

## Angular JS Filters

**Exp No.4**

**Date:25-02-21**

### Objective:

- To Write an Angular program to implement search to filter items
- To create Angular JS Program to implement search based on input given by the user and filter the contents accordingly.

### 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.

## **Procedure**

1. Create a front end UI for the destinationsearch.html.
2. Load Angular JS framework 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 filters.
7. Open the destsearch.html in the browser and in the search bar start typing the characters and the destination will be sorted according to the users search.

## **Implementation:**

### **home.html**

```
<!DOCTYPE html>
<html>
  <title>Gujarat Tourism</title>
  <link rel="stylesheet" href="home.css">
  <body>
    <h1>Vibrant Gujarat</h1>
    <ul>
      <li><a class="active" href="#home">Home</a></li>
      <li><a href="destsearch.html">Destinations</a></li>
      <li><a href="#contact">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>
    </ul>
    <center>
      <div class="slideshow">
        
        
        
        
      </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";
        }
      }
    </script>
  </body>
</html>
```

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

### **home.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%;  
}
```

### **destsearch.html**

```
<html >  
<head>  
  <title>Destinations in Gujarat</title>  
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-  
awesome/4.7.0/css/font-awesome.min.css">  
  <link rel="stylesheet" href="destsearch.css">  
  <style type="text/css">  
    .bar  
    {  
      box-shadow: 0 1px 1px #ccc;  
      border-radius: 2px;  
      width: 100%;  
      padding: 5px;  
      margin: 45px auto 25px;  
      position: relative;  
      text-align: right;  
      line-height: 1;  
    }  
    .bar a  
    {  
      background: #4987a1 center center no-repeat;  
      width: 32px;  
      height: 32px;  
      display: inline-block;
```

text-decoration: none !important;  
margin-right: 20px;  
border-radius: 2px;  
cursor: pointer;

}

.bar a.list-icon{

background-

image:url(data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAABAAAAAQCAYAA  
AAf8/9hAAAAGXRFWHRTb2Z0d2FyZQBBZG9iZSBJbWFnZVJlYWR5ccllPAAAAyBpVF  
h0WE1MOmNvbS5hZG9iZS54bXAAAAAAADw/eHBhY2tldCBiZWdpbj0i77u/LiBpZD0iVz  
VNME1wQ2VoaUh6cmVTek5UY3prYzlkIj8+IDx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYm  
U6bnM6bWV0YS8iIHg6eG1wdGs9IkFkb2JlIFhNUCBDd3JlIDUuMC1jMDYwIDYxLjEzND  
c3NywgMjAxMC8wMi8xMi0xNzozMjowMCAgICAgICAgICAgICAgICAgICAgICAgICAgICAg  
RmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjLj4gPHJkZj  
pEZXNjcmlwdGlvbiByZGY6YWJvdXQ9IiIgeG1sbnM6eG1wPSJodHRwOi8vbnMuYWRvYm  
mUuY29tL3hhcC8xLjAvLiB4bWxuczp4bXBNTT0iaHR0cDovL25zLmFkb2JlLmNvbS94YXA  
vMS4wL21tLyIgeG1sbnM6c3RSZWY9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC9z  
