SAVITRIBAI PHULE PUNE UNIVERSITY

S. Y. B. B. A. (C.A.) SEMESTER III
(CBCS 2019 PATTERN)

LAB BOOK

NAME : LALIT DEVIDAS PATIL

COLLEGE NAME: SINHGAD COLLEGE OF ARTS & COMMERCE WARJE PUNE

ROLL NO : 106   DIVISION:B   SEAT NO: | 1 | 3 | 2 | 8 | 5 |

ACADEMIC YEAR : 2023-24

Certificate

**This is to certify that
Mr. <u>PATIL LALIT DEVIDAS</u>**

**Seat Number_____of S.Y.BBA(CA) Sem- III has
Successfully completed Laboratory course
(Angular JS) in the Year . He has scored mark out of
10 (For Lab Book).**

Subject Teacher   **H.O.D./Coordinator**

Internal Examiner   **External Examiner**

Slip 11

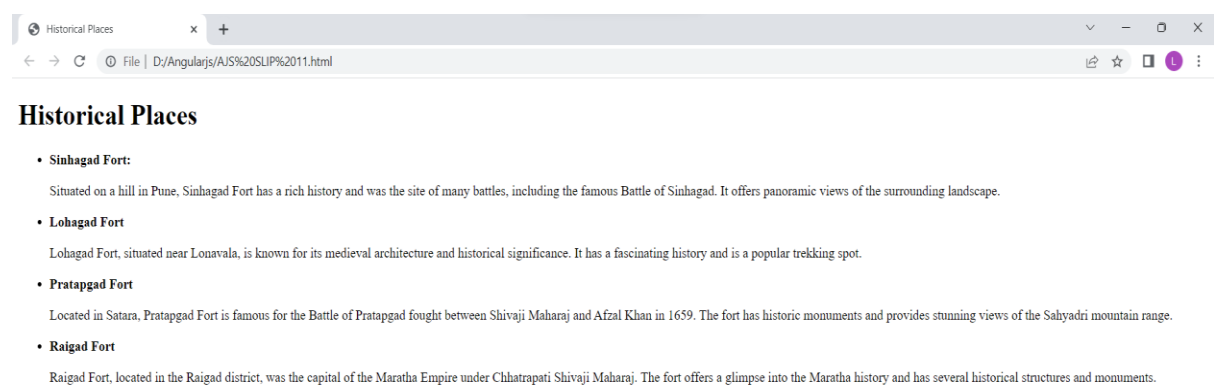**Q1-Using AngularJS Create a SPA that show History of some(4-8) Historical Places (use MVC).**

```
<!DOCTYPE html>
<html ng-app="historicalPlacesApp">
<head>
<title>Historical Places</title>
   <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
</head>
<body>
   <div ng-controller="HistoricalPlacesController">
      <h1>Historical Places</h1>
      <ul>
        <li ng-repeat="place in places">
           <strong>{{place.name}}</strong>
           <p>{{place.description}}</p>
        </li>
      </ul>
   </div>
   <script>
     var app = angular.module('historicalPlacesApp', []);
     app.controller('HistoricalPlacesController', function($scope) {
        $scope.places = [
          {
             name: 'Sinhagad Fort:',
             description: 'Situated on a hill in Pune, Sinhagad Fort has
a rich history and was the site of many battles, including the famous
Battle of Sinhagad. It offers panoramic views of the surrounding
landscape.'
          },
          {
             name: 'Lohagad Fort',
             description: 'Lohagad Fort, situated near Lonavala, is
known for its medieval architecture and historical significance. It has
a fascinating history and is a popular trekking spot.'
```

```
            },
            {
                name: 'Pratapgad Fort',
                description: 'Located in Satara, Pratapgad Fort is famous
for the Battle of Pratapgad fought between Shivaji Maharaj and Afzal
Khan in 1659. The fort has historic monuments and provides stunning
views of the Sahyadri mountain range.'
            },
            {
                name: 'Raigad Fort',
                description: ' Raigad Fort, located in the Raigad district,
was the capital of the Maratha Empire under Chhatrapati Shivaji
Maharaj. The fort offers a glimpse into the Maratha history and has
several historical structures and monuments.'
            }
        ];
    });
    </script>
</body>
</html>
```


Historical Places

- **Sinhagad Fort:**

  Situated on a hill in Pune, Sinhagad Fort has a rich history and was the site of many battles, including the famous Battle of Sinhagad. It offers panoramic views of the surrounding landscape.

- **Lohagad Fort**

  Lohagad Fort, situated near Lonavala, is known for its medieval architecture and historical significance. It has a fascinating history and is a popular trekking spot.

- **Pratapgad Fort**

  Located in Satara, Pratapgad Fort is famous for the Battle of Pratapgad fought between Shivaji Maharaj and Afzal Khan in 1659. The fort has historic monuments and provides stunning views of the Sahyadri mountain range.

- **Raigad Fort**

  Raigad Fort, located in the Raigad district, was the capital of the Maratha Empire under Chhatrapati Shivaji Maharaj. The fort offers a glimpse into the Maratha history and has several historical structures and monuments.
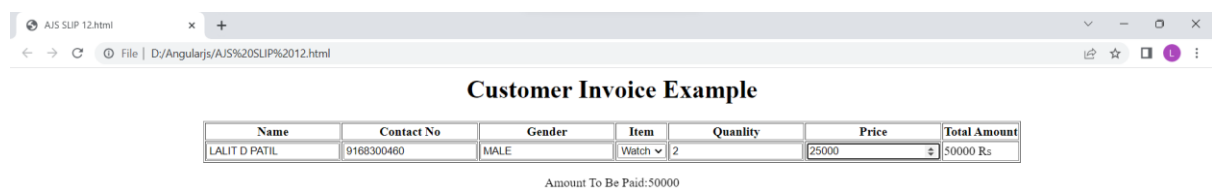
Slip 12

Q2-Using AngularJS Create a SPA for customer registration visiting a departmental store. Form should consists of fields such as name, contact no., gender, favourite item(to be selected from a list of items with Quantity) and suggestions. Display the Bill with total no of items selected and total amount to be paid.(use filter)

```
<DOCTYPE html>
<html ng-app="invoice">
<head>
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
<body>
<h1 align="center">Customer Invoice Example</h1>
<section class="row" ng-controller="InvoiceController">
<center>
<table border=1>
<tr><th>Name</th>
<th>Contact No</th>
<th>Gender</th>
<th>Item</th>
<th>Quanlity</th>
<th>Price</th>
<th>Total Amount</th>
</tr>
</center>
<tr ng-repeat="item in invoice.items">
<td><input type="text" ng-model="item.name"</td>
<td><input type="number" ng-model="item.contactno"></td>
<td><input type="text" ng-model="item.gender"></td>
<td>
<select ng-model="item.favorite">
<option>Tshirt</option>
<option>Jeans</option>
<option>Watch</option>
```

```html
<option>Shoes</option>
</select></td>
<td><input type="number" ng-model="item.qty"></td>
<td><input type="number"ng-model="item.price"></td>
<td>{{item.qty * item.price}} Rs </td>
</td></tr></table>
<p><center>Amount To Be Paid:{{total()}}</center></p>
</section>
<script>
var invoice=angular.module('invoice',[]);
invoice.controller('InvoiceController',function($scope){
$scope.invoice={items:[{name:"",contactno:"",gender:"",favorite:"",price:0,qty:0
}]
};
$scope.total = function(){
var total=0;
angular.forEach($scope.invoice.items,function(item){
total +=item.qty * item.price;
});
return total;
};
});
</script>
</body>
</html>
```

Customer Invoice Example

Name	Contact No	Gender	Item	Quanlity	Price	Total Amount
LALIT D PATIL	9168300460	MALE	Watch ▾ 2		25000	50000 Rs

