

Angular JS Text Editor

ExpNo.8

Date:05-04-21

Objective:

- To create a text editor using angular JS.
- To create Angular JS text editor for my tourism web-app as a To-Do list.

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.

- In this experiment, we create a text editor based on the HTML <textarea> tag, and add some functionalities to it with AngularJS.
- The <textarea> tag defines a multi-line text input control.
- The <textarea> element is often used in a form, to collect user inputs like comments or reviews. A text area can hold an unlimited number of characters, and the text renders in a fixed-width font (usually Courier).
- The size of a text area is specified by the <cols> and <rows> attributes (or with CSS).
- The name attribute is needed to reference the form data after the form is submitted (if you omit the name attribute, no data from the text area will be submitted).
- The id attribute is needed to associate the text area with a label.

Procedure

1. Load Angular JS framework using using <script src = "https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js"></script>
2. Define angular JS application using ng-app directive.
3. Define a model name using ng-model directive.
4. Bind the value of the above model using ng-bind directive.
5. Create the basic HTML UI for a form and import the AngularJS library.
6. Add the <textarea> tag in the form, and supply the required attributes.
7. Apply the required HTML/CSS styling to it.
8. Using AngularJS framework, add the required functionalities for the editor like number of characters left, clear, save, cut, copy.
9. Verify the output in the browser.

Implementation:

home.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>
<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="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">




</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

```
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%;  
}
```

texteditormain.html

```
<html >  
<head>  
<title>To Do</title>  
<script src="http://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">  
</script>  
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-  
awesome/4.7.0/css/font-awesome.min.css">  
<style type="text/css">  
.container {  
position: relative;  
}  
.text-block {  
position:absolute;  
bottom:80%;  
right:29%;  
color:black;
```

```
}  
#imgtxt{  
font-size:30px;  
font-weight:bold;  
}  
#gir{  
height:400px;  
width:100%;  
}  
#todolist{  
margin-top:50px;  
float:left;  
margin-left:25%;  
}  
#tarea{ background-color:#caf7e3;  
font-size:25px;  
font-weight:bold;  
color:#28527a;  
float:left;  
}  
#create{  
font-size:25px;  
font-weight:bold;  
}  
#saltmarsh{  
border-style:solid;  
height:104%;  
width:30%;  
float:left;  
margin-left:30px;  
}  
#lion,#lion1,#lion2{  
border-style:solid;  
height:108%;  
width:30%;  
float:left;  
margin-left:10px;  
}  
#sabar{  
border-style:solid;  
height:115%;  
width:30%;  
float:left;
```

```

margin-top:10px;
margin-left:30px;
}
#lake,#lake1{
border-style:solid;
height:115%;
width:30%;
float:left;
margin-top:10px;
margin-left:10px;
}
#img1,#img2,#img3,#img4,#img5,#img6{
width:100%;
height:60%;
}
#p1,#p2,#p3,#p4,#p5,#p6{
font-size:20px;
font-weight:bold;
margin-left:10px;
}
#pp1,#pp2,#pp3,#pp4,#pp5,#pp6{
margin-left:8px;
}
#btn1,#btn2{
background-color: #f6dfeb;
margin-left:10px;
margin-top:10%;
padding: 15px 32px;
text-align: center;
text-decoration: none;
display: inline-block;
    font-size: 16px;
font-weight:bold;
}
</style>
</head>
<body bgcolor=white>
<div class="container">

<div class="text-block">
<p id="imgtxt">Things to do in Gujarat:Exploring the land of the legends</p>
</div>
</div>

```

Top things to do In Gujarat

Gujarat is known for its architectural marvels, magnificent temples, gorgeous beaches and several wildlife sanctuaries. There are a number of exciting things to do in Gujarat that makes it one of the top tourist destinations of India. The most popular attraction in the state is the Great Rann of Kutch with a vast expanse of salt marshes. Besides, it is home to the historical Dandi March and the world renowned Sabarmati Ashram. Paragliding is one among the top activities to do in the place and so is spotting Asiatic lions at Gir. Take a look at the comprehensive list of things to in Gujarat given below.

