## StudentApp/index.html

<!DOCTYPE html>  
<html ng-app="studentApp">  
<head>  
 <base href="/">  
 <meta charset="UTF-8">  
 <title>Student Registration & Login</title>  
 <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>  
 <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular-route.js"></script>  
 <script src="app.js"></script>  
 <script src="controllers/loginController.js"></script>  
 <script src="controllers/registerController.js"></script>  
 <script src="controllers/homeController.js"></script>  
  
 <style>  
 /\* Navigation Styles \*/  
nav {  
 background-color: #333;  
 padding: 15px 0;  
 text-align: center;  
 margin: 20px 0;  
 border-radius: 5px;  
 box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);  
}  
  
nav a {  
 color: white;  
 text-decoration: none;  
 padding: 8px 20px;  
 margin: 0 10px;  
 font-size: 16px;  
 border-radius: 4px;  
 transition: background-color 0.3s ease;  
}  
  
nav a:hover {  
 background-color: #4CAF50;  
}  
  
/\* Header Styles \*/  
h1 {  
 text-align: center;  
 color: #333;  
 margin: 20px 0;  
 font-size: 2em;  
}  
 </style>  
</head>  
<body>  
 <h1>Student Portal</h1>  
 <nav>  
 <a href="#!/login">Login</a> |  
 <a href="#!/register">Register</a>  
 </nav>  
 <div ng-view></div>  
</body>  
</html>

## StudentApp/app.js

angular.module('studentApp', ['ngRoute'])  
.config(function($routeProvider) {  
 $routeProvider  
 .when('/login', {  
 templateUrl: 'views/login.html',  
 controller: 'LoginController'  
 })  
 .when('/register', {  
 templateUrl: 'views/register.html',  
 controller: 'RegisterController'  
 })  
 .when('/home', {  
 templateUrl: 'views/home.html',  
 controller: 'HomeController'  
 })  
 .otherwise({  
 redirectTo: '/login'  
 });  
})  
.run(function($rootScope) {  
 // Initialize login state from localStorage  
 $rootScope.isLoggedIn = localStorage.getItem('isLoggedIn') === 'true';  
});;

## StudentApp/package.json

{  
 "name": "student-app",  
 "version": "1.0.0",  
 "dependencies": {  
 "bcrypt": "^5.1.1",  
 "body-parser": "^1.19.0",  
 "csurf": "^1.10.0",  
 "express": "^4.17.1",  
 "express-session": "^1.18.1",  
 "mysql2": "^2.3.3"  
 }  
}

## StudentApp/server.js

const express = require('express');  
const mysql = require('mysql2');  
const bodyParser = require('body-parser');  
const app = express();  
  
app.use(bodyParser.json());  
app.use(express.static(\_\_dirname));  
  
// Database connection  
const db = mysql.createConnection({  
 host: 'localhost',  
 user: 'root',  
 password: 'Root@123',  
 database: 'student\_portal'  
});  
  
db.connect((err) => {  
 if (err) throw err;  
 console.log('Connected to database');  
});  
  
db.on('error', (err) => {  
 console.error('Database error:', err);  
 if (err.code === 'PROTOCOL\_CONNECTION\_LOST') {  
 handleDisconnect();  
 } else {  
 throw err;  
 }  
});  
// Register endpoint  
// ...existing code...  
  
app.post('/api/register', (req, res) => {  
 const student = req.body;  
   
 // Format the date to YYYY-MM-DD format  
 const formattedDate = new Date(student.date\_of\_birth).toISOString().split('T')[0];  
   
 const query = `  
 INSERT INTO students (  
 name, email, password, registration\_number,   
 branch, semester, phone, date\_of\_birth,   
 address, gender, batch\_year, blood\_group,   
 parent\_name, parent\_phone  
 ) VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)  
 `;  
   
 const values = [  
 student.name,   
 student.email,   
 student.password,  
 student.registration\_number,   
 student.branch,  
 student.semester,   
 student.phone,   
 formattedDate, // Use formatted date here  
 student.address,   
 student.gender,   
 student.batch\_year,  
 student.blood\_group,   
 student.parent\_name,   
 student.parent\_phone  
 ];  
  
 db.query(query, values, (err, result) => {  
 if (err) {  
 if (err.code === 'ER\_DUP\_ENTRY') {  
 if (err.message.includes('email')) {  
 res.status(400).json({ error: 'Email already registered' });  
 } else if (err.message.includes('registration\_number')) {  
 res.status(400).json({ error: 'Registration number already exists' });  
 } else {  
 res.status(400).json({ error: 'Duplicate entry found' });  
 }  
 } else {  
 console.error('Registration error:', err);  
 res.status(500).json({ error: 'Database error' });  
 }  
 return;  
 }  
 res.json({ message: 'Registration successful' });  
 });  
});  
  