Amount To Be Paid:50000

Slip 13

Q3-Using AngularJS create a SPA that accept the details of student and display mark sheet (roll_ no, student_ name, class, sub1, sub2, sub3, total, percentage, grade)

```
<!DOCTYPE html>
<html ng-app="studentApp">
<head>
   <title>Student Mark Sheet</title>
   <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
</head>
<body ng-controller="StudentController">
   <h1><center>Student Mark Sheet</center></h1>
   <center>
   <form>
     <label for="rollNo">Roll No:</label>
     <input type="text" id="rollNo" ng-model="student.rollNo"
required><br>
     <label for="studentName">Student Name:</label>
     <input type="text" id="studentName" ng-
model="student.studentName" required><br>
     <label for="class">Class:</label>
     <input type="text" id="class" ng-model="student.class"
required><br>
     <label for="sub1">Subject 1:</label>
     <input type="number" id="sub1" ng-model="student.sub1"
required><br>
     <label for="sub2">Subject 2:</label>
     <input type="number" id="sub2" ng-model="student.sub2"
required><br>
     <label for="sub3">Subject 3:</label>
     <input type="number" id="sub3" ng-model="student.sub3"
required><br>
     <button ng-click="calculateMarks()">Calculate</button>
   </form>
```

```
<h2>Mark Sheet</h2>
<p>Roll No: {{ student.rollNo }}</p>
<p>Student Name: {{ student.studentName }}</p>
<p>Class: {{ student.class }}</p>
<p>Subject 1: {{ student.sub1 }}</p>
<p>Subject 2: {{ student.sub2 }}</p>
<p>Subject 3: {{ student.sub3 }}</p>
<p>Total: {{ student.total }}</p>
<p>Percentage: {{ student.percentage }}%</p>
<p>Grade: {{ student.grade }}</p>
</center>
<script>
    angular.module('studentApp', [])
        .controller('StudentController', function ($scope) {
            $scope.student = {
                rollNo: '',
                studentName: '',
                class: '',
                sub1: 0,
                sub2: 0,
                sub3: 0,
                total: 0,
                percentage: 0,
                grade: ''
            };

            $scope.calculateMarks = function () {
                $scope.student.total = $scope.student.sub1 +
$scope.student.sub2 + $scope.student.sub3;
                $scope.student.percentage = ($scope.student.total /
3).toFixed(2);
                if ($scope.student.percentage >= 90) {
                    $scope.student.grade = 'A+';
                } else if ($scope.student.percentage >= 80) {
                    $scope.student.grade = 'A';
                } else if ($scope.student.percentage >= 70) {
                    $scope.student.grade = 'B';
                } else if ($scope.student.percentage >= 60) {
                    $scope.student.grade = 'C';
```

```
            } else {
                $scope.student.grade = 'F';
            }
        };
    });
</script>
</body>
</html>
```


S

Slip 14

Q4-Using AngularJS Create a SPA to take the information of a customer for booking a plan consisting of fields such as name, address, contact no., gender, Date of booking, date of journey, no of passenger, name of passenger etc. Display the e –Ticket

```
<!DOCTYPE html>
<html>
<head>
    <title>CUSTOMER BOOKING SPA</title>
    <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
</head>
<body ng-app="bookingApp" ng-controller="BookingController">
  <center>
 <h1>Customer Booking Form</h1>
    <form name="bookingform" ng-submit="generateETicket()">
        <label for="name">Name:</label>
        <input type="text" id="name" ng-model="customer.name"
required><br>
        <label for="address">Address:</label>
        <input type="text" id="address" ng-
model="customer.address" required><br>
        <label for="contactNo">Contact No:</label>
        <input type="text" id="contactNo" ng-
model="customer.contactNo" required><br>
        <label for="gender">Gender:</label>
        <select id="gender" ng-model="customer.gender">
          <option value="Male">Male</option>
          <option value="Female">Female</option>
        </select><br>
        <label for="bookingDate">Date Of Booking:</label>
        <input type="date" id="bookingDate" ng-
model="customer.bookingDate" required><br>
        <label for="journeyDate">Date Of Journey:</label>
```

```html
<input type="date" id="journeyDate" ng-model="customer.journeyDate" required><br>
    <label for="passengerCount">No of Passengers:</label>
    <input type="number" id="passengerCount" ng-model="customer.passengerCount" required><br>
    <label for="boardingStation">Boarding Station:</label>
    <input type="text" id="boardingStation" ng-model="customer.boardingStation" required><br>
    <label for="reachingStation">Reaching Station:</label>
    <input type="text" id="reachingStation" ng-model="customer.reachingStation" required><br>
    </div>
    <button type="submit">Generate E-Ticket</button>
  </form>
  <div ng-show="eTicketGenerated">
    <h2>Your E-Ticket:</h2>
    <p><strong>Name:</strong> {{ customer.name }}</p>
    <p><strong>Address:</strong> {{ customer.address }}</p>
    <p><strong>Contact No:</strong> {{ customer.contactNo }}</p>
    <p><strong>Gender:</strong> {{ customer.gender }}</p>
    <p><strong>Date of Booking:</strong> {{ customer.bookingDate }}</p>
    <p><strong>Date of Journey:</strong> {{ customer.journeyDate }}</p>
    <p><strong>Boarding Station:</strong> {{ customer.boardingStation }}</p>
    <p><strong>Reaching Station:</strong> {{ customer.reachingStation }}</p>
    <p><strong>Number of Passengers:</strong> {{ customer.passengerCount }}</p>
    <ul>
      <li ng-repeat="passenger in customer.passengerNames">{{ passenger }}</li>
    </ul>
  </div>
</center>
  <script>
    var app = angular.module("bookingApp", []);
```

```javascript
app.controller("BookingController", function ($scope) {
    $scope.customer = {
        name: "",
        address: "",
        contactNo: "",
        gender: "Male",
        bookingDate: "",
        journeyDate: "",
        passengerCount: 1,
        boardingStation: "",
        reachingStation: "",
        passengerNames: [""]
    };
    $scope.eTicketGenerated = false;
    $scope.generateETicket = function () {
        $scope.eTicketGenerated = true;
    };
});
</script>
</body>
</html>
```

Slip 15

Q-5 Using AngularJS Create a SPA for Bus Ticket Reservation consisting of fields : Name, Address, contact no, source station(Dropdown list), Destination station, Date of booking, date of journey, no of passenger, name of passenger, gender of passenger etc. Display the e –Ticket.

```
<!DOCTYPE html>
<html ng-app="busReservationApp">
<head>
 <title>Bus Ticket Reservation</title>
 <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
</head>
<body ng-controller="BusReservationController">
<Center>
 <h1>Bus Ticket Reservation</h1>
 <form>
   <label for="name">Passenger Name:</label>
   <input type="text" id="name" ng-model="reservation.name"
required><br>
   <label for="address">Address:</label>
   <input type="text" id="address" ng-model="reservation.address"
required><br>
   <label for="contact">Contact No:</label>
   <input type="tel" id="contact" ng-model="reservation.contact"
required><br>
   <label for="source">Source Station:</label>
   <select id="source" ng-model="reservation.source" required>
    <option value="PUNE">PUNE</option>
    <option value="SURAT">SURAT</option>
    <option value="JALGAON">JALGAON</option>
    <option value="NASHIK">NASHIK</option>
   </select><br>
   <label for="destination">Destination Station:</label>
```

```html
<input type="text" id="destination" ng-model="reservation.destination" required><br>
    <label for="bookingDate">Date of Booking:</label>
    <input type="date" id="bookingDate" ng-model="reservation.bookingDate" required><br>
    <label for="journeyDate">Date of Journey:</label>
    <input type="date" id="journeyDate" ng-model="reservation.journeyDate" required><br>
    <label for="passengerCount">No. of Passengers:</label>
    <input type="number" id="passengerCount" ng-model="reservation.passengerCount" required><br>
    <div ng-repeat="passenger in reservation.passengers">
      <label for="passengerGender{{$index}}">Gender:</label>
      <select id="passengerGender{{$index}}" ng-model="passenger.gender" required>
        <option value="Male">Male</option>
        <option value="Female">Female</option>
      </select>
    </div>
    <button ng-click="generateETicket()">Generate E-Ticket</button>
  </form>
  <div ng-show="eTicket">
   <h2>Your E-Ticket</h2>
   <p><strong>Name:</strong> {{ reservation.name }}</p>
   <p><strong>Address:</strong> {{ reservation.address }}</p>
   <p><strong>Contact No:</strong> {{ reservation.contact }}</p>
   <p><strong>Source Station:</strong> {{ reservation.source }}</p>
   <p><strong>Destination Station:</strong> {{ reservation.destination }}</p>
   <p><strong>Date of Booking:</strong> {{ reservation.bookingDate }}</p>
   <p><strong>Date of Journey:</strong> {{ reservation.journeyDate }}</p>
   <p><strong>No. of Passengers:</strong> {{ reservation.passengerCount }}</p>
   <ul>
```

```
      <li ng-repeat="passenger in reservation.passengers">
        <p><strong>Gender:</strong> {{ passenger.gender }}</p>
      </li>
    </ul>
  </div>
</center>
 <script>
   angular.module('busReservationApp', [])
     .controller('BusReservationController', function($scope) {
       $scope.reservation = {
         passengers: [{}]
       };
       $scope.generateETicket = function() {
         $scope.eTicket = true;
       };
       $scope.addPassenger = function() {
         $scope.reservation.passengers.push({});
       };
     });
 </script>
</body>
</html>
```

Slip 16

Q-6 Using AngularJS display the student details who are live in pune in Table format (using ng-repeat directive, use Array to store data, use filter).

```html
<!DOCTYPE html>
<html ng-app="studentApp">
<head>
 <title>Student Details</title>
 <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
</head>
<body ng-controller="StudentController">
 <h1>Student Details in Pune</h1>
 <table border="1" >
  <thead>  <tr>
    <th>Name</th>
    <th>City</th> </tr>  </thead><tbody>
   <tr ng-repeat="student in students | filter: {city: 'Pune'}">
    <td>{{ student.name }}</td>
    <td>{{ student.city }}</td>  </tr></tbody> </table>
 <script>
  angular.module('studentApp', [])
   .controller('StudentController', function($scope) {
    $scope.students = [
     { name: 'Lalit', city: 'Pune' },
     { name: 'Rukum', city: 'Mumbai' },
     { name: 'Sagar', city: 'Pune'},
     { name: 'Rohit', city: 'Delhi' },
     { name: 'Kishan', city: 'Pune' }
    ];
   });
 </script>
</body>
</html>
```
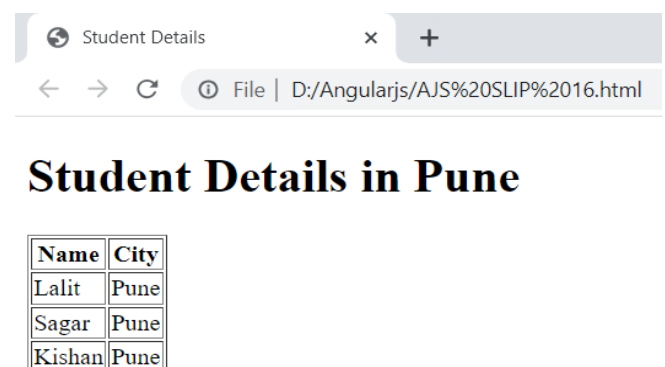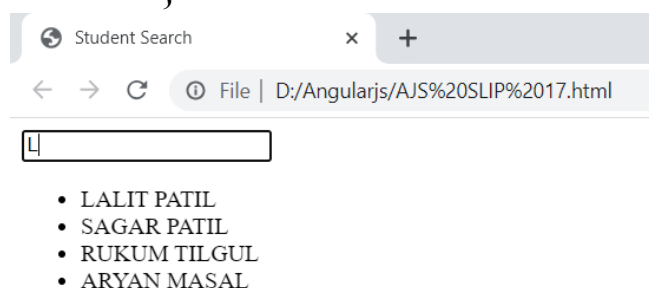
Slip 17

Q-17 Write an AngularJS script to search student name according to the character typed and display details(use array and filter).

```html
<!DOCTYPE html>
<html ng-app="studentApp">
<head>
  <title>Student Search</title>
  <script src="
https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.
js "></script>
</head>
<body ng-controller="StudentController">
  <input type="text" ng-model="searchName" placeholder="Search
student name">
  <ul>
    <li ng-repeat="student in students | filter:searchName">
      {{ student.name }}
    </li></ul>
  <script>
    var app = angular.module('studentApp', []);
    app.controller('StudentController', function($scope) {
      $scope.students = [
        { name: 'LALIT PATIL'},
         { name: 'SAGAR PATIL'},
        { name: 'KISHAN VISHWAKARMA'},
        { name: 'RUKUM TILGUL'},
        { name: 'ARYAN MASAL'},
        { name: 'NIRANJAN SHINDE'}
      ];
    });
  </script>
</body>
</html>
```


17

Slip 18

Q-18 Using AngularJS create a SPA that shows Teacher Profile who are teaching SYBBA (CA) with photo.

```
<!DOCTYPE html>
<html ng-app="teacherApp">
<head>
  <title>Teacher Profiles</title>
  <script
src="https://code.angularjs.org/1.8.2/angular.js"></script>
  <style>
    .teacher-container {
      display: flex;
      flex-wrap: wrap;
      justify-content: center;
    }
    .teacher-profile {
      width: 150px;
      margin: 10px;
      text-align: center;
    }
    .teacher-profile img {
      max-width: 100%;
      height: auto;
    }
  </style>
</head>
<body ng-controller="TeacherController as teacherCtrl">
  <center><h1>SYBBA (CA) Teacher Profiles</h1></center>
  <div class="teacher-container">
    <div class="teacher-profile" ng-repeat="teacher in
teacherCtrl.teachers">
      <img ng-src="{{teacher.photo}}" alt="{{teacher.name}}"
/>
      <h2>{{teacher.name}}</h2>
      <p>{{teacher.subject}}</p>
    </div>
  <script>
```

```
var app = angular.module('teacherApp', []);
app.controller('TeacherController', function() {
    this.teachers = [
        {
            name: 'Prof.Kanchan Pavate',
            subject: 'Digital Marketing',
            photo:
'https://cdn.pixabay.com/photo/2015/10/05/22/37/blank-profile-picture-973460_1280.png'
        },
        {
            name: 'Prof.Kanchan Pavate',
            subject: 'Data Structure',
            photo:
'https://cdn.pixabay.com/photo/2015/10/05/22/37/blank-profile-picture-973460_1280.png'
        },
        {
            name: 'Prof.Dipa Mokashi',
            subject: 'Software Engineering',
            photo:
'https://cdn.pixabay.com/photo/2015/10/05/22/37/blank-profile-picture-973460_1280.png'
        },
        {
            name: 'Prof.Dipa Mokashi',
            subject: 'Angular JS',
            photo:
'https://cdn.pixabay.com/photo/2015/10/05/22/37/blank-profile-picture-973460_1280.png'
        },
        {
            name: 'Prof.Pradeep Shitole',
            subject: 'Big Data',
            photo:
'https://cdn.pixabay.com/photo/2015/10/05/22/37/blank-profile-picture-973460_1280.png'
        }
    ];
```

```
        });
    </script>
</body>
</html>
```
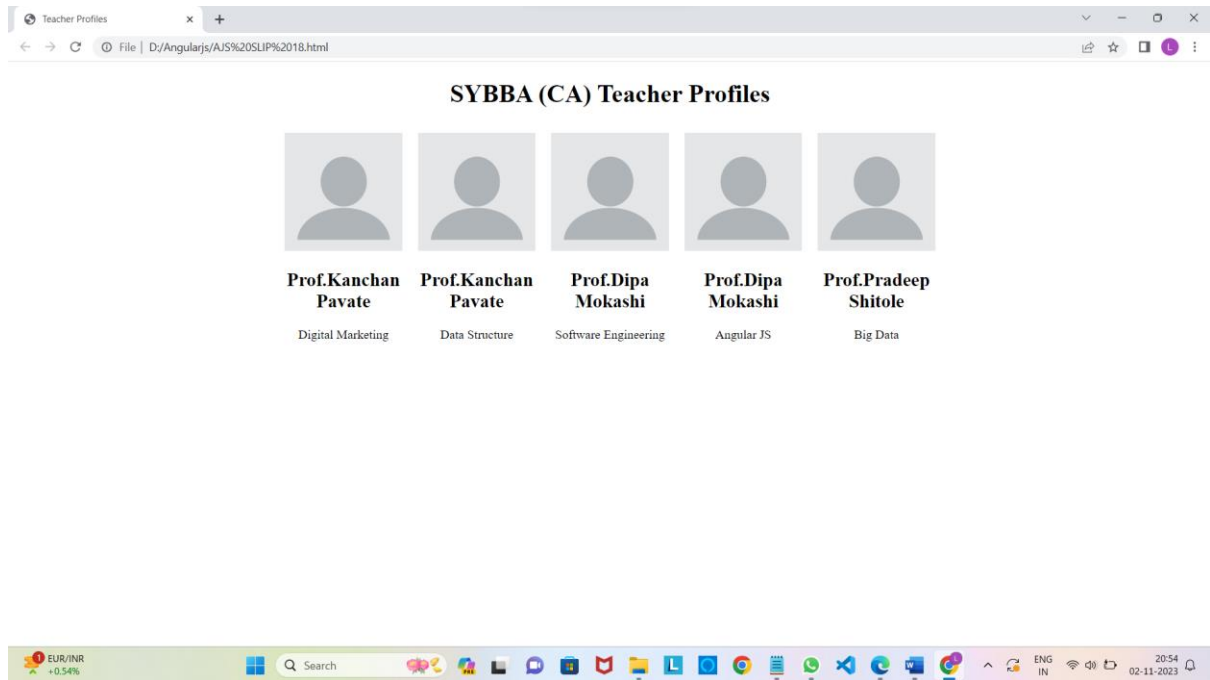
Slip 19