<div id="saltmarsh">

<p id="p1">1.Salt Marshes in Great Rann Of Kutch</p>

<p id="pp1">The Great Rann of Kutch, a large area of salt marshland, is located in the District of Kutch, in the western state of India, Gujarat. The vast expanse is situated in the Thar Desert and is formed of salt marshes which create a mesmerising view that attracts travellers from all over the world. Sunsets at the Great Rann of Kutch are a treat to the eyes after exploring the region. Watching the moon on a full moon night in the captivating surroundings of the Great Rann of Kutch will make you feel like you are on a different planet altogether.</p>

</div>

<div id="lion1">

<p id="p2">2.Spot Asiatic lions at Gir</p>

<p id="pp2">Gir National Park is the only remaining home for the Asiatic Lions that are almost a definition to this park in Gujarat, which has a lot more to offer. Gir provides you with the unique experience of visiting a place which almost singularly plays a crucial and defining role in the preservation and sustaining of a certain species. The preservation of these lions was initiated by the Nawab of Junagadh when these were just about to enter the phase of extinction due to hunting.</p></div>

<div id="lion2">

<p id="p3">3.Witness a mesmerising sunset in Kankaria Lake in Ahmedabad</p>

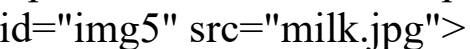
<p id="pp3">The second largest lake of Ahmedabad, formerly known as Hauz-e-Qutub, Kankaria Lake was built in the 15th century and was later revamped in 2008. From balloon safari and zoo to toy trains and amusement park, Kankaria Lake has it all. You can also just rejuvenate in the garden as life in Ahmedabad city unfolds around you. The ecstatic ambience with high-spirited people is a cherry on the cake. It is perfect for evening strolls with multi coloured lights glowing all around its periphery.</p></div>

<div id="sabar">

<p id="p4">4.Take a tour to the ancient town of Dholavira</p>

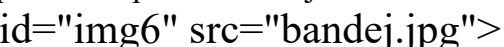
It is one of the largest remarkable excavations of the Indus Valley Civilization which was one of the most developed civilization roughly 4500 years ago. Witness the history yourself! A visit to the site tells the story of the 7 stages of the civilization and it is considered to be one of the grandest cities of its time. It is one of the 5 largest Harappan sites and the most prominent archaeological sites in India belonging to the Indus Valley Civilization.

5. Visit the Milk Capital Of India: Anand



The epicenter of the white revolution in the country back in the 60s, Anand is a place known for its semi-rural set up and the Swami Narayan Mandir which is the crown jewel of the city. An emerging city, Anand still has traces of its rural past which can be seen when one is traveling to this wonderful city. While traveling to Anand, one can also go through the history and the factories of one of the biggest dairy companies in the world - AMUL. The Swami Narayan Mandir in the heart of the city is its main attraction with devotees and lovers of architecture coming from all parts of the state to experience its enchanting beauty.

6. Shop For Bandhej Sarees in Law Garden Night Market in Ahmedabad



One of the most famous gardens of Ahmedabad the Law Garden becomes a favorite place for shopaholics with vendors and shopkeepers bustling on the scene. You can buy exclusive wall hangings, bandhej sarees, chaniyas (long colourful skirts), antique jewelry and more at reasonable price if you use your bargaining skills a bit. Shopping for bandhej sarees is one of the top touristy things to do in Gujarat.

Create your To-Do list

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

```
app.controller("myNoteCtrl", function($scope) {
```