VHlwZS9SZXNvdXJlZiMiIHhtcDpDcmVhdG9yVG9vbD0iQWRvYmUgUGhvdG9zaG9  
wIENTNSBxaW5kb3dzLiB4bWxubNTTpJbnN0YX5jZU1EPSj4bXAuaWlkOkYzNkFCQ0ZBM  
TBCRTEExRTM5NDk4RDFEM0E5RkQ1NEZCIB4bXBNTTpEb2N1bWVudElEPSj4bXAuZ  
GlkOkYzNkFCQ0ZCMTBCRTEExRTM5NDk4RDFEM0E5RkQ1NEZCIB4gPHhtcE1NOkRlcm  
l2ZWRGcm9tIHNOUmVmOmluc3RhbmNlSUQ9InhtcC5paWQ6RjM2QUJDRjgxmEJFMtFF  
Mzk0OThEMUQzQTlGRDU0RkIiIHNOUmVmOmRvY3VtZW50SUQ9InhtcC5kaWQ6RjM2  
QUJDRjgxmEJFMtFFMzk0OThEMUQzQTlGRDU0RkIiLz4gPC9yZGY6RGVzY3JpcHRpb  
24+IDwvcmluLjRj4gPC94OnhtcG1ldGE+IDw/eHBhY2tldCBiZWdpbj0i77u/LiBpZD0iVz  
WU1EQVR42mL8///BwYGBn4GCACxBRlIAIxA/4jaXoPEkMyjJ+A/g9MDJQBRhYg8RFq  
Mwg8RJIUINYLFDMBUi+ADQAF1n8ofk9yIAy6WPg4GgtDMRYAAgwAdLYwLAoIwPgA  
AAAASUVORK5CYII=);

}

.bar a.grid-icon{

background-

image:url(data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAABAAAAAQCAYAA  
AAf8/9hAAAAGXRFWHRTb2Z0d2FyZQBBZG9iZSBJbWFnZVJlYWR5ccllPAAAAyBpVF  
h0WE1MOmNvbS5hZG9iZS54bXAAAAAAADw/eHBhY2tldCBiZWdpbj0i77u/LiBpZD0iVz  
VNME1wQ2VoaUh6cmVTek5UY3prYzlkIj8+IDx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYm  
U6bnM6bWV0YS8iIHg6eG1wdGs9IkFkb2JlIFhNUCBDd3JlIDUuMC1jMDYwIDYxLjEzND  
c3NywgMjAxMC8wMi8xMi0xNzozMjowMCAgICAgICAgICAgICAgICAgICAgICAgICAgICAg  
RmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjLj4gPHJkZj  
pEZXNjcmlwdGlvbiByZGY6YWJvdXQ9IiIgeG1sbnM6eG1wPSJodHRwOi8vbnMuYWRvYm  
mUuY29tL3hhcC8xLjAvLiB4bWxuczp4bXBNTT0iaHR0cDovL25zLmFkb2JlLmNvbS94YXA  
vMS4wL21tLyIgeG1sbnM6c3RSZWY9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC9z  
VHlwZS9SZXNvdXJlZiMiIHhtcDpDcmVhdG9yVG9vbD0iQWRvYmUgUGhvdG9zaG9  
wIENTNSBxaW5kb3dzLiB4bWxubNTTpJbnN0YX5jZU1EPSj4bXAuaWlkOkYzNkFCQ0ZBM  
TBCRjExRTNBMDIGRTYyOTIBNDdCN0I4IiB4bWxubNTTpEb2N1bWVudElEPSj4bXAuZGl  
kOjBEQkMyQzE1MTBCRjExRTNBMDIGRTYyOTIBNDdCN0I4Ij4gPHhtcE1NOkRlcm12Z  
WRGcm9tIHNOUmVmOmluc3RhbmNlSUQ9InhtcC5paWQ6MERCQzJDMTlIxMEJGMTFF  
M0EwOUZFNjI5OUe0N0I3QjgiIHNOUmVmOmRvY3VtZW50SUQ9InhtcC5kaWQ6MERC  
QzJDMTMxMEJGMTFFM0EwOUZFNjI5OUe0N0I3QjgiLz4gPC9yZGY6RGVzY3JpcHRpb

24+IDwvcmRmOlJERj4gPC94OnhtcG1ldGE+IDw/eHBhY2tldCB1bmQ9InIiPz4MjPshAAAA  
XklEQVR42mL4///h/8I8B6IGaCYKHFGEMnAwCDIAAHvgZgRyiZKnImBQsACxB+hNoD  
AQyQ5osQZIT4gH1DsBZABH6AB8x/JaQzEig++WPiII7Rxio/GwmCIBYAAAwAwVlzMp1  
R0aQAAAABJRU5ErkJggg==);  
}

```
.bar a.active
{
    background-color: #c14694;
}

/*-----List layout-----*/
ul.list
{
    list-style: none;
    width: 600px;
    margin: 0 auto;
    text-align: left;
}
ul.list li
{
    border-bottom: 1px solid #ddd;
    padding: 10px;
    overflow: hidden;
}
ul.list li img
{
    float: left;
    border: none;
    padding-right: 10px;

}
ul.list li p
{
    margin-left: 135px;
    font-weight: bold;
    color: #6e7a7f;
}
#dataname1 {
    font-size: 25px;
    color: black;
    padding-left: 10px;

}
#dataname2, #dataname3 {

    padding-left: 20px;
```

```

}
#tbx {
    text-align:right;
    font-size:22px;

}
.boxed {
    border: 1.5px solid orange ;
    width:75%;
    height:600px;