Q-19 Using AngularJS display the Employee details order by salary in Table format (using ng-repeat directive, use Array to store data, use filter)

```html
<!DOCTYPE html>
<html ng-app="employeeApp">
<head>
  <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
</head>
<body ng-controller="EmployeeController">
<h1> Employee Details order By Salary</h1>
  <table border="1">
    <thead> <tr>
        <th>Name</th>
        <th>Salary</th>
      </tr></thead>
    <tbody>
      <tr ng-repeat="employee in employees | orderBy: 'salary'">
        <td>{{ employee.name }}</td>
        <td>{{ employee.salary }}</td>
      </tr>  </tbody>
  </table>
  <script>
    var app = angular.module("employeeApp", []);
    app.controller("EmployeeController", function($scope) {
      $scope.employees = [
        { name: "XYZ", salary: 30 },
        { name: "ABC", salary: 500 },
        { name: "PQR", salary: 45},
      ];
    });
  </script>
</body>
</html>
```
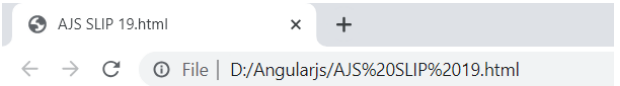
Employee Details order By Salary

Name	Salary
XYZ	30
PQR	45
ABC	500

Slip 20

Q-20 Using AngularJS create a SPA that to accept the details such as name, mobile number, pin-code and email address and make validation. Name should contain character only, mobile number should contain only 10 digit, Pin code should contain only 6 digit, email id should contain only one @, . Symbol.

```
<!DOCTYPE html>
<html ng-app="myApp">
<head>
  <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
</head>
<body ng-controller="myController">
<center>
<h1>Validation</h1>
  <form name="myForm">
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" ng-model="user.name" required ng-pattern="/^[a-zA-Z\s]*$/">
    <div ng-show="myForm.name.$invalid && myForm.name.$dirty">
      <span ng-show="myForm.name.$error.required">Name is required.</span>
      <span ng-show="myForm.name.$error.pattern">Name should contain only characters.</span>
    </div><br>
    <label for="mobile">Mobile Number:</label>
    <input type="text" id="mobile" name="mobile" ng-model="user.mobile" required ng-pattern="/^\d{10}$/">
    <div ng-show="myForm.mobile.$invalid && myForm.mobile.$dirty">
      <span ng-show="myForm.mobile.$error.required">Mobile number is required.</span>
      <span ng-show="myForm.mobile.$error.pattern">Mobile number should contain 10 digits.</span>
    </div><br>
```

```html
<label for="pin">Pin Code:</label>
<input type="text" id="pin" name="pin" ng-model="user.pin"
required ng-pattern="/^\d{6}$/">
<div ng-show="myForm.pin.$invalid && myForm.pin.$dirty">
  <span ng-show="myForm.pin.$error.required">Pin code is
required.</span>
  <span ng-show="myForm.pin.$error.pattern">Pin code
should contain 6 digits.</span>
</div><br>
<label for="email">Email Address:</label>
<input type="email" id="email" name="email" ng-
model="user.email" required>
<div ng-show="myForm.email.$invalid &&
myForm.email.$dirty">
  <span ng-show="myForm.email.$error.required">Email
address is required.</span>
  <span ng-show="myForm.email.$error.email">Invalid email
address.</span>
</div><br>
<button type="submit" ng-
disabled="myForm.$invalid">Submit</button>
</form></body></center>
<script>
  var app = angular.module('myApp', []);
  app.controller('myController', function ($scope) {
    $scope.user = {};
  });
</script>
</html>
```

Validation

Name: LALIT D PATIL
Mobile Number: 9168300460
Pin Code: 411041
Email Address: patillalit12112920@gmail.co
Submit

Slip 21

Q-21 Using AngularJS create a SPA that to accept the details of doctor(5-6) having field's dno, dname, address, and phone number. Display those in table format. (use MVC.)

```
<!DOCTYPE html>
<html>
  <head>
    <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.0/angular.min.js"></script>
  </head>
  <body ng-app="mainApp" ng-controller="docController">
<center>
  <h2>Doctor Information Details Form</h2>
  <div>
  <form ng-submit="todoAdd()">
    <table border="1">
      <tr>
        <td>Enter the Doctor Number</td>
        <td><input type="number" name="docno" ng-model="docno"></td>
      </tr>
<tr>
        <td>Enter the Doctor Name </td>
        <td>
        <input type="text" name="docname" ng-model="docname">
        </td>
      </tr>
 <tr>
        <td>Enter the Doctor Address </td>
        <td><input type="text" name="docaddress" ng-model="docaddress"> </td>
      </tr>
      <tr>
        <td>Enter Phone Number</td>
```

```html
      <td> <input type="number" name="phone" ng-model="phone"></td>
    </tr>
    <tr>
      <td>Enter the Doctor Specialization</td>
      <td> <input type="text" name="docspl" ng-model="docspl"></td>
    </tr><tr>
      <td> <input type="submit" value="Add">
      </td>
</tr>
    </table>
  </form>
  </div>
  <div>
  <br><br>
    Doctor Details<br><br>
    <table border="1">
      <tr ng-repeat="x in todoList">
        <td>{{x.doctno}}</td>
        <td>{{x.name}}</td>
        <td>{{x.address}}</td>
        <td>{{x.phone}}</td>
        <td>{{x.spl}}</td>
      </tr></table> </div>
</center>
  <script>
  var mainApp = angular.module("mainApp", []);
  mainApp.controller('docController', function ($scope) {
  $scope.todoList=[{doctno:'Doctor no',name:'Doctor Name',address:'Address',phone:'Phone no',spl:'Speciality'}];
  $scope.todoAdd=function()
  {
    if($scope.docno!="" && $scope.docname!="" && $scope.docaddress!="" && $scope.phone!="" && $scope.docspl!="")
    {
      $scope.todoList.push({doctno:$scope.docno, name:$scope.docname, address:$scope.docaddress, phone:$scope.phone, spl:$scope.docspl});
```

```
        $scope.docno="";
        $scope.docname="";
        $scope.docaddress="";
        $scope.phone="";
        $scope.docspl="";
    }
}
  $scope.showval = false;
  $scope.isShow = function (param) {
  if (param == "show") {
  $scope.showval = true;
  }  }
});
</script>
</body>
</html>
```


