

PRACTICAL 5

Building a Single-page Application using a front-end Framework (e.g.: React, Angular, Vue.js)

AngularJS GSFCU Portal

```

<!DOCTYPE html>
<html ng-app="gsfcApp">
<head>
  <meta charset="UTF-8">
  <title>GSFC University Portal</title>

  <!-- AngularJS Libraries -->
  <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>

  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 0;
    }

    nav {
      background-color: #003366;
      color: white;
      padding: 15px;
    }

    nav a {
      color: white;
      margin-right: 15px;
      text-decoration: none;
    }

    nav a:hover {
      text-decoration: underline;
    }

    .container {
      padding: 20px;
    }

    .error {
      color: red;
      font-size: 13px;
    }

    footer {
      background: #f2f2f2;
      padding: 15px;
      text-align: center;
    }
  </style>

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        margin-top: 30px;
    }
</style>
</head>

<body>
<nav>
    <strong>GSFC University Portal</strong><br><br>
    <a href="#!/">Home</a>
    <a href="#!/about">About</a>
    <a href="#!/register">Register</a>
    <a href="#!/login">Login</a>
</nav>

<div class="container" ng-view></div>

<footer>
    © 2025 GSFC University. All rights reserved.
</footer>

<script>
    // Define AngularJS App
    var app = angular.module("gsfcApp", ["ngRoute"]);

    // Routing Configuration
    app.config(function($routeProvider) {
        $routeProvider
            .when("/", {
                template: `
                    <h2>Welcome to GSFC University</h2>
                    <p>Explore our programs and register to be a part of
innovation!</p>
                `
            })
            .when("/about", {
                template: `
                    <h2>About GSFC University</h2>
                    <p>GSFC University, established by GSFC Ltd., focuses on
industry-oriented education with innovation at its core.</p>
                `
            })
            .when("/register", {
                template: `
                    <h2>Register</h2>
                    <form name="registerForm" novalidate ng-submit="submitForm()">

                        <label>Full Name:</label><br>
                        <input type="text" name="fullName" ng-model="user.fullName"
required />
                        <div class="error" ng-show="registerForm.fullName.$touched &&
registerForm.fullName.$invalid">
                            Name is required.
                        </div><br>

                        <label>Email:</label><br>
                        <input type="email" name="email" ng-model="user.email" required
/>
                    </form>
                `
            })
    });
</script>

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<div class="error" ng-show="registerForm.email.$touched &&