}
.n{
    font-size:60px;
    color:orange;
    font-weight: bold;
    padding-left:10px;
}
.na{
    font-size:30px;
    font-weight:bold;
    padding-left:5px;
}
#listimg {
    padding-left:25px;
}
#unity {
    width:85em;
    height:25em;
}

```

</style>

<script type="text/javascript"

src="https://cdnjs.cloudflare.com/ajax/libs/angular.js/1.7.8/angular.min.js"></script>

<script type="text/javascript">

var app = angular.module("MyApp", []);

angular.module('MyApp', []).controller("MyController", function(\$scope) {

\$scope.message="Top 5 Destinations to Visit"

\$scope.layout = 'grid';

\$scope.Data = [

{num:"01", Name:"Ahmedabad",path:"ahm.jpg",desc:"Ahmedabad, also known as the 'Manchester of India' is an apt weekend destination amongst tourists who want to unwind themselves amidst nature and capture the beautiful essence of Gujarat. Ahmedabad is the western India's most vibrant city known for its cotton industries mushrooming into the cities and its cotton products burgeoning across India."},

{num:"02", Name: "Surat",path:"surat.jpg",desc:"Surat, often called the Diamond

City, for it has been the trade centre for diamonds for centuries! The city sparkles with its natural beauty, the hot springs, temples, tree-lined roads and access to some of the most beautiful beaches."},

{num:"03", Name: "Silvassa",path:"sil.jpg",desc:"Silvassa is extremely renowned for its exotic resorts, lush greenery, manufacturing industries and tax-free alcohol. It is also a haven for those looking for handmade and originally crafted products like Warli painting and paper bag."},

{num:"04", Name: "Vadodra",path:"vad.jpg",desc:"Known all over the world for its magnificent palaces, glorious past, and rich culture, the beautiful city of Vadodara happens to be one of the top places to visit in Gujarat for a peaceful and tranquilizing holiday."},

{num:"05", Name: "Kutch",path:"kutch.jpg",desc:"If you are looking for places to visit in Gujarat, then Kutch is the crème de la crème of the places you would want to explore. The architectural grandeur, cultural marvel, and sumptuous cuisine are bound to make it difficult for you to leave."},

{num:"06", Name: "Rajkot",path:"raj.jpg",desc:"The entire city of Rajkot reverberates colonial vibes. Most of the architecture reflects Anglo Indian styles of construction. The elaborate parks, lush green gardens, towering buildings, and museums beautify Rajkot further.."},

{num:"07", Name: "Gandhinagar",path:"gandh.jpg",desc:"Situated on the west coast of Sabarmati River, this city was named after the great freedom fighter and Father of The Nation of India, Mohandas Karamchand Gandhi. Located 32km to the north of Ahmedabad, Gandhinagar is the epitome of rich cultural heritage."},

{num:"08", Name: "Gir Somnath",path:"som.jpg",desc:"Gir and Somnath have a distinctly unique beauty. While Somnath's location next to the Arabian Sea adds richness to its landscape, Gir's tropical forest cover lends a luxuriant and verdant charm looking like a sea of green extending across endless miles."},

{num:"09", Name: "Saputara",path:"sap.jpg",desc:"Saputara is a tourist destination situated in the Dang district of Gujarat. It offers a spectacular view of the Western Ghats residing amid the undulating mountains at a distance of 250 km from Mumbai, and 4 km from the Mumbai border. Being the only hill station in Gujarat, it is located at a height of 1,000 meters and attracts tourists, especially during the summers. ."},

{num:"10", Name: "Jamnagar",path:"jam.jpg",desc:"Located in the Saurashtra region of Gujarat, Jamnagar is one of the most stunning places to visit in Gujarat. This commercially developed city offers several tourist attractions and entertainment options. The town is known primarily for the oil generation here by the Reliance industries. Moreover, its location to the south of the Gulf of Kutch also makes it a favorable tourist, commercial, and industrial destination."},

];

});

</script>

</head>

<body bgcolor=white>

<div class="container">



<div class="text-block">

<h1 id="head">Places To Visit in Gujarat</h1>

</div>

</div>



```

<div ng-app="MyApp" ng-controller="MyController">
<p id="tbx">Search:<input type="text" ng-model="test"></p>
<ul style="list-style-type: none;">
<li>

    <li ng-repeat="data in Data| filter : test">
        <div class="boxed">
            <p><span class="n">{{ data.num }}</span><span
class="na">{{ data.Name }}</span></p>
            

