#### MSWD LAB INSEM EXAMINATION

#### 2100032060-VK ABHAY

 Craete a react page to do following work, (i) store the student data with the field of Student Name, Student ID, Student Marks from react to server and to database. (ii) retrieve student data with id marks than 50 from the database to server and to react application to display it.

SOLUTION:-

**REACT COMPONENT:-**

```
import React, { useState } from 'react';
import axios from 'axios';
function StudentForm() {
  const [name, setName] = useState('');
  const [id, setId] = useState('');
  const [marks, setMarks] = useState('');
  const handleSubmit = async (event) => {
    event.preventDefault();
    try {
      const response = await axios.post('/students', {
        id,
       marks,
      });
      console.log(response.data);
    } catch (error) {
      console.error(error);
  };
  return (
    <form onSubmit={handleSubmit}>
      <label>
        Student Name:
        <input type="text" value={name} onChange={(e) => setName(e.target.value)}
      </label>
      <label>
```

#### REACT COMPONENT TO RETRIEVE DATA FROM SERVER:

```
import React, { useState, useEffect } from 'react';
import axios from 'axios';
function StudentList() {
  const [students, setStudents] = useState([]);
 useEffect(() => {
   const fetchData = async () => {
       const response = await axios.get('/students?marksGreaterThan=50');
       setStudents(response.data);
     } catch (error) {
       console.error(error);
    };
   fetchData();
  }, []);
  return (
   <l
     {students.map((student) => (
       Name: {student.name}, ID: {student.id}, Marks: {student.marks}
```

MAIN:

```
import React, { useState, useEffect } from 'react';
import axios from 'axios';
function StudentList() {
 const [students, setStudents] = useState([]);
 useEffect(() => {
   const fetchData = async () => {
       const response = await axios.get('/students?marksGreaterThan=50');
       setStudents(response.data);
     } catch (error) {
       console.error(error);
   };
   fetchData();
 }, []);
   <l
     {students.map((student) => (
       Name: {student.name}, ID: {student.id}, Marks: {student.marks}
     ))}
   );
export default StudentList;
```

```
import React, { useState } from 'react';
import axios from 'axios';
const StudentForm = () => {
  const [name, setName] = useState('');
  const [id, setId] = useState('');
  const [marks, setMarks] = useState('');
  const handleSubmit = async (event) => {
    event.preventDefault();
    try {
      const response = await axios.post('/api/students', {
        name,
        id,
        marks,
      });
      console.log(response.data);
      alert('Student added successfully!');
    } catch (error) {
      console.error(error);
      alert('Failed to add student!');
  };
  return (
    <div>
      <h2>Add a new student:</h2>
      <form onSubmit={handleSubmit}>
        <label>
          Student Name:
          <input type="text" value={name} onChange={(e) =>
setName(e.target.value)} />
        </label>
        <label>
          Student ID:
          <input type="text" value={id} onChange={(e) => setId(e.target.value)}
        </label>
        <label>
          Student Marks:
```

### STUDENTLIST.JS:

```
import React, { useState, useEffect } from 'react';
import axios from 'axios';
const StudentList = () => {
 const [students, setStudents] = useState([]);
 useEffect(() => {
   const fetchStudents = async () => {
       const response = await axios.get('/api/students?marksGreaterThan=50');
       setStudents(response.data);
     } catch (error) {
       console.error(error);
       alert('Failed to fetch students!');
   };
   fetchStudents();
 }, []);
  return (
   <div>
     <h2>Students with Marks Greater Than 50:</h2>
     <l
       {students.map((student) => (
         {student.name} (ID: {student.id}, Marks: {student.marks})
         ))}
```

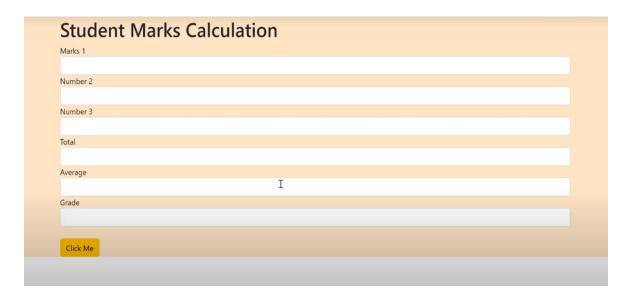
APP.JS:

```
import React from 'react';
import StudentForm from './StudentForm';
import StudentList from './StudentList';
function App();
```

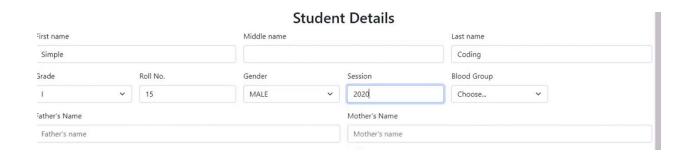
#### APP.JS:

```
import React, { Component } from 'react';
import { Navbar } from './components/includes/Navbar';
import { Sidebar } from './components/includes/Sidebar';
import { Footer } from './components/includes/Footer';
import { StudentAddForm } from './components/student/add';
import { StudentList } from './components/student/list';
import {Route, BrowserRouter as Router, Switch } from 'react-router-dom';
import {NotificationContainer, NotificationManager} from 'react-notifications';
import 'react-notifications/lib/notifications.css';
import './App.css';
import './bower_components/bootstrap/dist/css/bootstrap.min.css';
import './bower_components/font-awesome/css/font-awesome.min.css';
import './bower_components/Ionicons/css/ionicons.min.css';
import './dist/css/AdminLTE.min.css';
import './dist/css/skins/_all-skins.min.css';
class App extends Component {
  render() {
   return (
        <Router>
            <div className="wrapper">
                <Navbar />
                <Sidebar />
                <div className="content-wrapper">
                    <section className="content">
```

# SCREENSHOTS OF OUTPUT: STUDENT MARKS :



## FETCH AND STORE THE STUDENT DETAILS:



## LIST OF STUDENTS WHO GOT MARKS LESS THAN 50:

