Angular JS navigation menu

Exp No.6   **Date:18-03-21**

Objective:
- To Write an Angular program for navigation menu.

Requirements:

- **Front End Requirements:**
    1. Web Browser HTML support
    2. HTML
    3. CSS
    4. Angular

- **Text Editor/IDE**

Theory:

- **Html** stands for hypertext markup language is a standard markup language for creating web pages. It Describes the structure of web page.
- **CSS** (cascading style sheets) is used to format the layout of a webpage.
- **AngularJS** is JavaScript framework (structural framework) for dynamic web applications.
- It is a Single Page Application (SPA) projects.
- It is Open source.
- It supports the Model View Controller (MVC).
- A Model View Controller pattern is made up of the following three parts:
    - Model - It is the lowest level of the pattern responsible for maintaining data.
    - View - It is responsible for displaying all or a portion of the data to the user.
    - Controller - It is a software Code that controls the interactions between the Model and View.
- AngularJS has built-in directives such as ngBind, ngModel, etc.
    - ng-app - This directive defines and links an AngularJS application to HTML.
    - ng-model - This directive binds the values of AngularJS application data to HTML input controls.
    - ng-bind - This directive binds the AngularJS application data to HTML tags.
- A navigation menu is a list of a links pointing to important areas of a website. They are usually presented as a horizontal bar of links at the top of every page on a website. Navigation menus give your site structure and help visitors find what they're looking for.

Procedure
1. Create a front end UI for the home.html.
2. Load Angular JS framework using using <script src =

"https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js"></script>
3. Define angular JS application using ng-app directive.
4. Define a model name using ng-model directive.
5. Bind the value of the above model using ng-bind directive.
6. Execute the angular JS application and write the code for navigation bar using nav in angular.
7. Add CSS and links in the navigation bar.
8. Open the home.html in the browser and you can see the navigation bar.

Implementation:

home.html

```html
<!DOCTYPE html>
<html>
  <title>Gujarat Tourism</title>
  <link rel="stylesheet" href="home.css">
  <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.0.7/angular.min.js"></script>
  <body ng-app>
  <nav class="{{active}}">
  <h1><img src="logo.png">Vibrant Gujarat</h1>
  <ul>
  <li><a class="active" href="#home">Home</a></li>
  <li><a href="destsearch.html">Destinations</a></li>
  <li><a href="texteditormain.html">Things To Do</a></li>
  <li><a href="#about">Festivals</a></li>
  <li><a href="#about">Accomodation</a></li>
  <li><a href="destination.html">Top 6 Destinations</a></li>
  <li><a href="ticket.html">Book Tickets</a></li>
</ul>

  <center>
  <div class="slideshow">
  <img class="mySlides" src="ranutsav.jpg">
  <img class="mySlides" src="Rann.jpg">
  <img class="mySlides" src="Sabarmati.jpg">
   <img class="mySlides" src="statue.jpg">
  </div>
  </center>
  <script>
   var myIndex = 0;
   show();

   function show() {
     var i;
     var x = document.getElementsByClassName("mySlides");
     for (i = 0; i < x.length; i++) {
       x[i].style.display = "none";
     }
     myIndex++;
```

```
    if (myIndex > x.length) {myIndex = 1}
    x[myIndex-1].style.display = "block";
    setTimeout(show, 3000);
   }
</script>
 </body>
 </html>
```