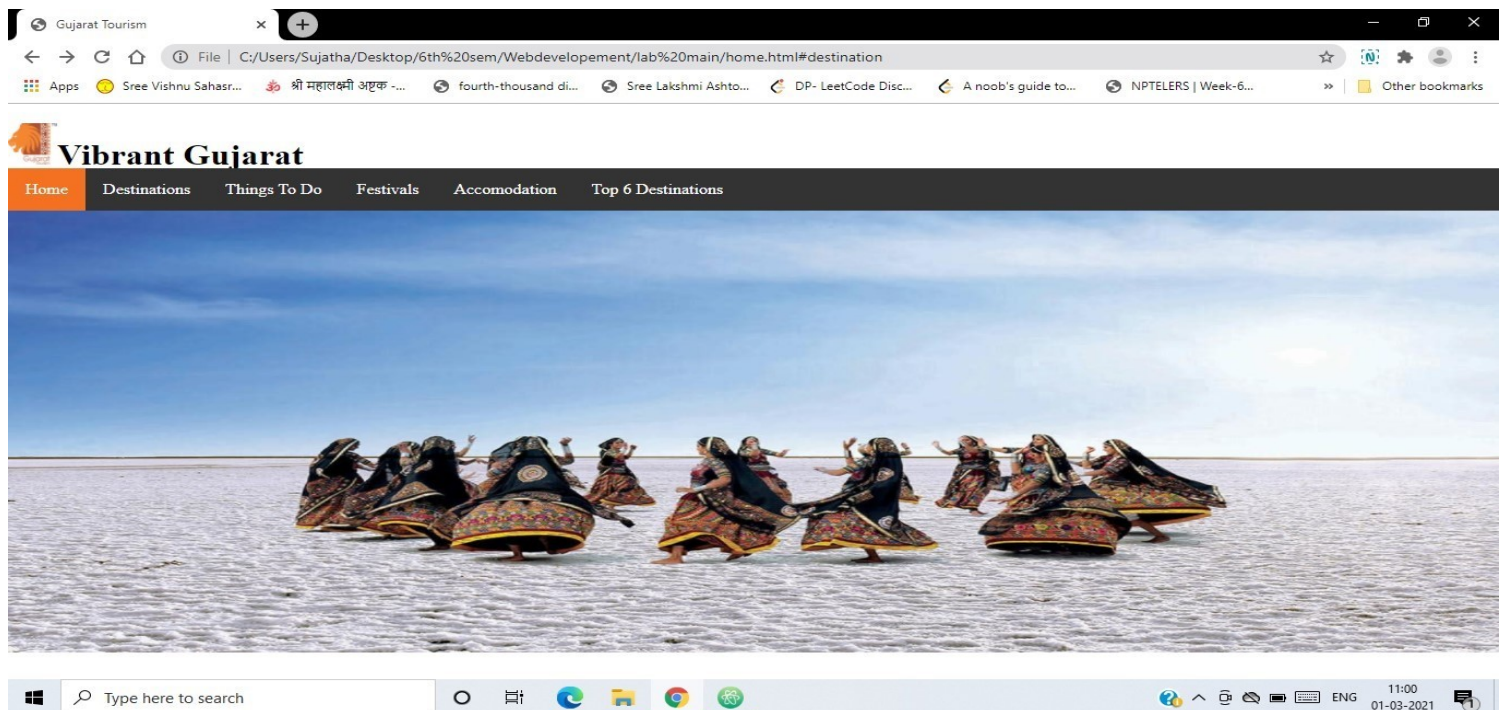
```
$scope.message = "";
```



```
$scope.left = function() {  
  return 100 - $scope.message.length;  
};  
$scope.clear = function() {  
  $scope.message = "";  
};  
$scope.save = function() {  
  alert("Note Saved");  
};  
  
});  
angular.bootstrap(document.getElementById("App2"), ['myNoteApp']);  
</script>  
</div>  
</body>  
</html>
```

Output:

home.html



texteditormain.html

Things to do in Gujarat: Exploring the land of the legends



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2. Spot Asiatic lions at Gir

3. Witness a mesmerising sunset in Kankaria Lake in Ahmedabad

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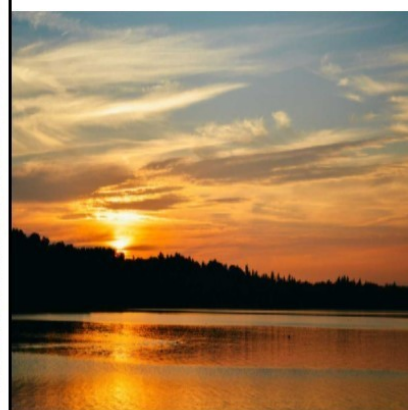
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To Do

File

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

Apps

DSA

stotram

GRE

ML

Problem - B - Code...

Codeforces Round...

Inbox (511) - srivid...

Other bookmarks

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One of the most famous gardens of Ahmedabad the Law Garden becomes a favorite place for shopaholics with vendors and shopkeepers bustling on the scene. You can buy exclusive wall hangings, bandhej sarees, chaniyas (long colourful skirts), antique jewelry and more at reasonable price if you use your bargaining skills a bit. Shopping for bandhej sarees is one of the top touristy things to do in Gujarat.

Create your To-Do list

Type here to search

ENG

11:28

28-03-2021

To Do

File

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

Apps

DSA

stotram

GRE

ML

Problem - B - Code...

Codeforces Round...

Inbox (511) - srivid...

