

## Angular JS Forms

**Exp No.5**

**Date:10-03-21**

### Objective:

- To Write an Angular program to create form with real time updations
- To implement Book ticket form for my tourism website.
- Based on number of adults and children given as input by the user and the monument chosen total cost is updated.
- As user selects and deselects a checkbox accordingly date of visit will be displayed(Date of visit to a particular monument is available only for 31days from March1 to April1)
- User has to enter his/her Name and Emailid which is validated using angular JS.

### Requirements:

- **Front End Requirements:**
  1. Web Browser HTML support
  2. HTML
  3. CSS
  4. Angular
  5. JavaScript
- **Text Editor/IDE**

### Theory:

#### ➤ **AngularJS Forms**

- AngularJS facilitates you to create a form enriches with data binding and validation of input controls.
- Input controls are ways for a user to enter data. A form is a collection of controls for the purpose of grouping related controls together.
- Following are the input controls used in AngularJS forms:
  - input elements
  - select elements
  - button elements
  - textarea elements
- AngularJS provides multiple events that can be associated with the HTML controls. These events are associated with the different HTML input elements.
- Following is a list of events supported in AngularJS:
  - ng-click

- ng-dbl-click
- ng-mousedown
- ng-mouseup
- ng-mouseenter
- ng-mouseleave
- ng-mousemove
- ng-mouseover
- ng-keydown
- ng-keyup
- ng-keypress
- ng-change

- Data Binding

ng-model directive is used to provide data binding.

- AngularJS Form Validation

- AngularJS provides client-side form validation. It checks the state of the form and input fields (input, textarea, select), and lets you notify the user about the current state.
- It also holds the information about whether the input fields have been touched, or modified, or not.
- Following directives are generally used to track errors in an AngularJS form:
  - \$dirty - states that value has been changed.
  - \$invalid - states that value entered is invalid.
  - \$error - states the exact error.

## **Procedure**

1. Create a front end UI for ticket.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. Write the angular code for validating the text fields entered by the user.
7. Open ticket.html in the browser and give input to the fields for validation and updation.

## **Implementation:**

### **ticket.html**

```
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<meta name="viewport" content="width=device-width, initial-scale=1">
<style>
* {
box-sizing: border-box;
}
.column3 {
padding-left:25px;
float: left;
width: 30%;
padding-right: 10px;
margin-left:30px;
margin-right:15px;
margin-top: 15px;
height: 300px;
}
.column1 {
float: left;
width: 30%;
padding-right: 10px;
margin:15px;
height: 300px;

padding-left:25px;
}
.column2 {
float: left;
width: 30%;
padding-right: 10px;
margin:15px;
height: 300px;
padding-left:25px;
overflow:auto;
}
.row {
background:black;
background: rgba(0, 0,0,0.3)
}
.row:after {
content: "";
display: table;
```

```
clear: both;
}
#heading{
padding-bottom:40px;
color:white;
}
#visitor,#monum,#date3 { padding-left:2px;
font-size:25px;
color:white;
font-weight:bold;
}
#ad,#ch{
padding-left:5px;
padding-bottom:5px;
color:white;
font-size:15px;
}
#cost{
padding-left:5px;
font-size:15px;
font-weight:bold;
color:white;
}
#d1 {
margin-bottom:5px;
}
body{
background-image:url("tent1.jpg");
background-repeat: no-repeat;
background-size:cover;
}
#name,#email{
color:white;
margin-left:40%;
font-weight:bold;
}

btn{
margin-left:43%;
}
#nameerror,#emailerror{
font-weight:bold;
}
#p11 {
padding-left:5px;
padding-bottom:5px;
font-size:16px;
color:white;
}
```

```

#s,#s1,#s2,#s3,#s4,#s5,#s6,#s7,#s8{
color:white;
font-size:18px;
}
#id1,#id2,#idd3,#id4,#id5,#id6,#id7,#id8,#id9{
color:white;
padding-right:5px;
}
#dov1,#dov2,#dov3,#dov4,#dov5,#dov6,#dov7,#dov8,#dov9{
margin-bottom:8px;
}
#note1{
color:#da9ff9;
font-size:20px;
font-weight:bold; }
</style>
</head>
<body>
<h2 id="heading"><center>Entry Ticket(s) Booking</center></h2>
<div class="row">
<div class="column3" style="background: rgba(0, 0,0,0.1);">
<p id="visitor">Visitor Details</p>
<p id="ad">Number Of Adults: <input type="number" id="adult" min="1" max="10"
required></p>
<p id="ch">Number Of Children: <input type="number" id="child" min="0" max="10"
id="child" required></p><br>
<p id="cost">Total Cost:<span id="totalsum"></span></p>
</div>
<div class="column1" style="background:rgba(0, 0,0.1,0.2);">
<p id="monum">Monuments</p>
<input type="checkbox" id="place1" name="place1" onclick="myfunc()"><span
id="pl1">Asokan Rock Edict, Junagadh (INR25/-)</span></input><br>
<input type="checkbox" id="place2" name="place2" onclick="myfunc()"><span
id="pl1">Archaeological Site Museum, Dholavira (INR5/-)</span></input><br>
<input type="checkbox" id="place3" name="place3" onclick="myfunc()"><span
id="pl1">Archaeological Site Museum, Lothal (INR2/-)</span></input><br>
<input type="checkbox" id="place4" name="place4" onclick="myfunc()"><span id="pl1">Baba
Pyare, Khaprakodia Caves (INR20/-)</span></input><br>
<input type="checkbox" id="place5" name="place5" onclick="myfunc()"><span
id="pl1">Buddhish Caves, Junagadh (INR25/-)</span></input><br>
<input type="checkbox" id="place6" name="place6" onclick="myfunc()"><span
id="pl1">Champaner Monuments (INR5/-)</span></input><br>
<input type="checkbox" id="place7" name="place7" onclick="myfunc()"><span id="pl1">Rani
Ki-Vav (INR5/-)</span></input><br>
<input type="checkbox" id="place8" name="place8"
onclick="myfunc()"><span id="pl1">Rudabai Step Well, Adalaj (INR25/-)</span></input><br>
<input type="checkbox" id="place9" name="place9" onclick="myfunc()"><span
id="pl1">Modhera Sun Temple (INR20/-)</span></input><br>
<p id="note1">(Note:Per person charges given)</p>
</div>

