

1. 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>

```

2. 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';
});

```

3. 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"
    }
}

```

```
    }  
  }  
}
```

4. 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');
});

```

5. 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');
            });
    };
});

```

6. 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!');
        });
    });
});

```

7. 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');
    };
});

```

8. 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                font-size: 16px;
#ddd;                                   font-weight: 500;
        border-radius: 4px;              transition:
        font-size: 14px;                  background-color 0.3s;
        transition: border-                }
color 0.3s;
    }

        button[type="submit"]:hover {
            background-color:
input[type="email"]:focus,              #45a049;
                                         }
input[type="password"]:focus {
    border-color:                        /* Error state */
#4CAF50;                                input.ng-invalid.ng-
                                         touched {
        outline: none;                  border-color:
        box-shadow: 0 0 5px             #ff4444;
        rgba(76, 175, 80, 0.2);         }
    }

        button[type="submit"] {           /* Success state */
            background-color:            input.ng-valid.ng-
#4CAF50;                                touched {
            color: white;                border-color:
            padding: 12px;               #4CAF50;
            border: none;                }
            border-radius: 4px;          }
            cursor: pointer;            </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>

```

9. 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>

```

10. 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>

```

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

MySQL Table

```
Database changed
MariaDB [student_portal]> select * from students;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| id | name | email | password | registration_number | branch | semester | phone | date_of_birth | address |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Khushal Hirchand Patil | kh@gmail.com | 123456 | F23122004 | Computer Science | 6 | 1234567894 | 2025-04-01 | At Pun |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [student_portal]>
```

Directory Structure

```
STUDENTAPP
├── controllers
│   ├── homeController.js
│   ├── loginController.js
│   └── registerController.js
├── node_modules
├── views
│   ├── home.html
│   ├── login.html
│   └── register.html
├── app.js
├── index.html
├── package-lock.json
├── package.json
└── server.js
```

Outputs

Student Portal

LoginRegister

Login

Email:

kh@gmail.com

Password:

Login

Student Portal

LoginRegister

Student Registration

Full Name:

Email:

kh@gmail.com

Password:

Registration Number:

Branch:

Select Branch

Semester:

Select Semester

Phone Number:

Date of Birth:

mm / dd / yyyy

Gender:

Select Gender

Batch Year:

2023-2027

Blood Group:

Select Blood Group

Address:

Parent/Guardian Name:

Parent/Guardian Phone:

Register

Student Portal

LoginRegister

Welcome to Student Portal!

Logout

Hello, !

Welcome to your student dashboard