Doctor Information Details Form

Enter the Doctor Number	123456789
Enter the Doctor Name	Dr.PQR
Enter the Doctor Address	SRQ
Enter Phone Number	987654321
Enter the Doctor Specialization	LMN
Add	

Doctor Details

Doctor no	Doctor Name	Address	Phone no	Speciality
123456789	Dr.PQR	SRQ	987654321	LMN

Slip 22

Q-22 Using AngularJS create a SPA that accept Voters details and check proper validation for (name, age, and nationality) as Name should be in upper case letters, Age should not be less than 18 yrs and Nationality should be Indian.

```html
<!DOCTYPE html>
<html ng-app="voterApp">
<head>
   <title>Voter Registration</title>
   <script
src="https://code.angularjs.org/1.8.2/angular.js"></script>
</head>
<body ng-controller="VoterController">
   <form name="voterForm">
     <div>
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" ng-
model="voter.name" ng-change="validateName()">
     </div>  <div>
        <label for="age">Age:</label>
        <input type="number" id="age" name="age" ng-
model="voter.age" ng-change="validateAge()">
     </div><div>
        <label for="nationality">Nationality:</label>
        <input type="text" id="nationality" name="nationality" ng-
model="voter.nationality" ng-change="validateNationality()">
     </div> <div>
        <p ng-show="error">{{error}}</p>
     </div>
     <button ng-disabled="voterForm.$invalid" ng-
click="submitForm()">Submit</button>
   </form>
   <script>
     var app = angular.module('voterApp', []);
     app.controller('VoterController', function ($scope) {
        $scope.voter = {};
```

```javascript
        $scope.error = '';
        $scope.validateName = function () {
            var name = $scope.voter.name;
            if (name && name === name.toUpperCase()) {
                $scope.error = '';
            } else {
                $scope.error = 'Name should be in uppercase letters.';
            }
        };
        $scope.validateAge = function () {
            var age = $scope.voter.age;
            if (age && age >= 18) {
                $scope.error = '';
            } else {
                $scope.error = 'Age should not be less than 18 years.';
            }
        };
        $scope.validateNationality = function () {
            var nationality = $scope.voter.nationality;
            if (nationality && nationality === 'Indian') {
                $scope.error = '';
            } else {
                $scope.error = 'Nationality should be Indian.';
            }
        };
        $scope.submitForm = function () {
            alert('Form
submitted!');
        };
    });
    </script>
</body>
</html>
```
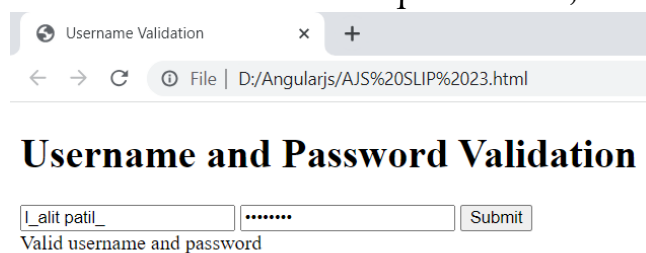
Slip 23

Q-23 Using AngularJS create a SPA to carry out validation for a username entered in textbox. If the textbox is blank, alert 'Enter username'. If the number of characters is less than three, alert ' Username is too short'. If value entered is appropriate the print 'Valid username' and password should be minimum 8 characters.

```html
<!DOCTYPE html>
<html ng-app="myApp">
<head><title>Username Validation </title> <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angula
r.min.js"></script></head>
<body ng-controller="myController">
   <h1>Username and Password Validation</h1>
   <input type="text" ng-model="username" placeholder="Enter
username">
   <input type="password" ng-model="password"
placeholder="Enter password">
   <button ng-click="validate()">Submit</button>
   <div ng-show="message">{{ message }}</div><script>
      var app = angular.module('myApp', []);
      app.controller('myController', function($scope) {
         $scope.validate = function() {
            if (!$scope.username) {
               $scope.message = 'Enter username';
            } else if ($scope.username.length < 3) {
               $scope.message = 'Username is too short';
            } else if ($scope.password.length < 8) {
               $scope.message = 'Password is too short';
            } else {
               $scope.message = 'Valid username and password';
            } }; });
   </script>
</body>
</html>
```


Username and Password Validation

I_alit patil_   ••••••••   Submit
Valid username and password

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Slip 24

Q-24 Using AngularJS create a SPA to fetch suggestions when is user is typing in a textbox. (eg like google suggestions. Hint create array of suggestions and matching string will be displayed).

```html
<!DOCTYPE html>
<html ng-app="suggestionApp">
<head> <title>Suggestion App</title>
 <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
 <style>
  ul {
    list-style: none;
    padding: 0;  }
  li {
    padding: 8px;
    border: 1px solid #ccc;
    margin: 5px 0;  }
 </style></head><body>
 <div ng-controller="SuggestionController">
   <input type="text" ng-model="search" placeholder="Type to search">  <ul>
     <li ng-repeat="suggestion in suggestions | filter:search">{{ suggestion }}</li>
   </ul> </div>
 <script>
   angular.module('suggestionApp', [])
     .controller('SuggestionController', function($scope) {
     $scope.suggestions = ['Apple', 'Banana', 'Cherry', 'Date', 'Fig', 'Grape', 'Kiwi', 'Lemon'];
     $scope.search = '';
   });
 </script>
</body>
</html>
```
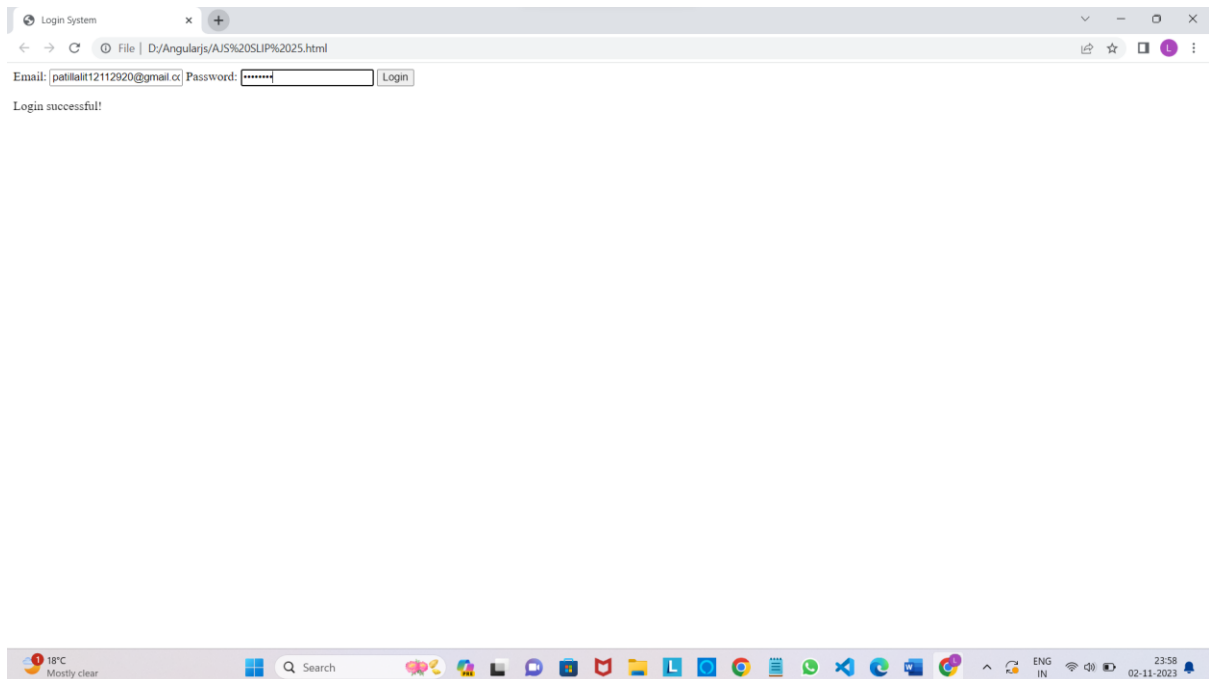
Slip 25