// Login endpoint  
app.post('/api/login', (req, res) => {  
 const { email, password } = req.body;  
 const query = 'SELECT \* FROM students WHERE email = ? AND password = ?';  
   
 db.query(query, [email, password], (err, results) => {  
 if (err) {  
 res.status(500).json({ error: 'Database error' });  
 return;  
 }  
 if (results.length > 0) {  
 res.json({ success: true });  
 } else {  
 res.status(401).json({ error: 'Invalid credentials' });  
 }  
 });  
});  
  
app.listen(3000, () => {  
 console.log('Server running on port 3000');  
});

## StudentApp/controllers/loginController.js

angular.module('studentApp')  
.controller('LoginController', function($scope, $location, $rootScope, $http) {  
 $scope.user = {};  
  
 if (localStorage.getItem('isLoggedIn') === 'true') {  
 $rootScope.isLoggedIn = true;  
 $location.path('/home');  
 return;  
 }  
 $scope.login = function() {  
 $http.post('/api/login', $scope.user)  
 .then(function(response) {  
 $rootScope.isLoggedIn = true;  
 localStorage.setItem('isLoggedIn', 'true');  
 alert('Login successful!');  
 $location.path('/home');  
 })  
 .catch(function(error) {  
 alert(error.data.error || 'Invalid credentials');  
 });  
 };  
});

## StudentApp/controllers/registerController.js

angular.module('studentApp')  
.controller('RegisterController', function($scope, $location, $http) {  
 $scope.student = {};  
  
 $scope.register = function() {  
 $http.post('/api/register', $scope.student)  
 .then(function(response) {  
 alert('Registration successful!');  
 $location.path('/login');  
 })  
 .catch(function(error) {  
 alert(error.data.error || 'Registration failed!');  
 });  
 };  
});

## StudentApp/controllers/homeController.js

angular.module('studentApp')  
.controller('HomeController', function($scope, $location, $rootScope) {  
 // Check both localStorage and $rootScope for login state  
 if (!localStorage.getItem('isLoggedIn') && !$rootScope.isLoggedIn) {  
 $location.path('/login');  
 return;  
 }  
  
 $scope.logout = function() {  
 $rootScope.isLoggedIn = false;  
 localStorage.removeItem('isLoggedIn');  
 $location.path('/login');  
 };  
});

## StudentApp/views/login.html

<html>  
<head>

<style>  
 /\* Login Form Styles \*/  
 .login-container {  
 max-width: 400px;  
 margin: 50px auto;  
 padding: 20px;  
 background-color: #ffffff;  
 border-radius: 8px;  
 box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);  
 }  
  
 h2 {  
 text-align: center;  
 color: #333;  
 margin-bottom: 30px;  
 }  
  
 form {  
 display: flex;  
 flex-direction: column;  
 gap: 15px;  
 padding-right: 30px;  
 }  
  
 label {  
 font-weight: 500;  
 color: #555;  
 margin-bottom: 5px;  
 }  
  
 input[type="email"],  
 input[type="password"] {  
 width: 100%;  
 padding: 12px;  
   
 border: 1px solid #ddd;  
 border-radius: 4px;  
 font-size: 14px;  
 transition: border-color 0.3s;  
 }  
  
 input[type="email"]:focus,  
 input[type="password"]:focus {  
 border-color: #4CAF50;  
 outline: none;  
 box-shadow: 0 0 5px rgba(76, 175, 80, 0.2);  
 }  
  
 button[type="submit"] {  
 background-color: #4CAF50;  
 color: white;  
 padding: 12px;  
 border: none;  
 border-radius: 4px;  
 cursor: pointer;  
 font-size: 16px;  
 font-weight: 500;  
 transition: background-color 0.3s;  
 }  
  
 button[type="submit"]:hover {  
 background-color: #45a049;  
 }  
  
 /\* Error state \*/  
 input.ng-invalid.ng-touched {  
 border-color: #ff4444;  
 }  
  