            <p id="dataname2">{{ data.desc }}</p>

        </div>
        <br>
    </li>
</ul>
</div>
</body>
</html>

```

### **destsearch.css**

```

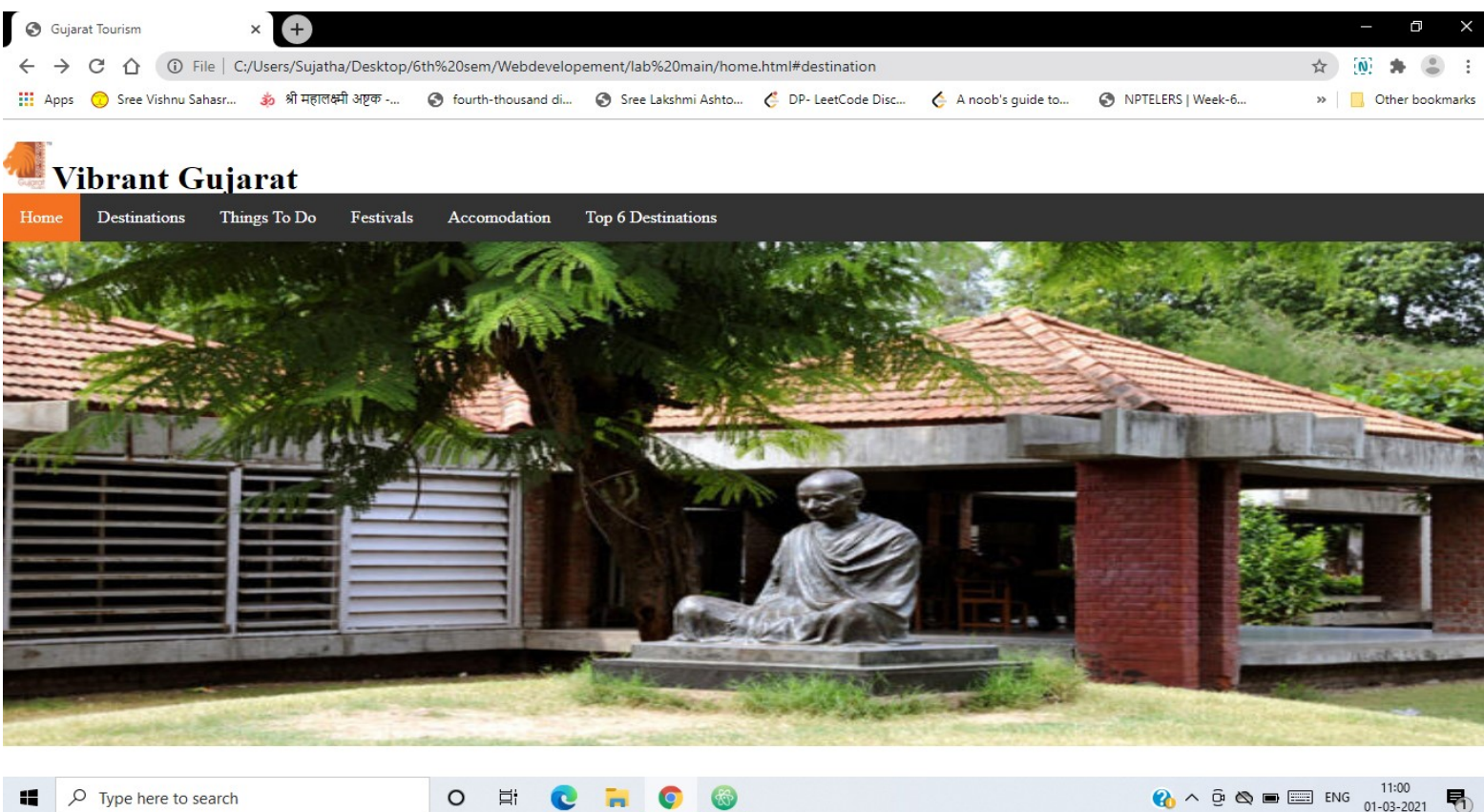
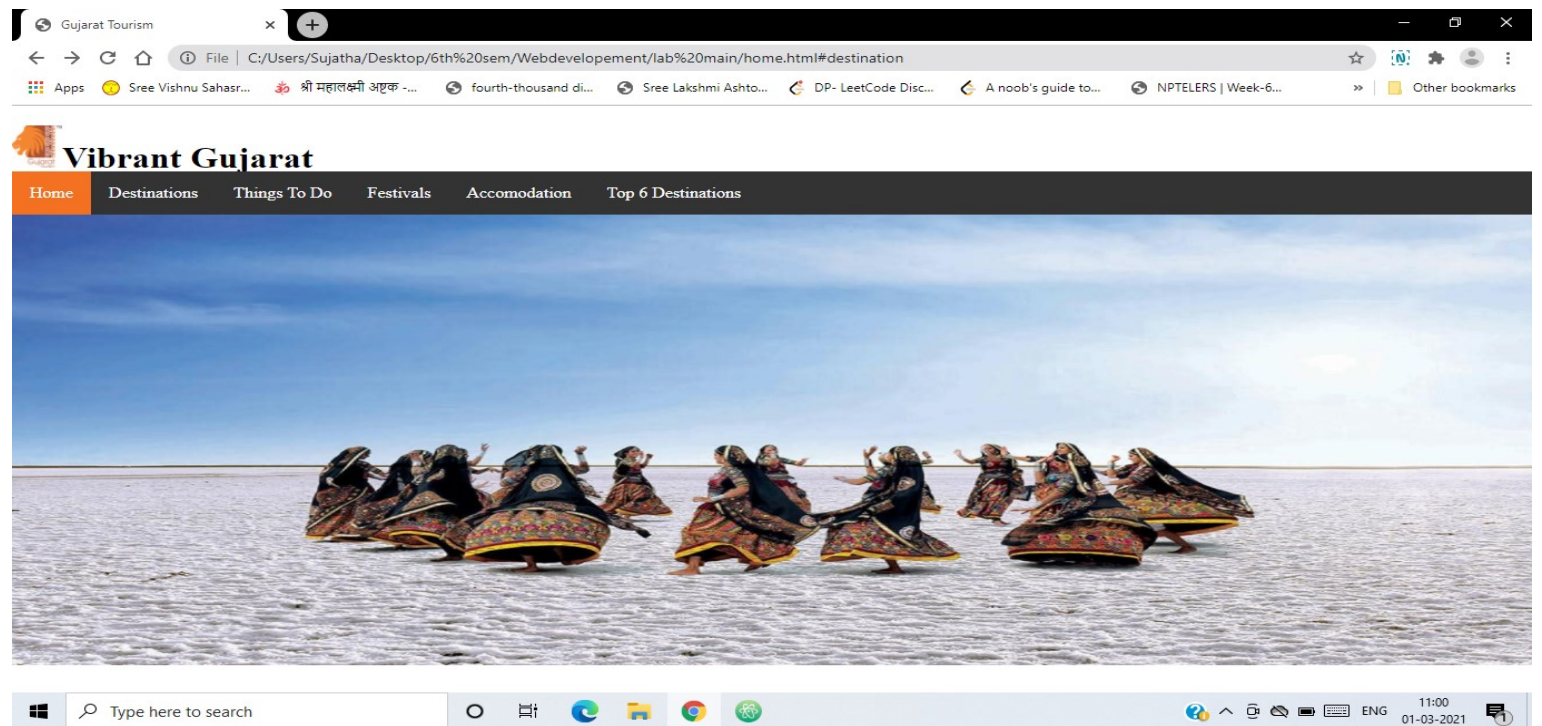
.container {
    position: relative;
}
#unity{
    height:500px;
    width:100%;
}