Other bookmarks

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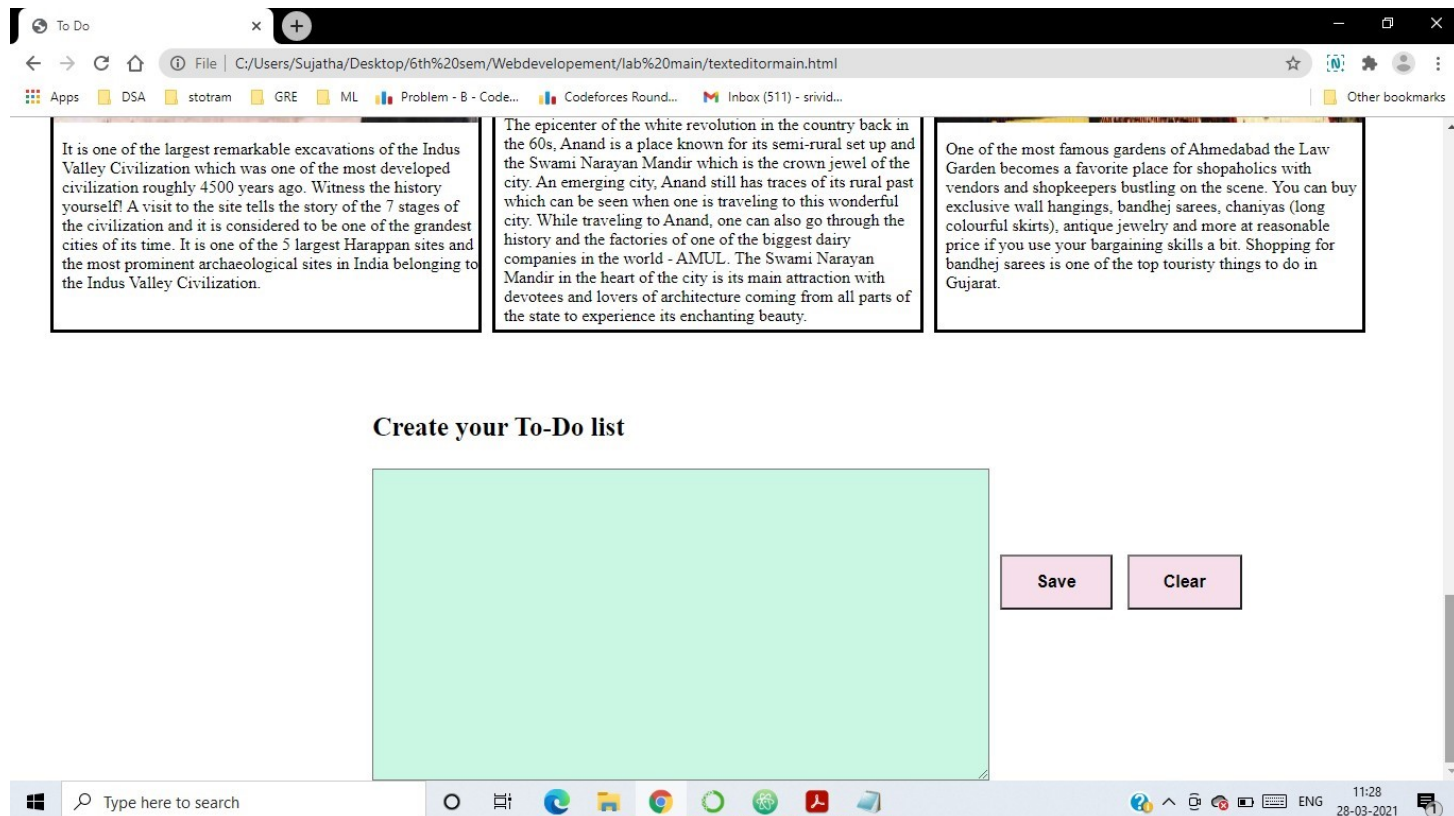
Type here to search