home.css
```css
body {margin:0;}
h1{
  top:1.5%;
}
img{
  height:45px;
  width:45px;
}
ul {
  position:fixed;
  list-style-type: none;
  margin: 0;
  padding:0;
  overflow: hidden;
  background-color: #333;

  top:70px;
  width: 100%;
}

li {
  float: left;
}

li a {
  display: block;
  color: white;
  text-align: center;
  padding: 14px 16px;
  text-decoration: none;
}

li a:hover:not(.active) {
  background-color: #111;
}

.active {
  background-color: #f37121;
}
figure {
```

```
    display: block;
    position: relative;
    overflow: hidden;
}

figcaption {
    position: absolute;
    background: rgba(0,0,0,0.75);
    color: black;
    padding: 10px 20px;
}
.mySlides {
 width: 100%;
 height:500px;
 background-size: 100% 100%;
}
```
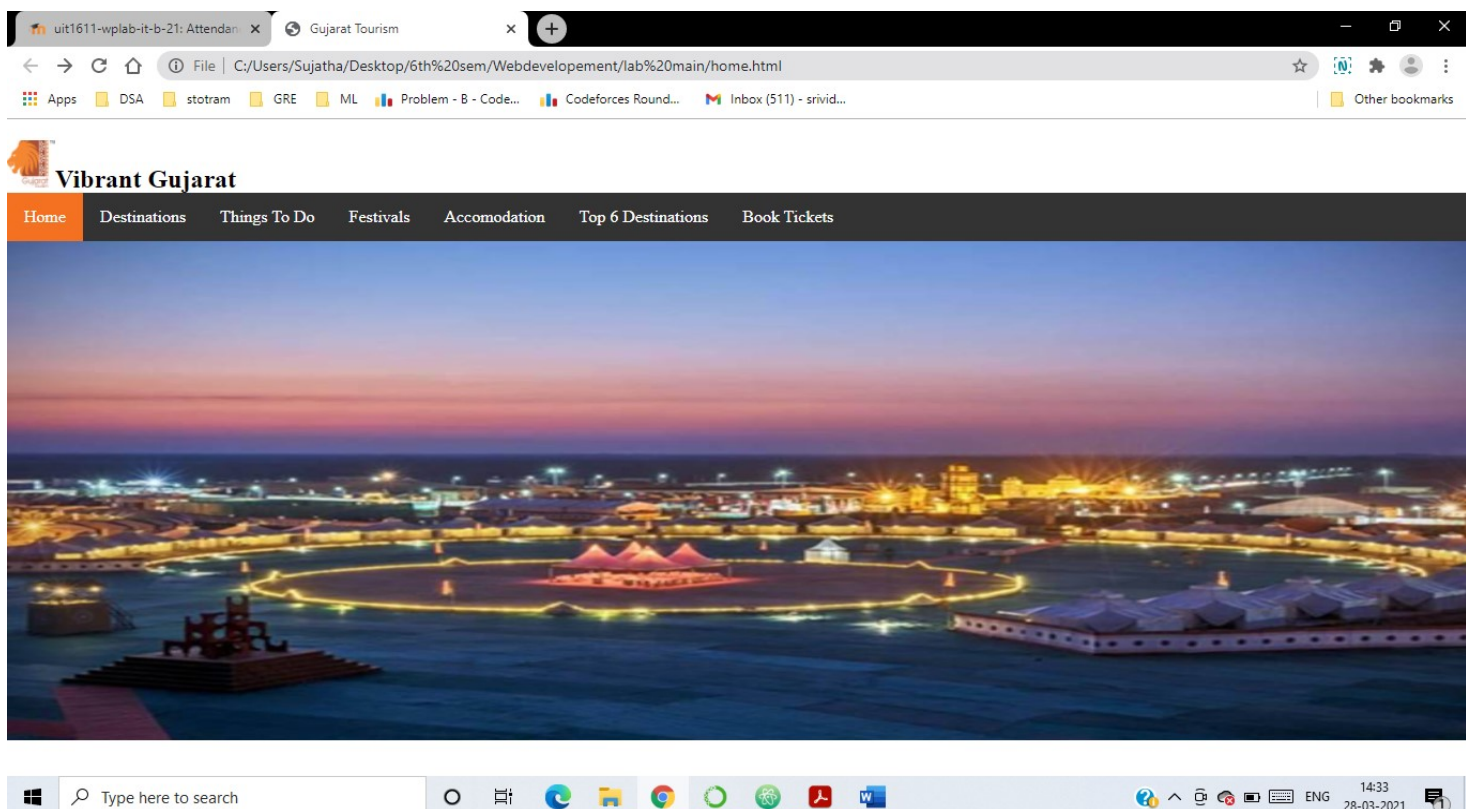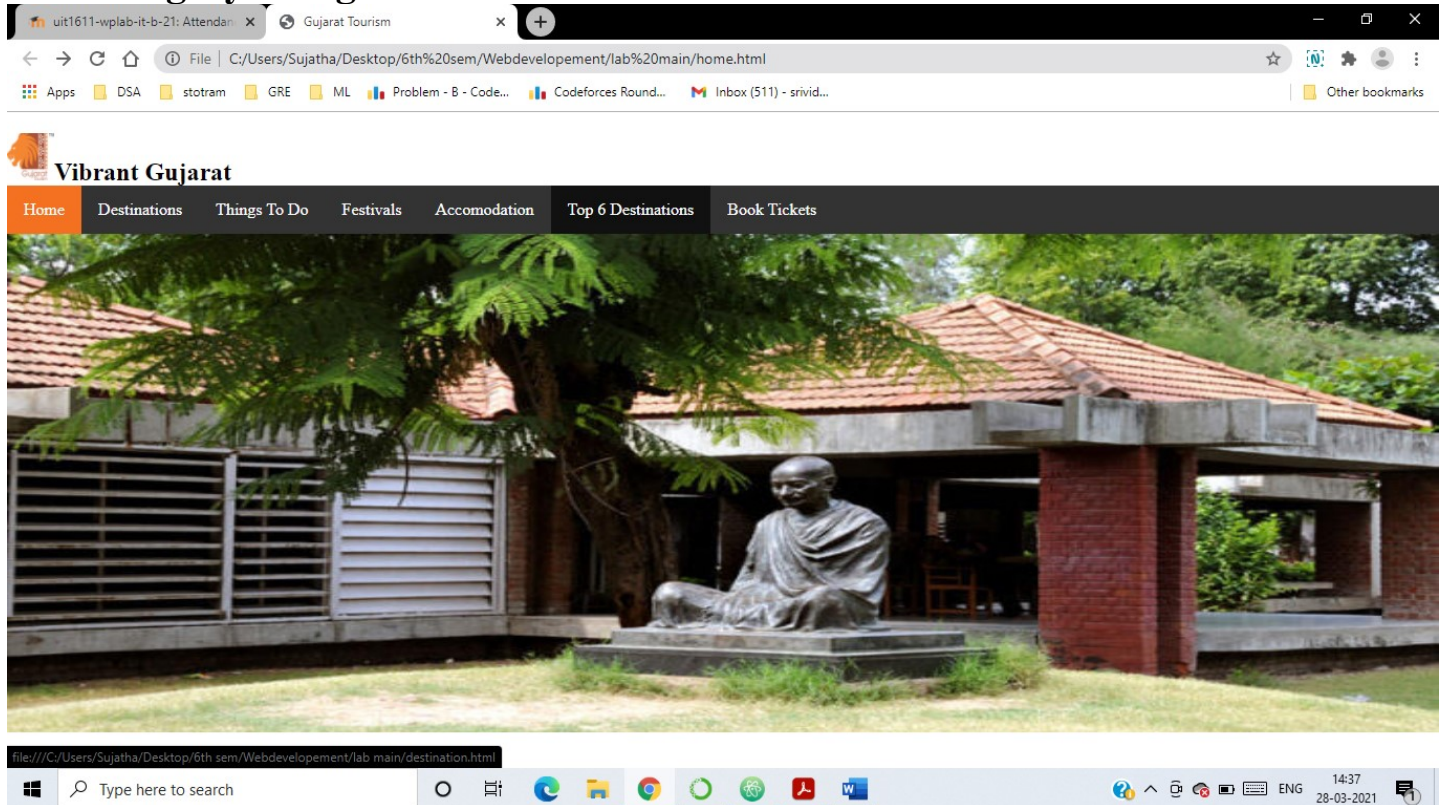
Output:

home.html

Included a navigation menu in the home page which navigates to other web pages on clicking.

The link in navigation bar becomes active and shows up in dark black color over the grey navigation bar.

Result:

In this experiment, the code to create an angularJS for navigation menu and the output was verified successfully.