

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

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

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

    <footer>
        &copy; 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
/>
                    `
                })
            }
        })
    </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>

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        <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>

```