ENG

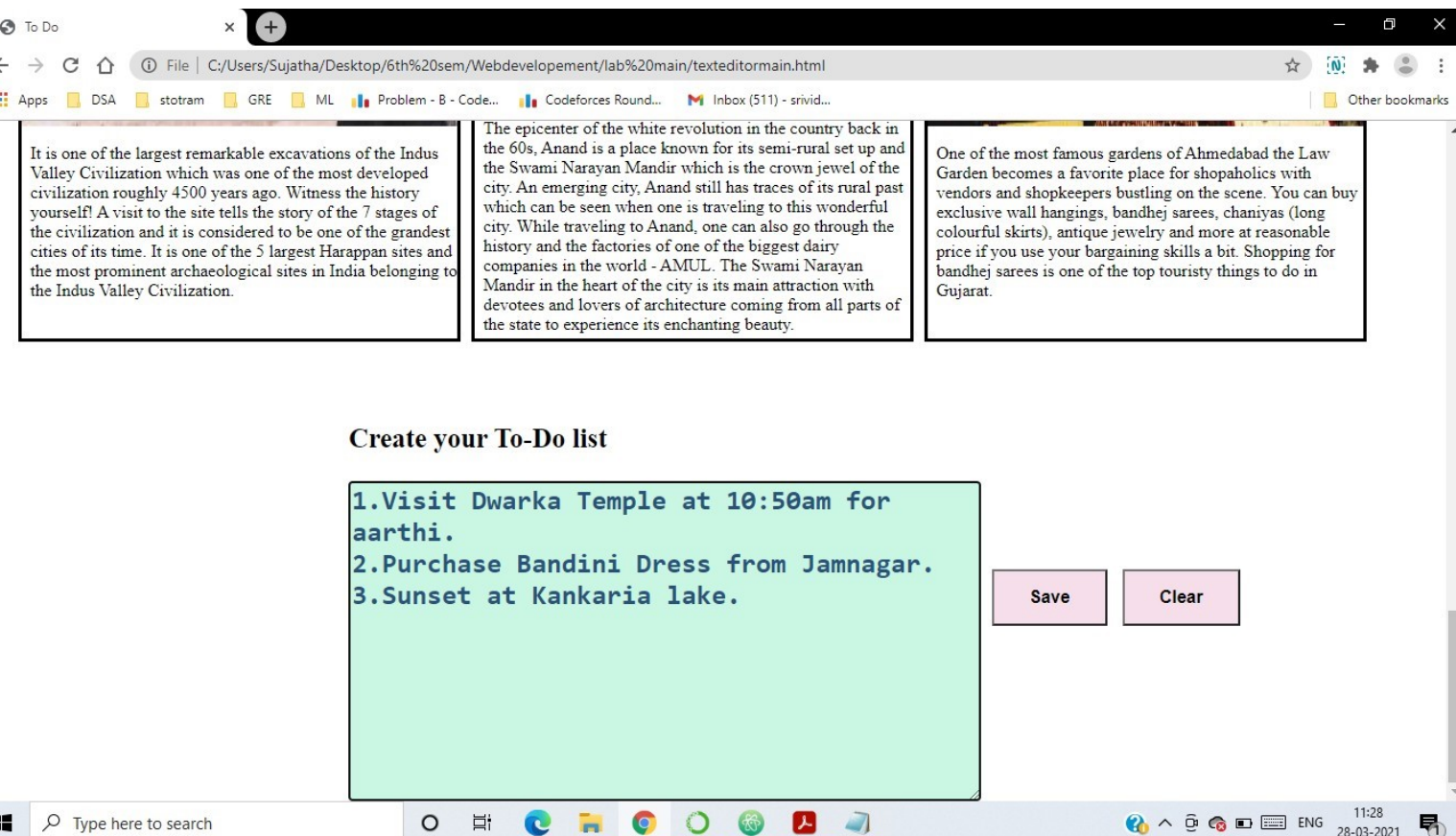
11:27

28-03-2021

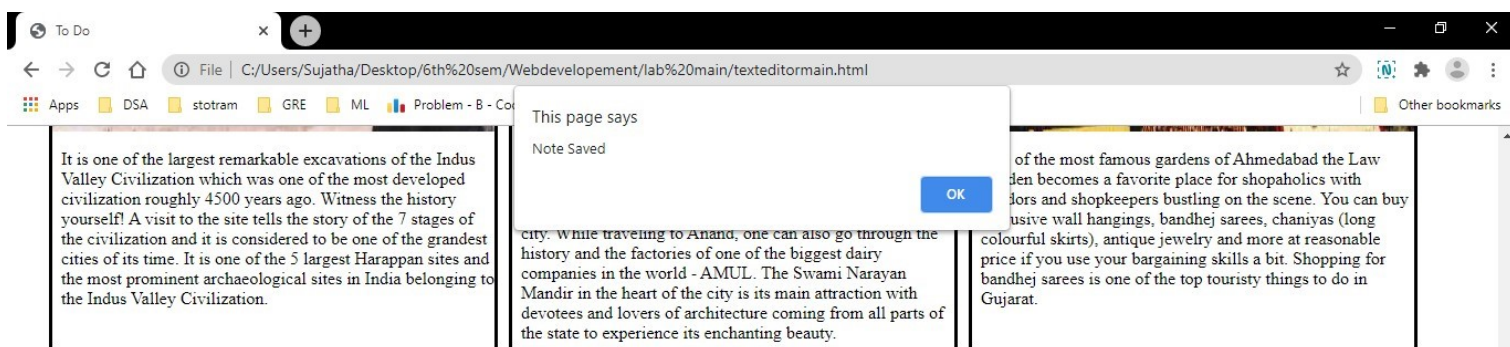
You can add your todo list in the text area and it will be saved.