 /\* Success state \*/  
 input.ng-valid.ng-touched {  
 border-color: #4CAF50;  
 }  
 </style>

</head>  
  
<body>  
 <div class="login-container">  
 <h2>Login</h2>  
 <form ng-submit="login()">  
 <div class="form-group">  
 <label>Email:</label>  
 <input type="email" ng-model="user.email" required>  
 </div>  
 <div class="form-group">  
 <label>Password:</label>  
 <input type="password" ng-model="user.password" required>  
 </div>  
 <button type="submit">Login</button>  
 </form>  
 </div>  
</body>  
  
</html>

## StudentApp/views/register.html

<html>  
  
<head>

<style>  
 .registration-form {  
 max-width: 800px;  
 margin: 0 auto;  
 padding: 20px;  
 }  
  
 .student-form {  
 display: grid;  
 grid-template-columns: 1fr 1fr;  
 gap: 20px;  
 }  
  
 .form-group {  
 margin-bottom: 15px;  
 }  
  
 .form-group label {  
 display: block;  
 margin-bottom: 5px;  
 font-weight: bold;  
 }  
  
 .form-group input,  
 .form-group select,  
 .form-group textarea {  
 width: 100%;  
 padding: 8px;  
 border: 1px solid #ddd;  
 border-radius: 4px;  
 }  
  
 .form-group textarea {  
 height: 100px;  
 resize: vertical;  
 }  
  
 .btn-register {  
 grid-column: 1 / -1;  
 background-color: #4CAF50;  
 color: white;  
 padding: 10px 20px;  
 border: none;  
 border-radius: 4px;  
 cursor: pointer;  
 font-size: 16px;  
 }  
  
 .btn-register:hover {  
 background-color: #45a049;  
 }  
 </style>

</head>  
  
<body>  
 <div class="registration-form">  
 <h2>Student Registration</h2>  
 <form ng-submit="register()" class="student-form">  
 <div class="form-group">  
 <label>Full Name:</label>  
 <input type="text" ng-model="student.name" required>  
 </div>  
 <div class="form-group">  
 <label>Email:</label>  
 <input type="email" ng-model="student.email" required>  
 </div>  
 <div class="form-group">  
 <label>Password:</label>  
 <input type="password" ng-model="student.password" required>  
 </div>  
 <div class="form-group">  
 <label>Registration Number:</label>  
 <input type="text" ng-model="student.registration\_number" required>  
 </div>  
 <div class="form-group">  
 <label>Branch:</label>  
 <select ng-model="student.branch" required>  
 <option value="">Select Branch</option>  
 <option value="Computer Science">Computer Science</option>  
 <option value="Mechanical">Mechanical</option>  
 <option value="Electrical">Electrical</option>  
 <option value="Civil">Civil</option>  
 <option value="Electronics">Electronics</option>  
 </select>  
 </div>  
 <div class="form-group">  
 <label>Semester:</label>  
 <select ng-model="student.semester" required>  
 <option value="">Select Semester</option>  
 <option value="1">1st Semester</option>  
 <option value="2">2nd Semester</option>  
 <option value="3">3rd Semester</option>  
 <option value="4">4th Semester</option>  
 <option value="5">5th Semester</option>  
 <option value="6">6th Semester</option>  
 <option value="7">7th Semester</option>  
 <option value="8">8th Semester</option>  
 </select>  
 </div>  
 <div class="form-group">  
 <label>Phone Number:</label>  
 <input type="tel" ng-model="student.phone" required>  
 </div>  
 <div class="form-group">  
 <label>Date of Birth:</label>  
 <input type="date" ng-model="student.date\_of\_birth" required>  
 </div>  
 <div class="form-group">  
 <label>Gender:</label>  
 <select ng-model="student.gender" required>  
 <option value="">Select Gender</option>  
 <option value="Male">Male</option>  
 <option value="Female">Female</option>  
 <option value="Other">Other</option>  
 </select>  
 </div>  
 <div class="form-group">  
 <label>Batch Year:</label>  
 <input type="text" ng-model="student.batch\_year" placeholder="2023-2027" required>  
 </div>  
 <div class="form-group">  
 <label>Blood Group:</label>  
 <select ng-model="student.blood\_group">  
 <option value="">Select Blood Group</option>  
 <option value="A+">A+</option>  
 <option value="A-">A-</option>  
 <option value="B+">B+</option>  
 <option value="B-">B-</option>  
 <option value="O+">O+</option>  
 <option value="O-">O-</option>  
 <option value="AB+">AB+</option>  
 <option value="AB-">AB-</option>  
 </select>  
 </div>  
 <div class="form-group">  
 <label>Address:</label>  
 <textarea ng-model="student.address" required></textarea>  
 </div>  
 <div class="form-group">  
 <label>Parent/Guardian Name:</label>  
 <input type="text" ng-model="student.parent\_name" required>  
 </div>  
 <div class="form-group">  
 <label>Parent/Guardian Phone:</label>  
 <input type="tel" ng-model="student.parent\_phone" required>  
 </div>  
 <button type="submit" class="btn-register">Register</button>  
 </form>  
 </div>  
</body>  
  
