



```
npm init -y
```

```
npm install express mongoose body-parser
```

```
npm install -g nodemon
```

to run the application :

```
cd server
```

```
npx nodemon index.js
```

```
//server/index.js
const express = require('express');
const mongoose = require('mongoose');
const app = express();
const PORT = 3000;
app.use(express.urlencoded({ extended: false }));
// Connect to MongoDB
mongoose.connect('mongodb://127.0.0.1:27017/student').then(() =>
console.log("connected"));

// Create a student schema
const studentSchema = new mongoose.Schema({
  name: String,
  email: String,
  rollno: String,
```

```

    gpa: Number,
  });

  // Create a student model
  const Student = new mongoose.model('details', studentSchema);
  // Middleware
  app.use(express.static('public'));

  // Routes
  app.post('/submit', async (req, res) => {
    s = {
      name: req.body.name,
      email: req.body.email,
      rollno: req.body.rollno,
      gpa: req.body.gpa,
    };
    const newStudent = new Student(s);

    try {
      await newStudent.save();
      res.sendFile('D:/3-1 SM/WT/LAB/Project/views/success.html');
    } catch (error) {
      console.error('Error saving student:', error);
      res.json({ success: false });
    }
  });

  app.get('/getdetails', async (req, res) => {
    const rollno = req.query.rollno.toUpperCase();
    console.log(rollno);
    try {
      // Find user in the database based on the provided roll number
      const user = await Student.findOne({ rollno: rollno });
      console.log(user);
      if (user) {
        res.json(user);
      } else {
        res.status(404).json({ error: 'User not found' });
      }
    } catch (error) {
      console.error(error);
      res.status(500).json({ error: 'Internal Server Error' });
    }
  });

  app.post('/deleteuser', (req, res) => {
    let studentId = req.body.rollno;
    Student.findOneAndDelete({ rollno: studentId }).then((users) => {
      if (users) {

```

```

        res.sendFile('D:/3-1 SM/WT/LAB/Project/views/deletesucc.html');
    }
    else {
        res.send(`

## 


```

```

    res.redirect('/');
  });
  app.get('/delete', (req, res) => {
    res.sendFile('D:/3-1 SM/WT/LAB/Project/public/delete.html');
  });

  // Start the server
  app.listen(PORT, () => {
    console.log(`Server is running on http://localhost:${PORT}`);
  });

```

//index.html

```

<!-- public/index.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>First page</title>
</head>
<body>
  <div>
    <button name="registerbtn"
onclick="location.href='/register'">Register</button>
    <button name="showuserbtn" onclick="location.href='/showuser'">Show
Data</button>
    <button name="updatebtn"
onclick="location.href='/update'">Update</button>
    <button name="deletebtn"
onclick="location.href='/delete'">Delete</button>
  </div>
</body>
</html>

```

//register.html

```

<!-- public/register.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="/style.css">
  <title>Student Information</title>
</head>

```

```

<body>
  <h1>Student Information Form</h1>
  <form id="studentForm" action="http://localhost:3000/submit"
method="post">
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" required>

    <label for="rollno">Roll No:</label>
    <input type="text" id="rollno" name="rollno" required>

    <label for="email">Email:</label>
    <input type="text" id="email" name="email" required>

    <label for="gpa">GPA:</label>
    <input type="number" id="gpa" name="gpa" required>

    <button type="submit">Submit</button>
  </form>
</body>
</html>

```

//showuser.html

```

<!-- public/showuser.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Show User Information</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 20px;
    }
    form {
      max-width: 400px;
      margin: 20px 0;
    }
    label {
      display: block;
      margin-bottom: 5px;
    }
    input {
      width: 100%;
      padding: 8px;
      margin-bottom: 10px;
    }
  </style>