Q-25 Create an HTML form Using AngularJS for Login system and validate email ID using Regular Expression and password should be minimum 8 characters.

```
<!DOCTYPE html>
<html ng-app="loginApp">
<head>
<title> Login System</title>
  <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
</head>
<body ng-controller="loginController">
  <form name="loginForm" ng-submit="submitForm()"
novalidate>
    <label for="email">Email:</label>
    <input type="email" id="email" name="email" ng-model="user.email" ng-pattern="/^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/" required>
    <span ng-show="loginForm.email.$error.required && loginForm.email.$dirty">Email is required.</span>
    <span ng-show="loginForm.email.$error.email && loginForm.email.$dirty">Invalid email address.</span>
    <label for="password">Password:</label>
    <input type="password" id="password" name="password" ng-model="user.password" ng-minlength="8" required>
    <span ng-show="loginForm.password.$error.required && loginForm.password.$dirty">Password is required.</span>
    <span ng-show="loginForm.password.$error.minlength && loginForm.password.$dirty">Password must be at least 8 characters long.</span>
    <button type="submit">Login</button>
  </form>
  <div ng-show="loginSuccessful">
    <p>Login successful!</p>
```

```
</div>
<script>
  angular.module('loginApp', []).controller('loginController',
function ($scope) {
    $scope.user = {
      email: '',
      password: ''
    };
    $scope.submitForm = function () {
      if ($scope.loginForm.$valid) {
        $scope.loginSuccessful = true;
      }
    };
  });
</script>
</body>
</html>
```

Email: patillalit12112920@gmail.co Password: •••••••• Login

Login successful!

Slip 26

Q-26 Using AngularJS create a SPA for eLearning System.

```html
<!DOCTYPE html>
<html>
<head><title>E-Learning System</title>
<script src =
"https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
</script>
<script src =
"https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angularroute.min.js"></script>
</head>
<h1 style="background-color:#900C3F" align="center">E-
Learning
System</H1>
<div ng-view></div>
<body>
<div ng-app = "mainApp">
<p><a href ="#jw">Home</a></p>
<p><a href ="#ro">Management</a></p>
<p><a href ="#ph">Staff</a></p>
<div ng-view></div>
<script type ="text/ng-template" id ="home.html">
<h1 style="background-color:powderblue;">welcome is Home
page</p>
</h1>
{{message}}
</script>
<script type ="text/ng-template" id ="management.html">
<h1 style="background-color:red;">welcome to management
page</h1>
{{message}}
</script>
<script type ="text/ng-template" id ="staff.html">
<h1 style="background-color:green;">Welcome to Staff page</h1>
{{message}}
</script>
```

```
</div>
<script>
var mainApp = angular.module("mainApp", ['ngRoute']);
mainApp.config(['$routeProvider', function($routeProvider) {
$routeProvider
.when('/jw', {
templateUrl: 'home.html',controller: 'jwController'
})
.when('/ro', {
templateUrl: 'management.html',controller: 'roController'
})
.when('/ph', {
templateUrl: 'staff.html',controller: 'phController'
})
}]);
mainApp.controller('jwController', function($scope) {
$scope.message = "Welcome to Home";
});
mainApp.controller('roController', function($scope) {
$scope.message = "Welcome to Management";
});
mainApp.controller('phController', function($scope) {
$scope.message = "Welcome to Staff";
});
</script>
</body>
</html>
```
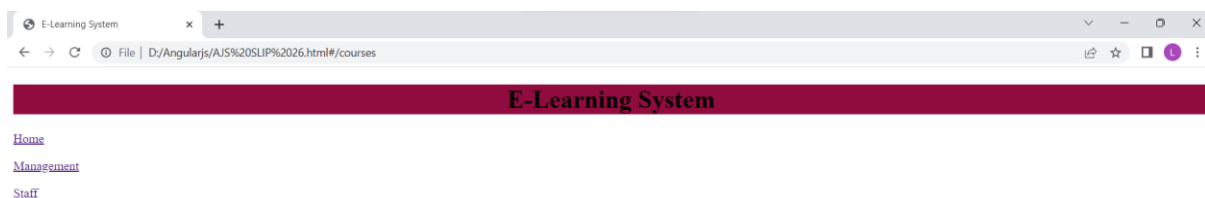
Slip 27

Q-27 Using AngularJS create a SPA for a Recipe Book.

```
<!DOCTYPE html>
<html>
<head>
<title>Recipe Book</title>
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.0/angula
r.min.js"></script>
<script>
var app = angular.module("ngifApp",[])
app.controller("ngifctrl",function($scope)
{
$scope.Aitems=['Indian Cuisine','Italian','Chinese Cuisine'];
$scope.Aselected=['Indian Cuisine','Italian','Chinese Cuisine'];
$scope.A1items=['Konkani cuisine','Kathiawadi cuisine','Sindhi
cuisine'];
$scope.A1selected=['Konkani cuisine','Kathiawadi cuisine','Sindhi
cuisine'];
$scope.A2items=['Bruschetta','Margherita Pizza','Pasta Con
Pomodoro E Basilico'];
$scope.A2selected=['Bruschetta','Margherita Pizza','Pasta Con
Pomodoro E Basilico'];
$scope.A3items=['Dim Sums','Spring Rolls','Honey Chilli Potato'];
$scope.A4selected=['Dim Sums','Spring Rolls','Honey Chilli
Potato'];
$scope.isvisible = false;
$scope.show = function(){
$scope.isvisible = $scope.isvisible ? false : true;
};
});
</script>
<style>
.name{
position:absolute;
top:0%;
left:30%;
```

```
font-size:50px;
}
.text{
position:absolute;
top:22%;
left:40%;
font-size:23px;
}
.text2{
position:absolute;
top:40%;
left:40%;
font-size:23px;
}
.recipe{
position:absolute;
font-size:23px;
}
</style>
</head>
<body style="background-color:rgb(113, 138, 161); align:center"
ng-app="ngifApp" >
<div class="name">
<h4 style="font-family:Arial;color:black"><u><b><center>Chef
Recipe Book</u></h4></center>
</div>
<div class="text">
<h2 style="font-family:Arial;color:black"><center><b>List of
cuisines :-</b></center>
</div>
<div class="text2">
<div ng-controller="ngifctrl">
Select the cuisine : <select ng-model="Aselected" ng-options="item
for item in Aitems" >
</select><br>
<div ng-if="Aselected=='Indian Cuisine'">
Select the Dish : <select ng-model="A1selected" ng-options="item
for item in A1items" >
</select><br>
```

```
<div class="recipe" ng-if="A1selected=='Konkani cuisine'">
<b>You have Selected Konkani cuisine.</b><br>
<input type="button" value="Show Recipe" ng-click="show()">
<p ng-show="isvisible">
The Konkan regions of Goa and Maharashtra bring to us some hot,
spicy and sour delicacies like Kokum, Tirphal (green Sinchuan
pepper),
Tepla ambat (fish curry), Kolmbo sambar with Kadamb (idli-like),
etc.
This cuisine is still not widely savoured by people outside of the
Konkan region.
</p>
</div>
<div class="recipe" ng-if="A1selected=='Kathiawadi cuisine'">
<b>You have Selected Kathiawadi cuisine.</b><br>
<input type="button" value="Show Recipe" ng-click="show()">
<p ng-show="isvisible">
Unlike the infamous sweet Gujarati food, the Kathiawadi region of
Gujarat
offers spicy food cooked on a wood-fire. Some distinct food items
being
served here are Khichdi, Lasaniya batata (potato) cooked with chillies
and garlic, sev tamatar sabzi (tomato curry topped with sev) with
bhakri
bread and Dakor na gota fritters made of fenugreek leaves and gram
flour.
</p>
</div>
<div class="recipe" ng-if="A1selected=='Sindhi cuisine'">
<b>You have Selected Sindhi cuisine.</b><br>
<input type="button" value="Show Recipe" ng-click="show()">
<p ng-show="isvisible">
You just cannot miss out on their most famous kadi-khichadi which
should
definitely be on every foodie's bucketlist apart from that Sindhi
Cuisine
consists of hearty dishes like Dal Pakwan, Koki Papad, Seyun Patata,
Chaap-Chola and Saibhaji. A typical Sindhi meal is not that spicy,
and
```

is usually made of wheat bread, rice along with dry and gravy dishes.
</p>
</div>
</div>
<div ng-if="Aselected=='Italian'">
Select the Dish : <select ng-model="A2selected" ng-options="item for item in A2items" >
</select>

<div class="recipe" ng-if="A2selected=='Bruschetta'">
You have Selected Bruschetta.

