

Lab Exercise: 9. Arrays and Routing using AngularJS

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Instructions: Odd no's (Q1, Q3), Even no's (Q2, Q3)

Note: Apply your creativity to design the templates

Aim:

To develop website using HTML, CSS, and AngularJS client-side Model View Controller Framework to demonstrate arrays and routing.

Description:

Q1: To do list

Design a dynamic "to-do list" to organize and prioritize your tasks using AngularJS. Also add a delete option at the right side of a list item, use a `<a>` element to simulate a button. Add a function to handle the click on the delete button.

Hint: use `push()` and `splice()` methods for insertion and deletion of array element.

- Call mom [del]
- Finish assignment [del]
- Prepare for presentation [del]
- laundry [del]
- ticket reservation [del]

Q2: Product management list

Design a dynamic product management list to organize the products using AngularJS. Also add a delete option at the right side of a list item, use a button element. Add a function to handle the click on the delete button. **Hint:** use `push()` and `splice()` methods for insertion and deletion of array element.

Products Information

Product Id	Product Name	Product Price	
1001	iPhoe6	65,000 INR	<input type="button" value="Delete"/>
1002	iPhone5	50,000 INR	<input type="button" value="Delete"/>
1003	iPhone6s	1,20,000 INR	<input type="button" value="Delete"/>

ID:

Name:

Price:

Q3: Personal Website

Design your own website using HTML, AngularJS Routing and CSS for your personal website as per your choice with the following pages and proper content including text, forms, media etc.

a. Main HTML program with AngularJS routing

b. Hyper Links

- Personal Details
- Academic Details
- Project / Internship Details
- Login Page
- Sign Up Page
- Contact Details

Source Code :

1)

```
<!DOCTYPE html>
<html ng-app="productApp">

<head>
  <title>Product Management</title>
  <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></scri
pt>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 20px;
    }

    h2 {
      text-align: center;
      margin-bottom: 20px;
    }

    table {
      width: 100%;
      border-collapse: collapse;
      margin-bottom: 20px;
    }

    th, td {
      border: 1px solid #ddd;
      padding: 8px;
      text-align: left;
    }

    th {
      background-color: #f2f2f2;
    }

    .input-container {
      display: flex;
      flex-direction: column; /* Align elements vertically */
      margin-bottom: 10px;
    }
```

```

.input-container input {
    margin-bottom: 10px; /* Add some space between input fields */
    padding: 5px;
}

.product-item button {
    background-color: #dc3545;
    color: rgb(237, 69, 69);
    border: none;
    padding: 5px 10px;
    border-radius: 3px;
    cursor: pointer;
}

.product-item button:hover {
    background-color: #bd0c20;
}

.b{
    text-align: center;
}
</style>
</head>

<body>
<div ng-controller="ProductController">
    <h2 class="b">Product Management</h2>
    <div class="input-container">
        <input type="text" ng-model="newProduct.id" placeholder="Product ID">
        <input type="text" ng-model="newProduct.name" placeholder="Product
Name">
        <input type="number" ng-model="newProduct.price"
placeholder="Product Price">
        <button ng-click="addProduct()">Add Product</button>
    </div>

    <table>
        <tr>
            <th>ID</th>
            <th>Name</th>
            <th>Price</th>
            <th>Action</th>
        </tr>
        <tr ng-repeat="product in products">
            <td>{{ product.id }}</td>
            <td>{{ product.name }}</td>
            <td>{{ product.price | currency }}</td>

```

```
        <td><button ng-click="deleteProduct($index)">Delete</button></td>
    </tr>
</table>
</div>

<script>
    angular.module('productApp', [])
        .controller('ProductController', ['$scope', function ($scope) {
            $scope.products = [];

            $scope.newProduct = {
                id: "",
                name: "",
                price: ""
            };

            $scope.addProduct = function () {
                $scope.products.push({
                    id: $scope.newProduct.id,
                    name: $scope.newProduct.name,
                    price: $scope.newProduct.price
                });
                $scope.newProduct = {
                    id: "",
                    name: "",
                    price: ""
                };
            };

            $scope.deleteProduct = function (index) {
                $scope.products.splice(index, 1);
            };
        }]);
</script>
</body>

</html>
```

