ticketraisingapp@0.1.0 start
> react-scripts start

(node:18984) [DEP_WEBPACK_DEV_SERVER_ON_AFTER_SETUP_MIDDLEWARE] DeprecationWarning: 'onAfterSetupMiddleware' option is deprecated. Please use the 'setupMiddlewares' option.
(Use 'node --trace-deprecation ...' to show where the warning was created)
(node:18984) [DEP_WEBPACK_DEV_SERVER_ON_BEFORE_SETUP_MIDDLEWARE] DeprecationWarning: 'onBeforeSetupMiddleware' option is deprecated. Please use the 'setupMiddlewares' option.
Starting the development server...
Compiled successfully!

You can now view ticketraisingapp in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.0.135:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully

```

Output :

React App

http://localhost:3000

Getting Started YouTube Maps InGo-MMT JPW - Partner Portal Jio SSO Login Gmail

Mail Register Form

Name:

Email:

Password:

React App

http://localhost:3000

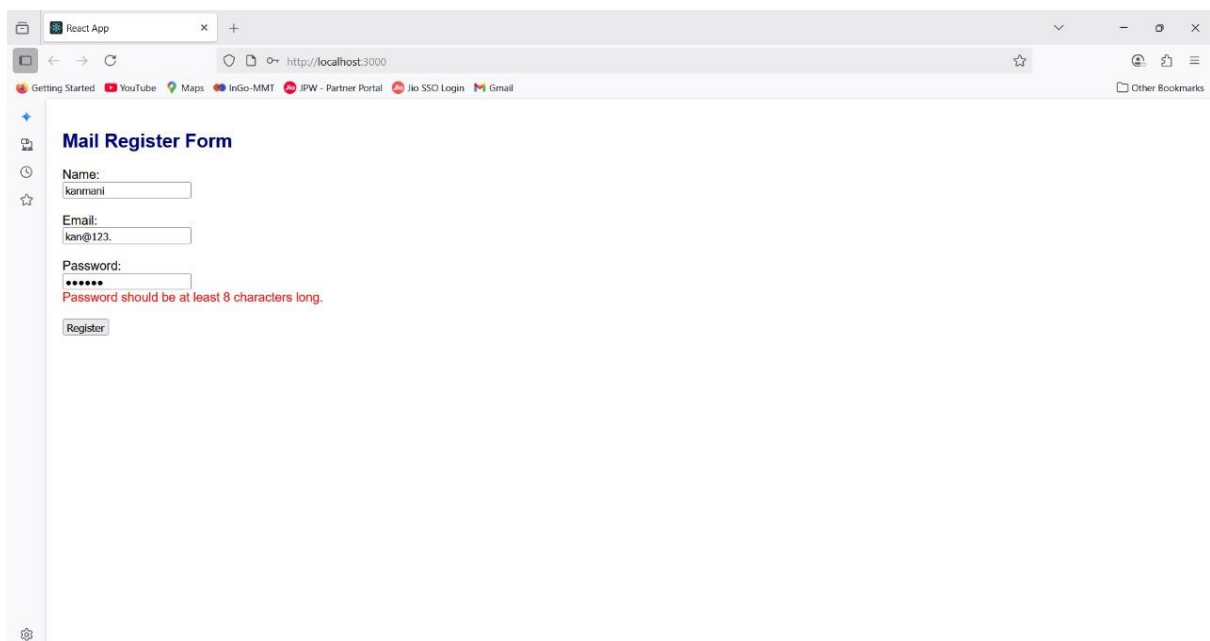
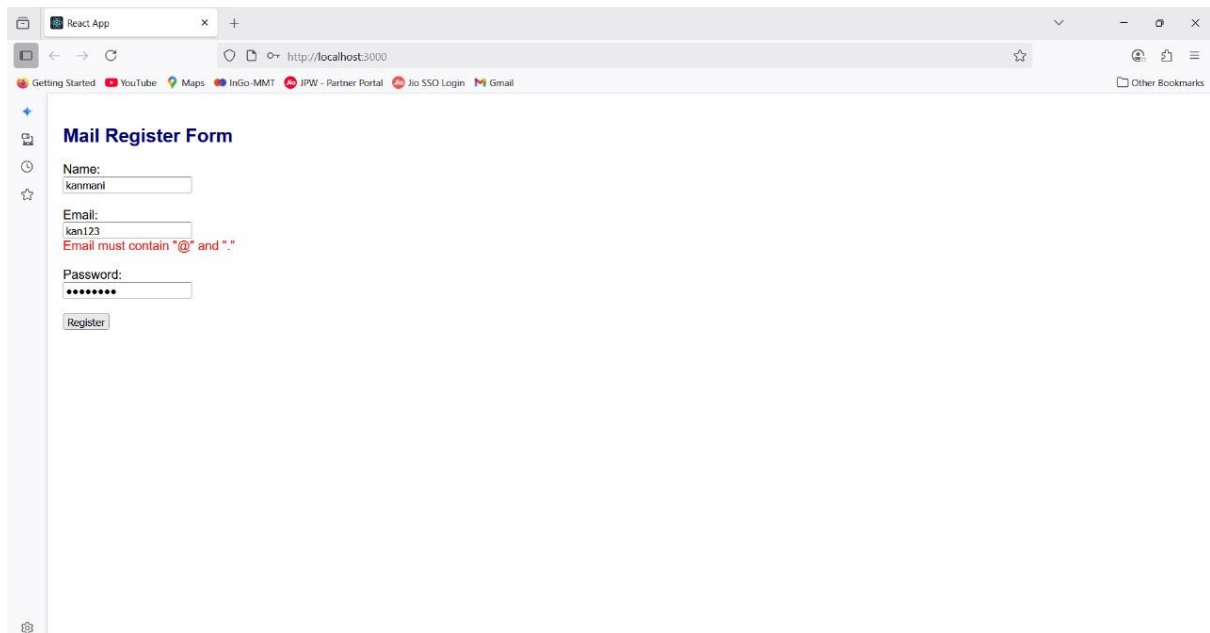
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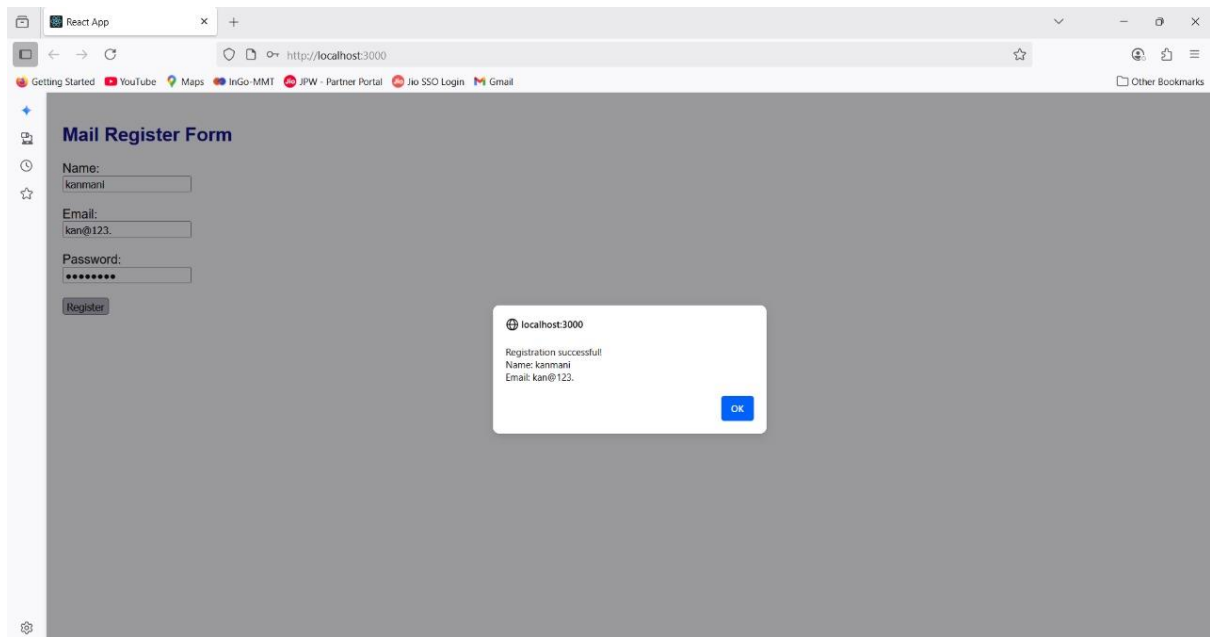
Mail Register Form

Name:
Name should be at least 5 characters long.

Email:

Password:





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