<input type="button" value="Show Recipe" ng-click="show()">
<p ng-show="isvisible">
An antipasto dish, bruschetta has grilled bread topped with veggies, rubbed garlic and tomato mix. A country bread sliced and topped with
different toppings - the evergreen tomato-basil and an inventive mushroom-garlic. The classic Italian starter!
</p>
</div>
<div class="recipe" ng-if="A2selected=='Margherita Pizza'">
You have Selected Margherita Pizza.

<input type="button" value="Show Recipe" ng-click="show()">
<p ng-show="isvisible">
Fancy a pipping hot pizza, fresh out of the oven? Create one at home! Margherita Pizza is to many the true Italian flag. One of the most loved Italian dishes, it just takes a few simple ingredients and you get insanely delicious results! You just can't go wrong with that tomato, basil and fresh mozzarella combo.
</p>
</div>
<div class="recipe" ng-if="A2selected=='Pasta Con Pomodoro E Basilico'">
You have Selected Pasta Con Pomodoro E Basilico.

<input type="button" value="Show Recipe" ng-click="show()">
<p ng-show="isvisible">
This is the most basic and simplest cooked pasta sauce, hence it is the benchmark of a good Italian home cook. This one boats of being among the original Italian recipes of pasta. easy and quick,

this pasta recipe can be made under half an hour. Serve as a
breakfast, pack for kid's tiffin or savour as an evening snack.
You can even cook this for a casual and lazy dinner and pair
this up with red wine.
</p>
</div>
</div>
<div ng-if="Aselected=='Chinese Cuisine'">
Select the Dish : <select ng-model="A3selected" ng-options="item
for item in A3items" >
</select>

<div class="recipe" ng-if="A3selected=='Dim Sums'">
You have Selected Dim Sums.

<input type="button" value="Show Recipe" ng-click="show()">
<p ng-show="isvisible">
One of the most loves street food from the north east, widely popular
across northern India now comes to your kitchen! Small bite-sized
rounds stuffed with veggies or meat. Dimsums are perfect steamed
snack to delight those evening cravings.
</p>
</div>
<div class="recipe" ng-if="A3selected=='Spring Rolls'">
You have Selected Spring Rolls.

<input type="button" value="Show Recipe" ng-click="show()">
<p ng-show="isvisible">
A crisp appetizer where shredded veggies are encased in thin sheets
and then fried golden. Little munchies to prepare at home for a
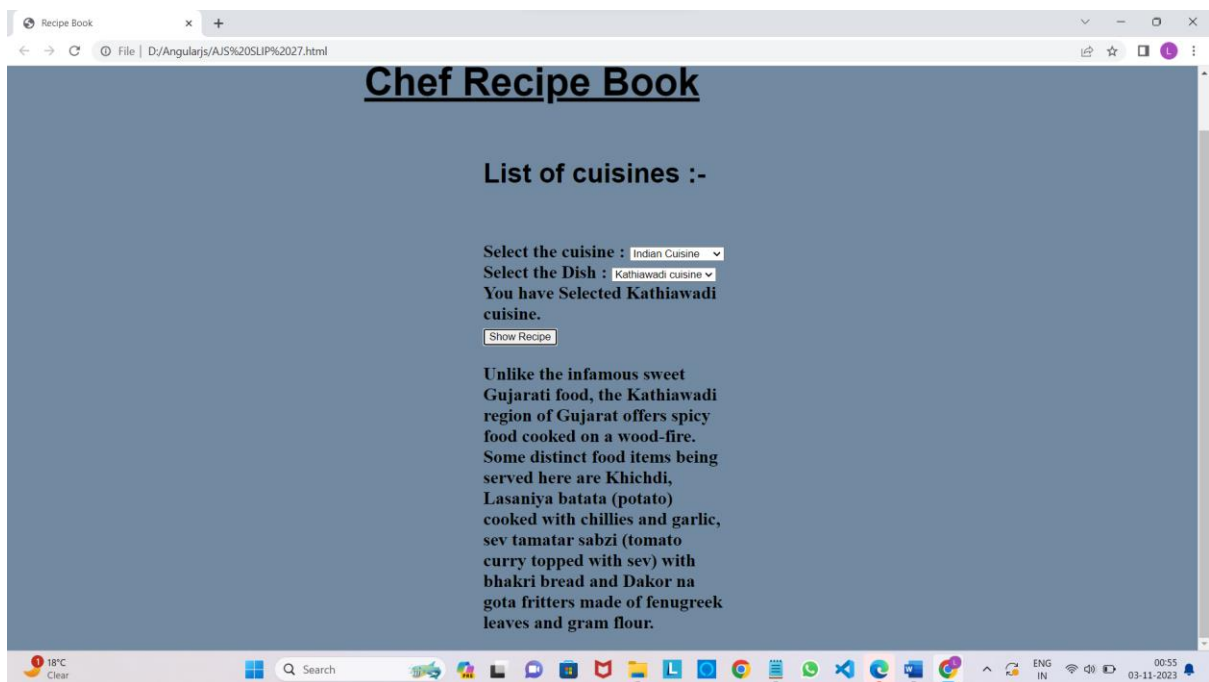high tea menu or just a party starter, serve with a tangy dip.
</p>
</div>
<div class="recipe" ng-if="A3selected=='Honey Chilli Potato'">
You have Selected Honey Chilli Potato.

<input type="button" value="Show Recipe" ng-click="show()">
<p ng-show="isvisible">
The quintessential Indo-Chinese snack! Honey chilli potato is
what you'll find at every Chinese van in and around north India.
It has the perfect balance of sweet and spicy with sliced potatoes
tossed with a host of sauces and spices.

```
</p>
</div>
</div>
</div>
</div>
</div>
</body>
</html>
```
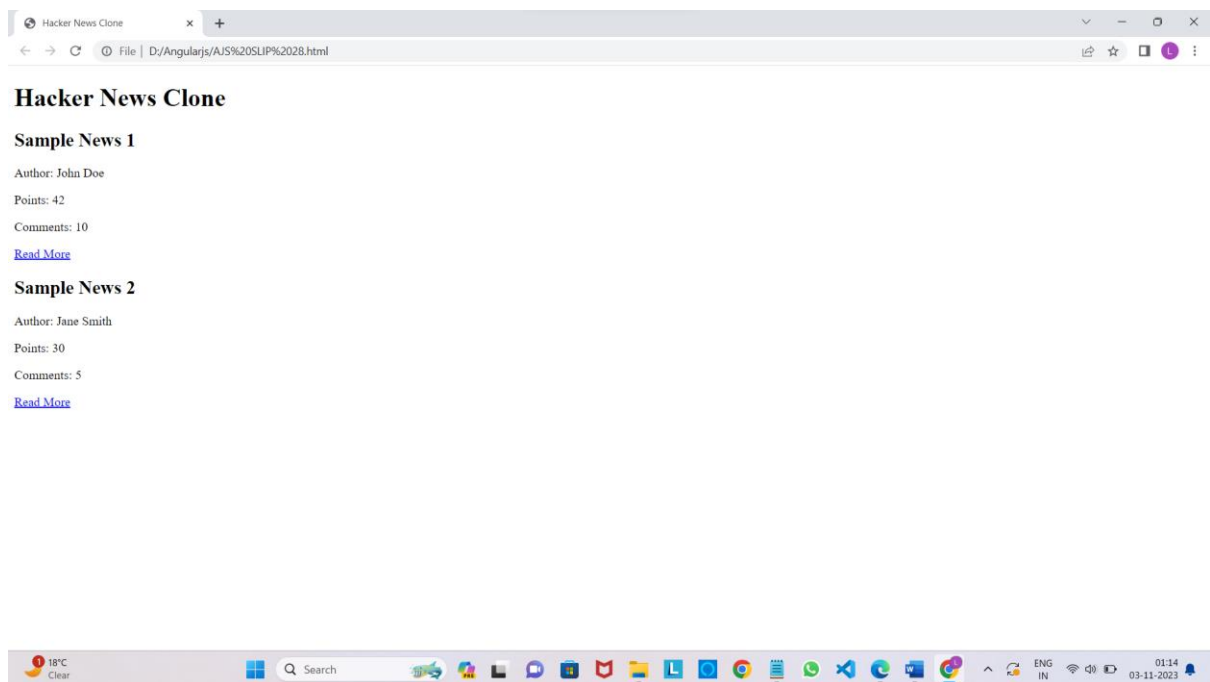
Slip 28