2)

```
<!DOCTYPE html>
```

```
<html ng-app="myApp">
```

```
<head>
```

```
  <title>My Personal Website</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.min.js"></script>
```

```
  <style>
```

```
    body {
```

```
      font-family: Arial, sans-serif;
```

```
      margin: 0;
```

```
      padding: 0;
```

```
      background-color: #f1f1f1;
```

```
    }
```

```
    header {
```

```
      background-color: #333;
```

```
      color: white;
```

```
      padding: 10px;
```

```
      text-align: center;
```

```
    }
```

```
    nav {
```

```
      background-color: #555;
```

```
      padding: 10px;
```

```
      text-align: center;
```

```
    }
```

```
    nav a {
```

```
      color: white;
```

```
      text-decoration: none;
```

```
      margin-right: 10px;
```

```
    }
```

```
    .content {
```

```
      padding: 20px;
```

```
    }
```

```
    footer {
```

```
      background-color: #333;
```

```
      color: white;
```

```

padding: 10px;
text-align: center;
position: fixed;
bottom: 0;
width: 100%;
}
</style>
</head>

<body>
  <header>
    <h1>My Personal Website</h1>
  </header>

  <nav>
    <a href="#!personal">Personal Details</a>
    <a href="#!academic">Academic Details</a>
    <a href="#!projects">Project/Internship Details</a>
    <a href="#!login">Login</a>
    <a href="#!signup">Sign Up</a>
    <a href="#!contact">Contact Details</a>
  </nav>

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

  <footer>
    <p>&copy; 2024 My Personal Website</p>
  </footer>

  <script>
    var app = angular.module("myApp", ["ngRoute"]);
    app.config(function ($routeProvider) {
      $routeProvider
        .when("/personal", {
          templateUrl: "personal-details.html"
        })
        .when("/academic", {
          templateUrl: "academic-details.html"
        })
        .when("/projects", {
          template:"<h2>Project/Internship Details</h2><p>Project: Emotion
Monitoring System</p><p>Internship: data science and Machine Learning </p>"
        })
        .when("/login", {