```

```

    }
    button {
        padding: 10px;
        background-color: #4caf50;
        color: white;
        border: none;
        cursor: pointer;
    }
    button:hover {
        background-color: #45a049;
    }
</style>
</head>
<body>
    <h1>Show User</h1>
    <form id="showUserForm">
        <label for="rollno">Enter Roll Number:</label>
        <input type="text" id="rollno" required>
        <button type="button" onclick="requestdata()" >Show User</button>
        <button onclick="location.href='/goback'">Go to main page</button>
    </form>

    <div id="userInfo">
        <h2>User Information</h2>
        <p><span id="name"></span></p>
        <p><span id="email"></span></p>
        <p><span id="rollnodis"></span></p>
        <p><span id="gpa"></span></p>
    </div>

    <script>
        function requestdata() {

            const rollno=document.getElementById("rollno").value;
            fetch(`/getdetails?rollno=${rollno}`)
                .then(response=>response.json())
                .then(data=>{
                    console.log(data);
                    document.getElementById('name').innerHTML = `Name: ${data.name}`;
                    document.getElementById('email').innerHTML = `Email:
${data.email}`;
                    document.getElementById('rollnodis').innerHTML = `Roll No:
${data.rollno}`;
                    document.getElementById('gpa').innerHTML = `GPA: ${data.gpa}`;
                })
                .catch(error=>console.error('Error:',error));
        }
    </script>

```

```
</body>
</html>
```

//update.html

```
<!-- public/update.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Edit Student Details</title>
  <style>
    /* styles.css */
body {
  font-family: Arial, sans-serif;
  text-align: center;
  margin: 50px;
}

h1 {
  color: #333;
}

input {
  padding: 8px;
  margin: 8px;
}

button {
  padding: 10px;
  background-color: #4CAF50;
  color: white;
  cursor: pointer;
}

  </style>
</head>
<body>
  <h1>Edit Student Details</h1>
  <form action="http://localhost:3000/updatedetails" method="post">
    <label for="rollNo">Enter Roll No:</label>
    <input type="text" id="rollno" name="rollno" placeholder="Enter Roll No">

    <label for="name">Name:</label>
    <input type="text" id="name" name="name" placeholder="Enter Name">

    <label for="gpa">GPA:</label>
```

```

<input type="text" id="gpa" name="gpa" placeholder="Enter GPA">

<label for="email">Email:</label>
<input type="text" id="email" name="email" placeholder="Enter Email">

<button type="submit">Edit Student Details</button>
</form>

<script>
function editStudent() {

    var rollNo = document.getElementById('rollNo').value;
    var name = document.getElementById('name').value;
    var gpa = document.getElementById('gpa').value;
    var email = document.getElementById('email').value;
    console.log('Edit Student button clicked!');

    // Send a request to the server to edit the student details
    fetch(`/edit-student/${rollNo}`, {
        method: 'PUT',
        headers: {
            'Content-Type': 'application/json',
        },
        body: JSON.stringify({
            name: name,
            gpa: gpa,
            email: email,
        }),
    })
    .then(response => response.json())
    .then(data => {
        alert(data.message);
    })
    .catch(error => {
        console.error('Error:', error);
    });
}

</script>
</body>
</html>

```

//delete.html

```

<!-- public/delete.html -->
<!DOCTYPE html>

```



```

<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Details</title>
</head>
<body>
  <h2>Enter the Username to delete the details</h2>
  <form action="http://localhost:3000/deleteuser" method="POST">
    <label>ROLLNO </label>
    <input type="text" name="rollno" id="rollno"><br><br>
    <button type="submit" name="sub" id="sub">Delete</button>
    <button onclick="location.href='/goback'">Go to main page</button>
  </form>
</body>
</html>

```

//style.css

```

body {
  font-family: Arial, sans-serif;
  margin: 20px;
}
form {
  max-width: 400px;
  margin: 20px 0;
}
label {
  display: block;
  margin-bottom: 5px;
}
input {
  width: 100%;
  padding: 8px;
  margin-bottom: 10px;
}
button {
  padding: 10px;
  background-color: #4caf50;
  color: white;
  border: none;
  cursor: pointer;
}
button:hover {
  background-color: #45a049;
}

```

//views/deletesucc.html

```
<!-- views/deletesucc.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <h1>Operation Successful</h1>
  <h1>Successfully Deleted</h1>
  <button onclick="location.href='/goback'">Go Back</button>
</body>
</html>
```

//views/success.html

```
<!-- views/success.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Success</title>
  <link rel="stylesheet" href="/style.css">
</head>
<body>
  <h1>Operation Successful</h1>
  <p>Your data has been successfully submitted.</p>
  <button onclick="location.href='/goback'">Go Back</button>
</body>
</html>
```