</html>

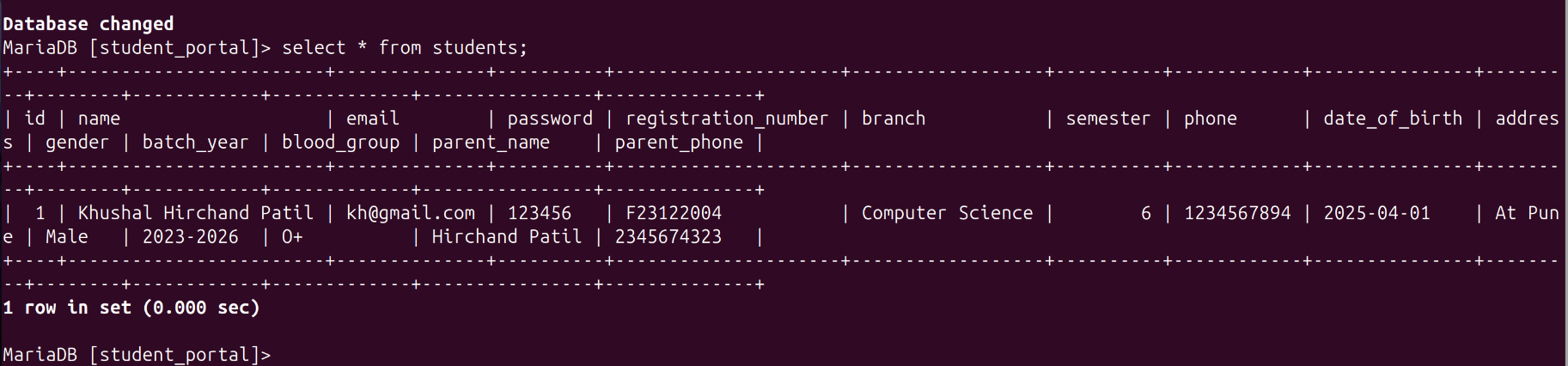
## StudentApp/views/home.html

<html>  
 <head>

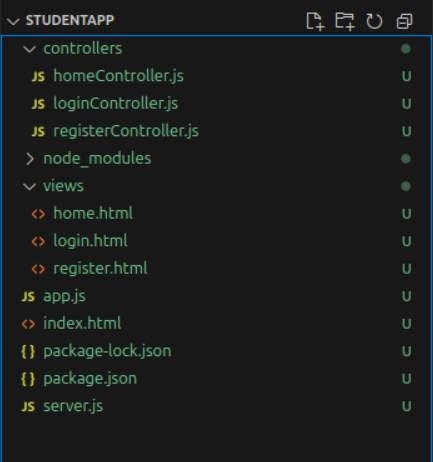
<style>  
 /\* Home Page Styles \*/  
 .home-container {  
 min-height: 100vh;  
 background-color: #f5f5f5;  
 }  
   
 .home-nav {  
 background-color: #333;  
 color: white;  
 padding: 1rem 2rem;  
 display: flex;  
 justify-content: space-between;  
 align-items: center;  
 box-shadow: 0 2px 5px rgba(0,0,0,0.1);  
 }  
   
 .home-nav h2 {  
 margin: 0;  
 font-size: 1.5rem;  
 }  
   
 .logout-btn {  
 background-color: #dc3545;  
 color: white;  
 border: none;  
 padding: 8px 16px;  
 border-radius: 4px;  
 cursor: pointer;  
 font-size: 14px;  
 transition: background-color 0.3s ease;  
 }  
   