/* Bottom right text */
.text-block {
    position:absolute;
    bottom:43%;
    right:36%;
    color:white;
    font-size:35px;
}

```

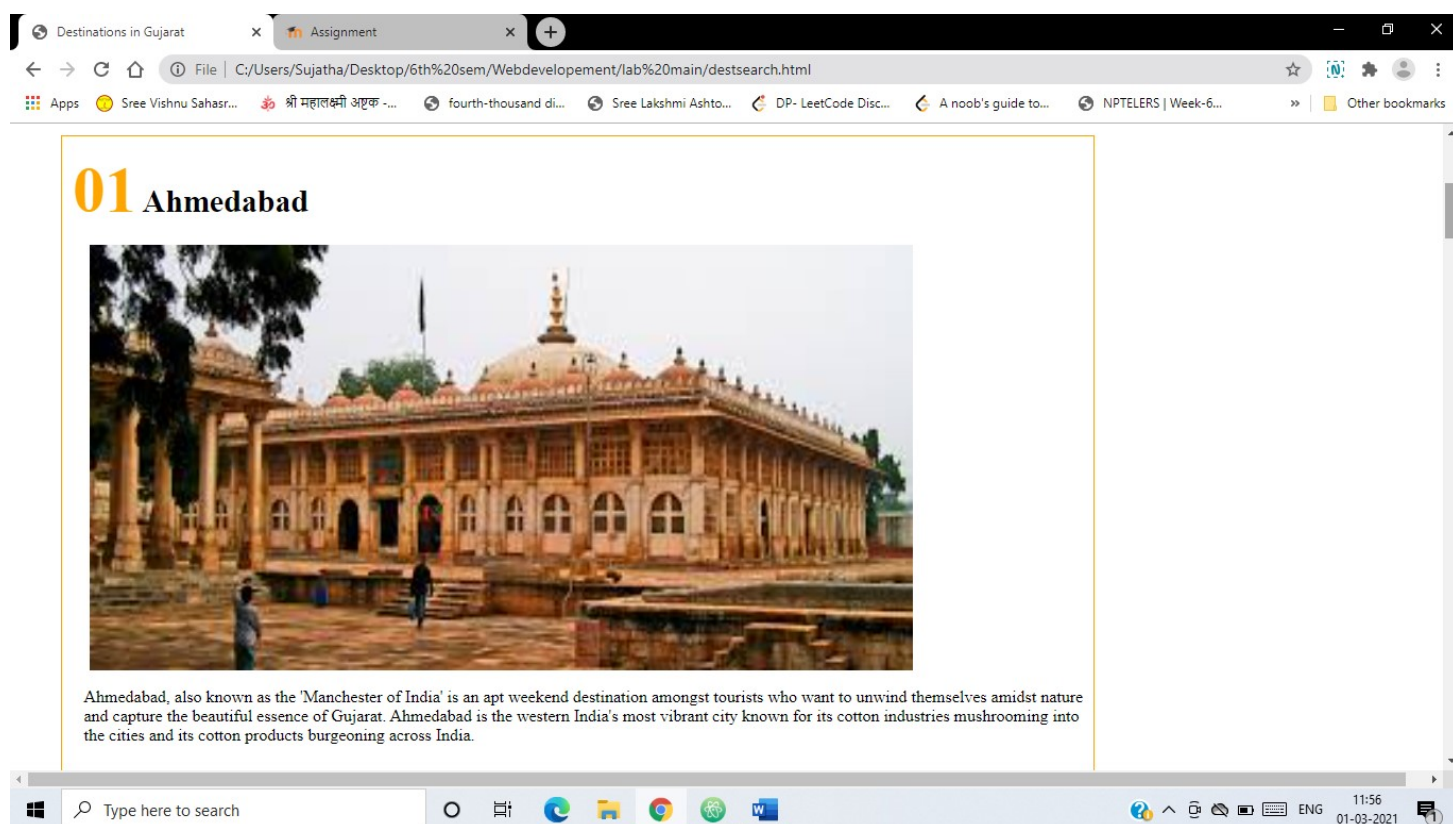
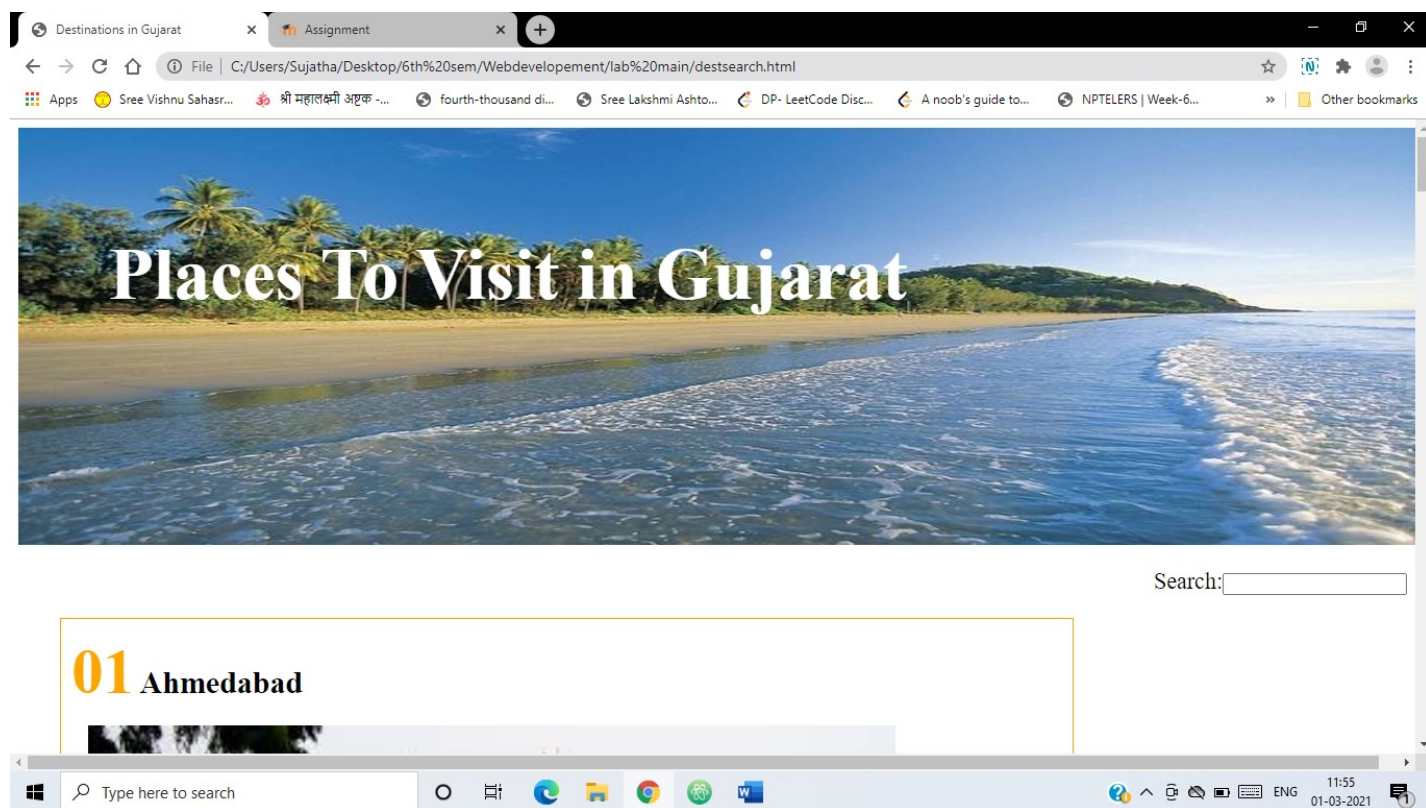
## Output:

### home.html





## destsearch.html(Angular Filters)




Destinations in Gujarat x Assignment x +

File | C:/Users/Sujatha/Desktop/6th%20sem/Webdevelopment/lab%20main/destsearch.html

Apps Sree Vishnu Sahasr... श्री महालक्ष्मी अष्टक -... fourth-thousand di... Sree Lakshmi Ashto... DP- LeetCode Disc... A noob's guide to... NPTELERS | Week-6... Other bookmarks

## 02 Surat



Surat, often called the Diamond City, for it has been the trade centre for diamonds for centuries! The city sparkles with its natural beauty, the hot springs, temples, tree-lined roads and access to some of the most beautiful beaches.

Type here to search


11:56 01-03-2021

Destinations in Gujarat x Assignment x +

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Known all over the world for its magnificent palaces, glorious past, and rich culture, the beautiful city of Vadodara happens to be one of the top places to visit in Gujarat for a peaceful and tranquilizing holiday.

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Destinations in Gujarat
Assignment

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The entire city of Rajkot reverberates colonial vibes. Most of the architecture reflects Anglo Indian styles of construction. The elaborate parks, lush green gardens, towering buildings, and museums beautify Rajkot further..

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01-03-2021

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Situated on the west coast of Sabarmati River, this city was named after the great freedom fighter and Father of The Nation of India, Mohandas Karamchand Gandhi. Located 32km to the north of Ahmedabad, Gandhinagar is the epitome of rich cultural heritage.

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Type here to search

11:57 01-03-2021

User searches with keywords “Sap” the contents of the webpage are ordered accordingly.


Destinations in Gujarat x Assignment x +

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Search: Sap

## 09 Saputara



Saputara is a tourist destination situated in the Dang district of Gujarat. It offers a spectacular view of the Western Ghats residing amid the undulating mountains at a distance of 250 km from Mumbai and 4 km from the Mumbai border. Being the only hill station in Gujarat, it is located

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### **Result:**

In this experiment, the code to create a angularJS, to implement search to filter items and the output was verified successfully.