Sample Todo list:



On clicking save button the todo note gets saved and shows a confirm message.



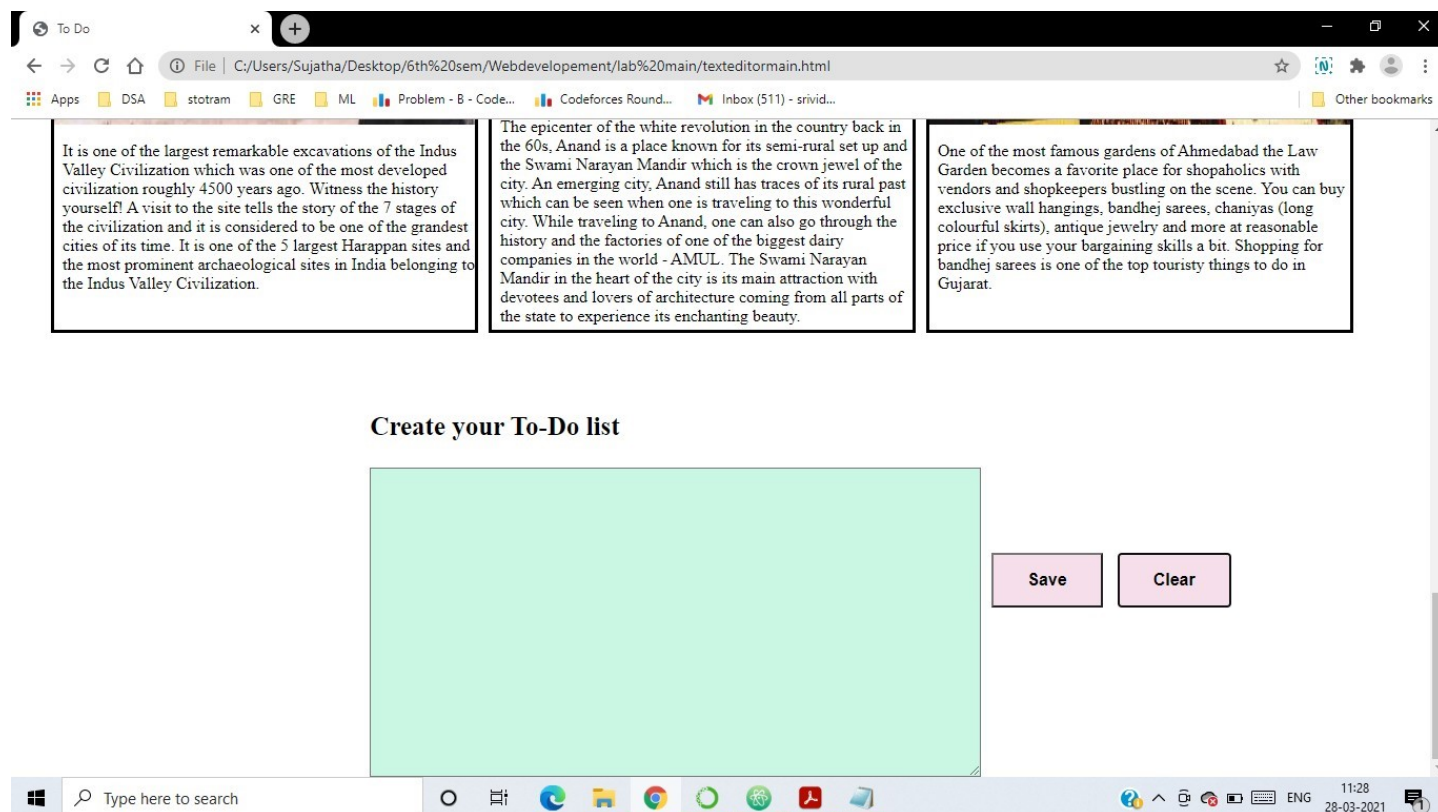
Create your To-Do list

1. Visit Dwarka Temple at 10:50am for aarthi.
2. Purchase Bandini Dress from Jamnagar.
3. Sunset at Kankaria lake.

Save

Clear

On clicking on the clear button the contents of the text area is cleared.



Result:

In this experiment, the code to create an editor using Angular and the output was verified successfully.