 .logout-btn:hover {  
 background-color: #c82333;  
 }  
   
 .dashboard {  
 padding: 2rem;  
 max-width: 1200px;  
 margin: 0 auto;  
 }  
   
 .welcome-message {  
 background-color: white;  
 padding: 2rem;  
 border-radius: 8px;  
 box-shadow: 0 2px 10px rgba(0,0,0,0.1);  
 margin-bottom: 2rem;  
 }  
   
 .welcome-message h3 {  
 color: #333;  
 margin-top: 0;  
 margin-bottom: 1rem;  
 }  
   
 .welcome-message p {  
 color: #666;  
 margin: 0;  
 }  
 </style>

</head>  
 <body>  
 <div class="home-container">  
 <nav class="home-nav">  
 <h2>Welcome to Student Portal!</h2>  
 <button class="logout-btn" ng-click="logout()">Logout</button>  
 </nav>  
 <div class="dashboard">  
 <div class="welcome-message">  
 <h3>Hello, {{studentName}}!</h3>  
 <p>Welcome to your student dashboard</p>  
 </div>  
 </div>  
 </div>  
 </body>  
</html>

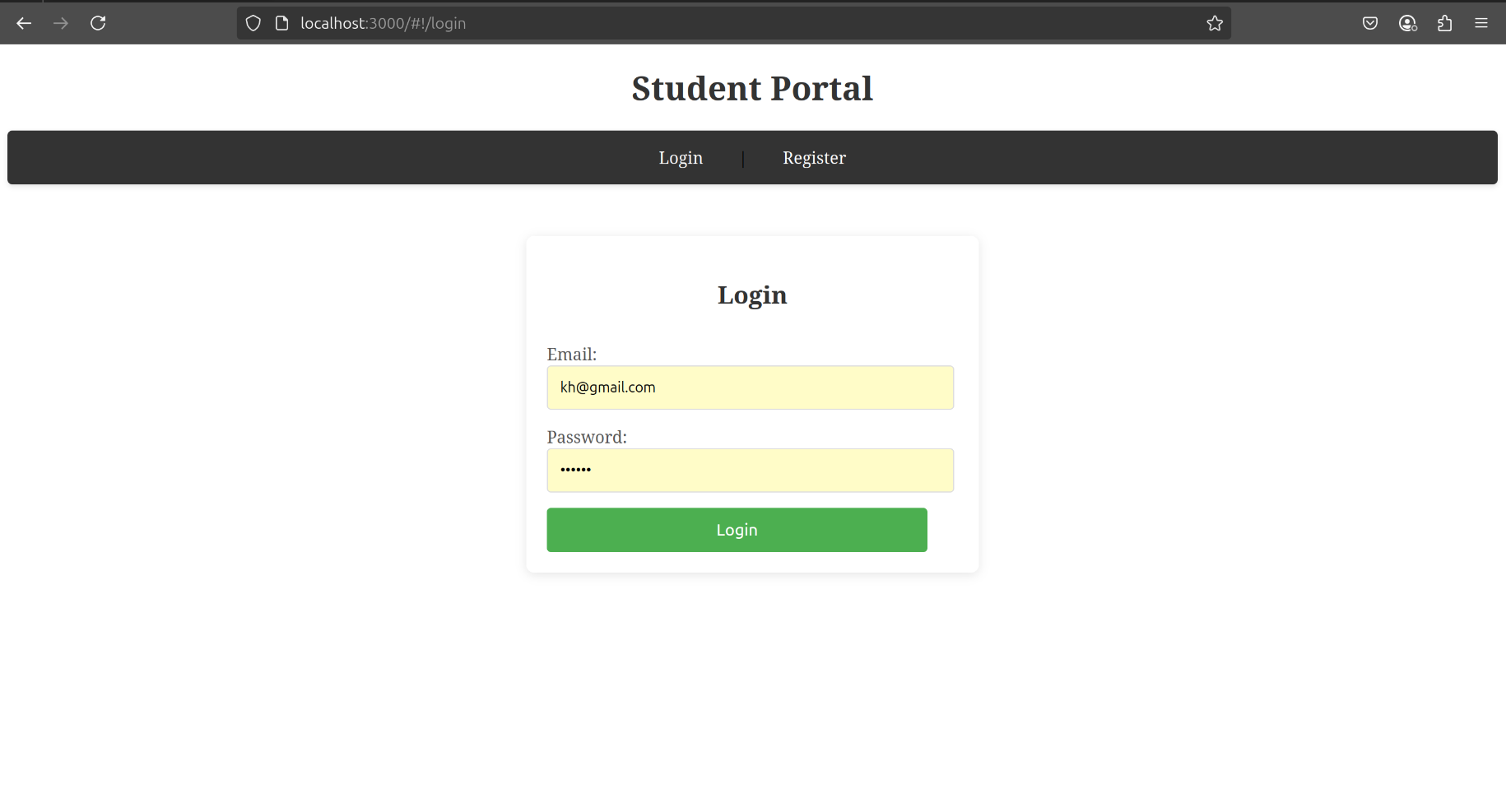
**MySQL Table**

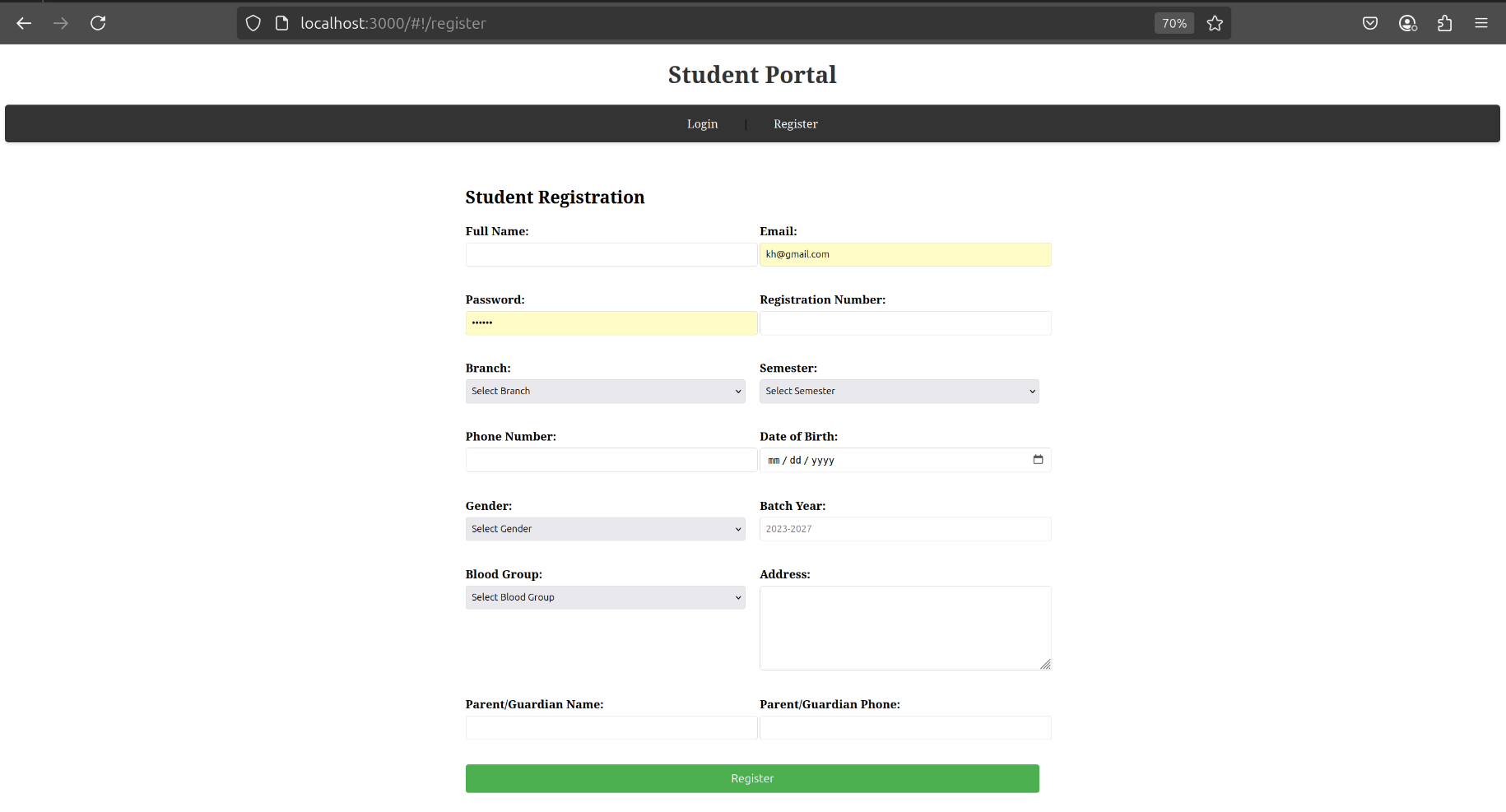


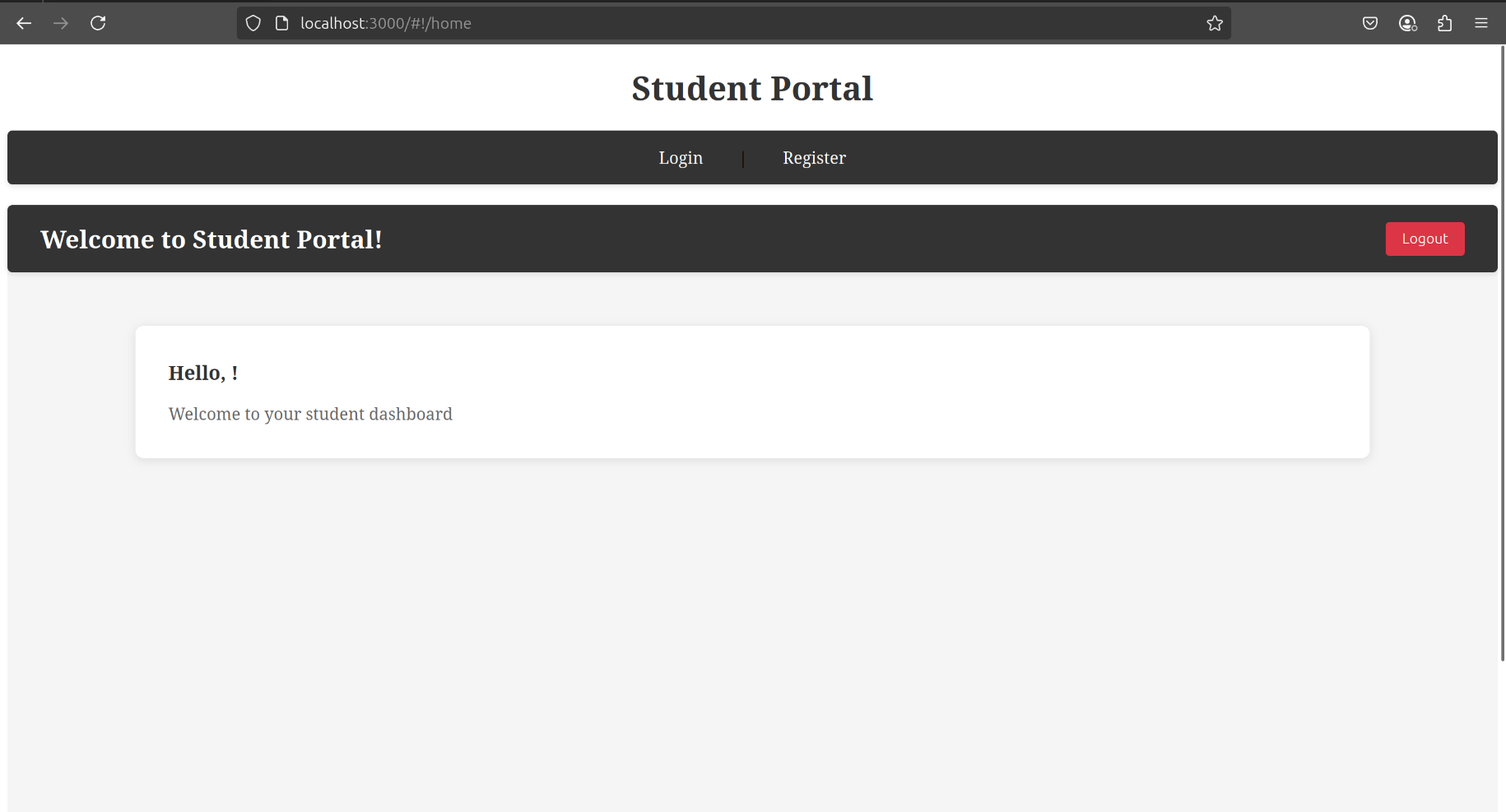
**Directory Structure**

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**Outputs**

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