Q-28 Using AngularJS create a SPA that clone the "Hacker News" website.

```html
<!DOCTYPE html>
<html ng-app="HackerNewsApp">
<head>
  <title>Hacker News Clone</title>
  <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
</head>
<body ng-controller="NewsController">
  <header>
    <h1>Hacker News Clone</h1>
  </header>
  <div ng-repeat="story in stories">
    <div class="news-item">
      <h2>{{story.title}}</h2>
      <p>Author: {{story.author}}</p>
      <p>Points: {{story.points}}</p>
      <p>Comments: {{story.comments}}</p>
      <a ng-href="{{story.url}}" target="_blank">Read More</a>
    </div>
  </div>
  <script>
    angular.module('HackerNewsApp', [])
      .controller('NewsController', function($scope) {
        $scope.stories = [
          {
            title: "Sample News 1",
            author: "John Doe",
            points: 42,
            comments: 10,
            url: "https://example.com/news1"
          },
          {
            title: "Sample News 2",
```

41

```
                author: "Jane Smith",
                points: 30,
                comments: 5,
                url: "https://example.com/news2"
            },
        ];
    });
  </script>
</body>
</html>
```

Hacker News Clone

Sample News 1

Author: John Doe

Points: 42

Comments: 10

Read More

Sample News 2

Author: Jane Smith

Points: 30

Comments: 5

Read More

Slip 29

Q-29 Using AngularJS Develop Online School System.

```html
<!DOCTYPE html>
<html>
<head>
<title>StudentManagement</title>
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular-route.js"></script>
<script type="text/javascript" src="app.js"></script>
<script type="text/javascript"
src="studentcontroller.js"></script>
<script type="text/javascript" src="studentservice.js"></script>
<script type="text/javascript" src="studentdirective.js"></script>
</head>
<body ng-app="studentApp">
<div class="container">
<h2 align="center"><b>Student Management System</b></h2>
<div ng-controller="StudentController as sc">
<h2 align="center"><b>Search Students</b></h2>
<div student-search></div>
<h3 align="center"><b>Student Details</b></h3>
<div student-display></div>
```

```html
</div></div>
<div class="row" align="center">
<div class="col-sm-3"></div>
<div class="col-sm-4">
<div id="add" class="collapse">
<form class="form-horizontal">
<div class="form-group">
<label for="name" class="col-sm-5 control-label">Name</label>
<div class="col-sm-7">
<input type="text" class="form-control" id="name"
placeholder="Name" ng-model="sc.sname" />
</div></div>
<div class="form-group">
<label for="address" class="col-sm-5 control-label">Address</label>
<div class="col-sm-7">
<input type="text" class="form-control" id="address"
placeholder="Address" ng-model="sc.saddress" />
</div></div>
<div class="form-group">
<label for="class" class="col-sm-5 control-label">Class</label>
<div class="col-sm-7">
<select class="form-control" id="class" ng-model="sc.sclass">
<option value="1">1</option>
<option value="2">2</option>
<option value="3">3</option>
<option value="4">4</option>
<option value="5">5</option>
<option value="6">6</option>
<option value="7">7</option>
<option value="8">8</option>
<option value="10">10</option>
</select>
</div>
</div>
<div class="form-group">
```

```html
<label for="mobile" class="col-sm-5 control-label">Mobile</label>
<div class="col-sm-7">
<input type="text" id="mobile" class="form-control" placeholder="9***-******" ng-model="sc.smobile" />
</div></div>
<button type="button" class="btn btn-success" ng-click="sc.addStudent()">Add</button>
<button type="button" class="btn btn-danger">Reset</button>
</form></div></div>
<div class="col-sm-5"></div>
</div>
<div align="center" class="row">
<button type="button" class="btn btn-default btn-sm" data-toggle="collapse" data-target="#add">
<span class="glyphicon glyphicon-plus"></span> Add User
</button>
</div>
<div class="col-sm-12">
<table class="table table-striped table-bordered">
<thead>
<th><strong>Id</strong></th>
<th><strong>Name</strong></th>
<th><strong>Address</strong></th>
<th><strong>Class</strong></th>
<th><strong>Mobile</strong></th>
<th><strong>Action</strong></th>
</thead>
<tr ng-repeat="s in sc.students | orderBy: sc.ordering | filter: {id: sc.id, name: sc.name, address: sc.address, class: sc.class, mobile: sc.mobile}">
<td>{{s.id}}</td>
<td>
<div ng-hide="sc.editorEnabled[$index]">
{{s.name}}
</div>
<div ng-show="sc.editorEnabled[$index]">
```

```html
<input type="text" ng-model="s.name" />
</div></td><td>
<div ng-hide="sc.editorEnabled[$index]">
{{s.address}}
</div>
<div ng-show="sc.editorEnabled[$index]">
<input type="text" ng-model="s.address" />
</div></td><td>
<div ng-hide="sc.editorEnabled[$index]">
{{s.class}}
</div>
<div ng-show="sc.editorEnabled[$index]">
<select class="form-control" ng-model="s.class" ng-options="classValue for classValue in [1, 2, 3, 4, 5, 6, 7, 8, 10]"></select>
</div></td><td>
<div ng-hide="sc.editorEnabled[$index]">
{{s.mobile}}
</div>
<div ng-show="sc.editorEnabled[$index]">
<input type="text" ng-model="s.mobile" />
</div></td></tr></table>
</div></body></html>
```

Slip 30

Q-30 Using AngularJS Implement E-commerce Website.

```html
<!DOCTYPE html>
<html ng-app="ecommerceApp">
<head>
  <title>E-commerce Website</title>
  <script
src="https://code.angularjs.org/1.8.2/angular.js"></script>
</head>
<body ng-controller="ProductListController as productListCtrl">
<center>
  <h1>Welcome to our E-commerce Website</h1>

  <div ng-repeat="product in productListCtrl.products">
    <h2>{{product.name}}</h2>
    <p>Price: ${{product.price}}</p>
    <button ng-click="productListCtrl.addToCart(product)">Add
to Cart</button>
  </div>
  <h2>Shopping Cart</h2>
  <ul>
    <li ng-repeat="item in productListCtrl.cart">
      {{item.name}} - ${{item.price}}
    </li>
  </ul>
  <script>
    var app = angular.module('ecommerceApp', []);
    app.controller('ProductListController', function() {
      var productListCtrl = this;
      productListCtrl.products = [
        { name: 'Mobile', price: 10 },
        { name: 'Watch ', price: 20 },
        { name: 'Earbuds ', price: 30 },
      ];
      productListCtrl.cart = [];
```

```
      productListCtrl.addToCart = function(product) {
         productListCtrl.cart.push(product);
      };
   });
  </script>
</body>
</html>
```