registerForm.email.$invalid">
    Enter a valid email.
</div><br>

<label>Password:</label><br>
<input type="password" name="password" ng-model="user.password"
ng-minlength="6" required />
<div class="error" ng-show="registerForm.password.$touched &&
registerForm.password.$invalid">
    Password must be at least 6 characters.
</div><br>

<label>Program:</label><br>
<select name="program" ng-model="user.program" required>
    <option value="">Select</option>
    <option value="B.Tech">B.Tech</option>
    <option value="M.Tech">M.Tech</option>
    <option value="PhD">PhD</option>
</select>
<div class="error" ng-show="registerForm.program.$touched &&
registerForm.program.$invalid">
    Program selection is required.
</div><br>

<button type="submit"
ng-disabled="registerForm.$invalid">Submit</button>
</form>

<p ng-if="submitted">Registration Successful! Welcome to GSFC
University.</p>
,
controller: function($scope) {
    $scope.user = {};
    $scope.submitted = false;
    $scope.submitForm = function() {
        if ($scope.registerForm.$valid) {
            $scope.submitted = true;
        }
    };
}
.when("/login", {
    template: `
        <h2>Login</h2>
        <form name="loginForm" ng-submit="login()" novalidate>
            <label>Email:</label><br>
            <input type="email" ng-model="credentials.email" required
/><br><br>

            <label>Password:</label><br>
            <input type="password" ng-model="credentials.password" required
/><br><br>

            <button type="submit">Login</button>
        </form>
    `
})

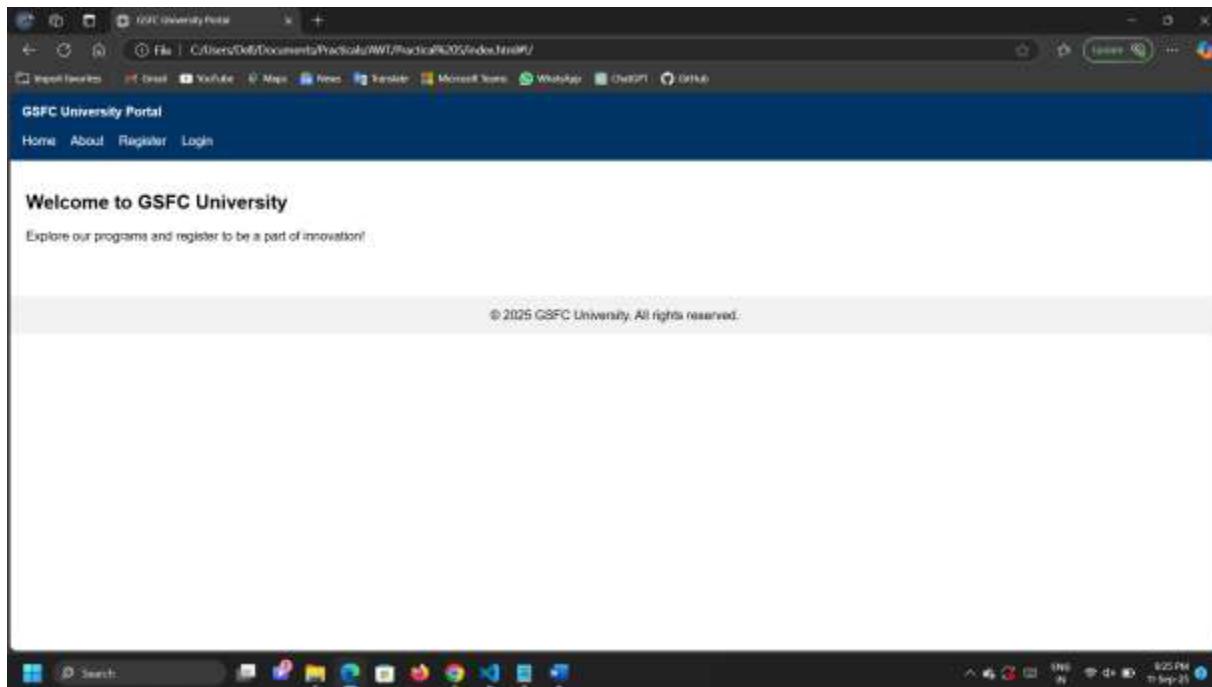
```

```

<p ng-if="loginSuccess">Login Successful!</p>
<p ng-if="loginError" class="error">Invalid credentials. Please
try again.</p>
,
controller: function($scope) {
  $scope.credentials = {};
  $scope.loginSuccess = false;
  $scope.loginError = false;

  $scope.login = function() {
    // Dummy login logic
    if (
      $scope.credentials.email === "student@gsfcuni.edu.in" &&
      $scope.credentials.password === "password"
    ) {
      $scope.loginSuccess = true;
      $scope.loginError = false;
    } else {
      $scope.loginError = true;
      $scope.loginSuccess = false;
    }
  };
}
.otherwise({ redirectTo: "/" });
});
</script>
</body>
</html>

```



GSFC University Portal

Home About Register Login

About GSFC University

GSFC University, established by GSFC Ltd., focuses on industry-oriented education with innovation at its core.

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GSFC University Portal

Home About Register Login

Register

Full Name:

Email:

Password:

Program:

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GSFC University Portal

Home About Register Login

Login

Email:

Password:

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