```

```

        templateUrl: "login.htm"
    })
    .when("/signup", {
        templateUrl: "signup.html"
    })
    .when("/contact", {
        template:"<h2>Contact Details</h2><p>Email: <a
href='#'>bharathkumar22@karunya.edu.in</a></p><p>Phone: <a
href='#'>9999999999</a></p>"

    });
});
</script>
</body>

</html>

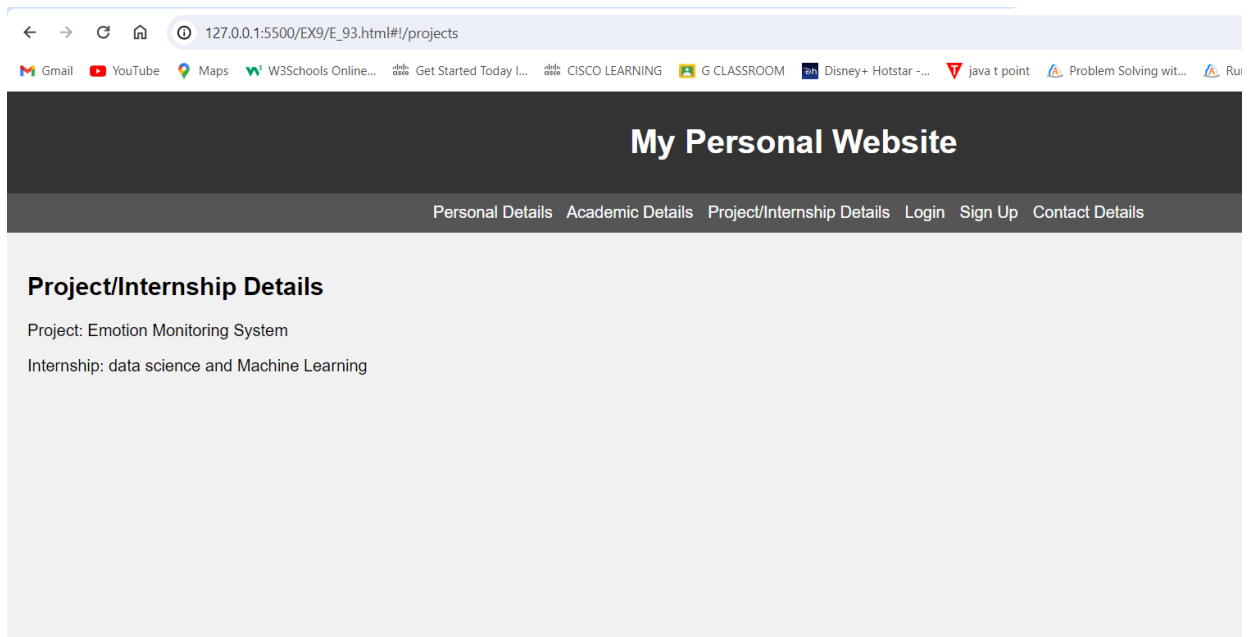
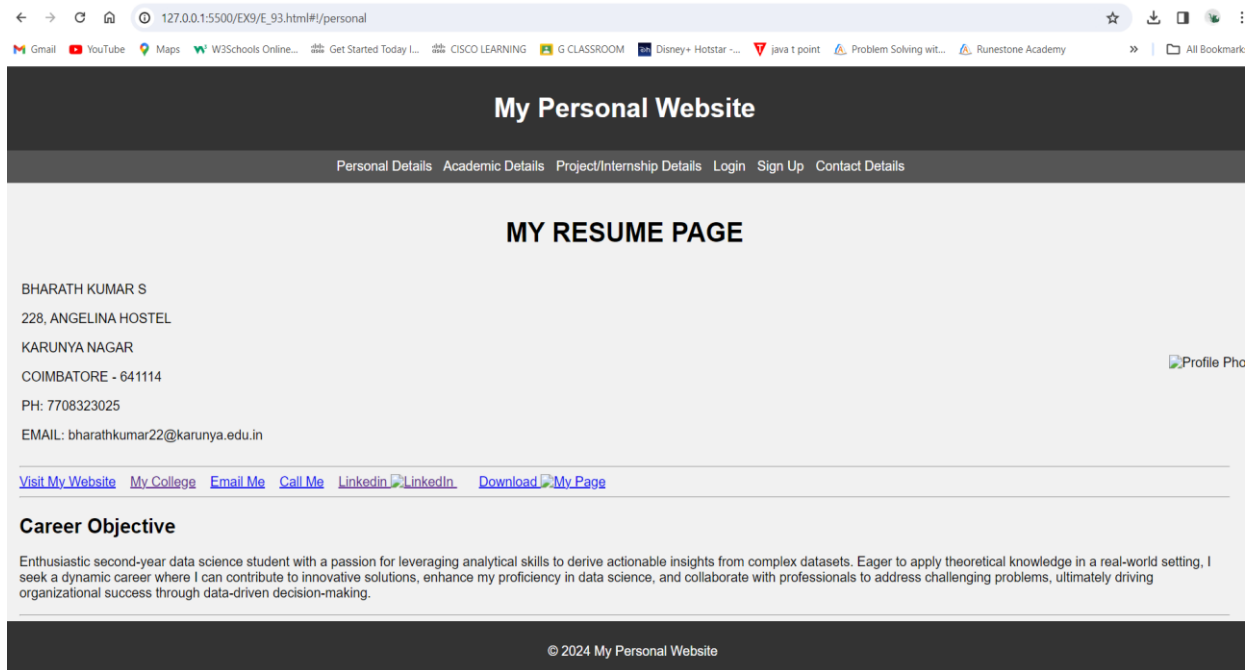
```

Output :

Product Management

Product ID
Product Name
Product Price
Add Product

ID	Name	Price	Action
bk123	Dell Laptop	\$120,000.00	Delete
Ak123	HP Laptop	\$50,000.00	Delete



Result:

Angular JS Routing is Successfully Implemented using `template` and `TemplateUrl`