```

```
<div class="column2" style="background:rgba(0, 0,0,0.1);">
<p id="date3">Select Monuments to Proceed</p>
<p id="s" style="display:none"></p><br>
<span id="id1" style="display:none">Date Of Visit:</span>
<input type="date" id="dov1" name="dov1" min="2021-03-01" max="2021-04-01"
style="display:none"></input><br>
<p id="s1" style="display:none"></p><br>
<span id="id2" style="display:none">Date Of Visit:</span>
<input type="date" id="dov2" name="dov2" min="2021-03-01" max="2021-04-01"
style="display:none"></input><br>
<p id="s2" style="display:none"></p><br>
<span id="idd3" style="display:none">Date Of Visit:</span>
<input type="date" id="dov3" name="dov3" min="2021-03-01" max="2021-04-01"
style="display:none"></input><br>
<p id="s3" style="display:none"></p><br>
<span id="id4" style="display:none">Date Of Visit:</span>
<input type="date" id="dov4" name="dov4" min="2021-03-01" max="2021-04-01"
style="display:none"></input><br>
<p id="s4" style="display:none"></p><br>
<span id="id5" style="display:none">Date Of Visit:</span>
<input type="date" id="dov5" name="dov5" min="2021-03-01" max="2021-04-01"
style="display:none"></input><br>
<p id="s5" style="display:none"></p><br>
<span id="id6" style="display:none">Date Of Visit:</span>
<input type="date" id="dov6" name="dov6" min="2021-03-01" max="2021-04-01"
style="display:none"></input><br>
<p id="s6" style="display:none"></p><br>
<span id="id7" style="display:none">Date Of Visit:</span>
<input type="date" id="dov7" name="dov7" min="2021-03-01" max="2021-04-01"
style="display:none"></input><br>
<p id="s7" style="display:none"></p><br>
<span id="id8" style="display:none">Date Of Visit:</span>
<input type="date" id="dov8" name="dov8" min="2021-03-01" max="2021-04-01"
style="display:none"></input><br>
<p id="s8" style="display:none"></p><br>
<span id="id9" style="display:none">Date Of Visit:</span>
<input type="date" id="dov9" name="dov9" min="2021-03-01" max="2021-04-01"
style="display:none"></input><br>
</div>
</div>
<script>
function myfunc()
{
var sum=0;
var check1 = document.getElementById("place1");
var check2 = document.getElementById("place2");
var check3 = document.getElementById("place3");
var check4 = document.getElementById("place4");
var check5 = document.getElementById("place5");
var check6 = document.getElementById("place6");
var check7 = document.getElementById("place7");
```

```
var check8 = document.getElementById("place8");
var check9 = document.getElementById("place9");
var x=document.getElementById("adult").value;
if (check1.checked == true){
sum+=25;
document.getElementById("s").innerHTML ="Asokan Rock Edict";
document.getElementById("s").style.display ="inline";
document.getElementById("id1").style.display ="inline";
document.getElementById("dov1").style.display ="inline"; }
else {
document.getElementById("s").style.display = "none";
document.getElementById("dov1").style.display ="none";
document.getElementById("id1").style.display ="none";
}
if (check2.checked == true){
sum+=5;
document.getElementById("s1").innerHTML ="Archaeological Site Museum,Dholavira";
document.getElementById("s1").style.display ="inline";
document.getElementById("id2").style.display ="inline";
document.getElementById("dov2").style.display ="inline";
}
else {
document.getElementById("s1").style.display = "none";
document.getElementById("dov2").style.display ="none";
document.getElementById("id2").style.display ="none";
}
if (check3.checked == true){
sum+=2;
document.getElementById("s2").innerHTML ="Archaeological Site Museum,Lothal";
document.getElementById("s2").style.display ="inline";
document.getElementById("idd3").style.display ="inline";
document.getElementById("dov3").style.display ="inline";
}
else {
document.getElementById("s2").style.display = "none";
document.getElementById("dov3").style.display ="none";
document.getElementById("idd3").style.display ="none";
}
if (check4.checked == true){ sum+=20;
document.getElementById("s3").innerHTML ="Baba Pyare, Khaprakodia Caves";
document.getElementById("s3").style.display ="inline";
document.getElementById("id4").style.display ="inline";
document.getElementById("dov4").style.display ="inline";
}
else {
document.getElementById("s3").style.display = "none";
document.getElementById("dov4").style.display ="none";
document.getElementById("id4").style.display ="none";
}
if (check5.checked == true){
sum+=25;
```

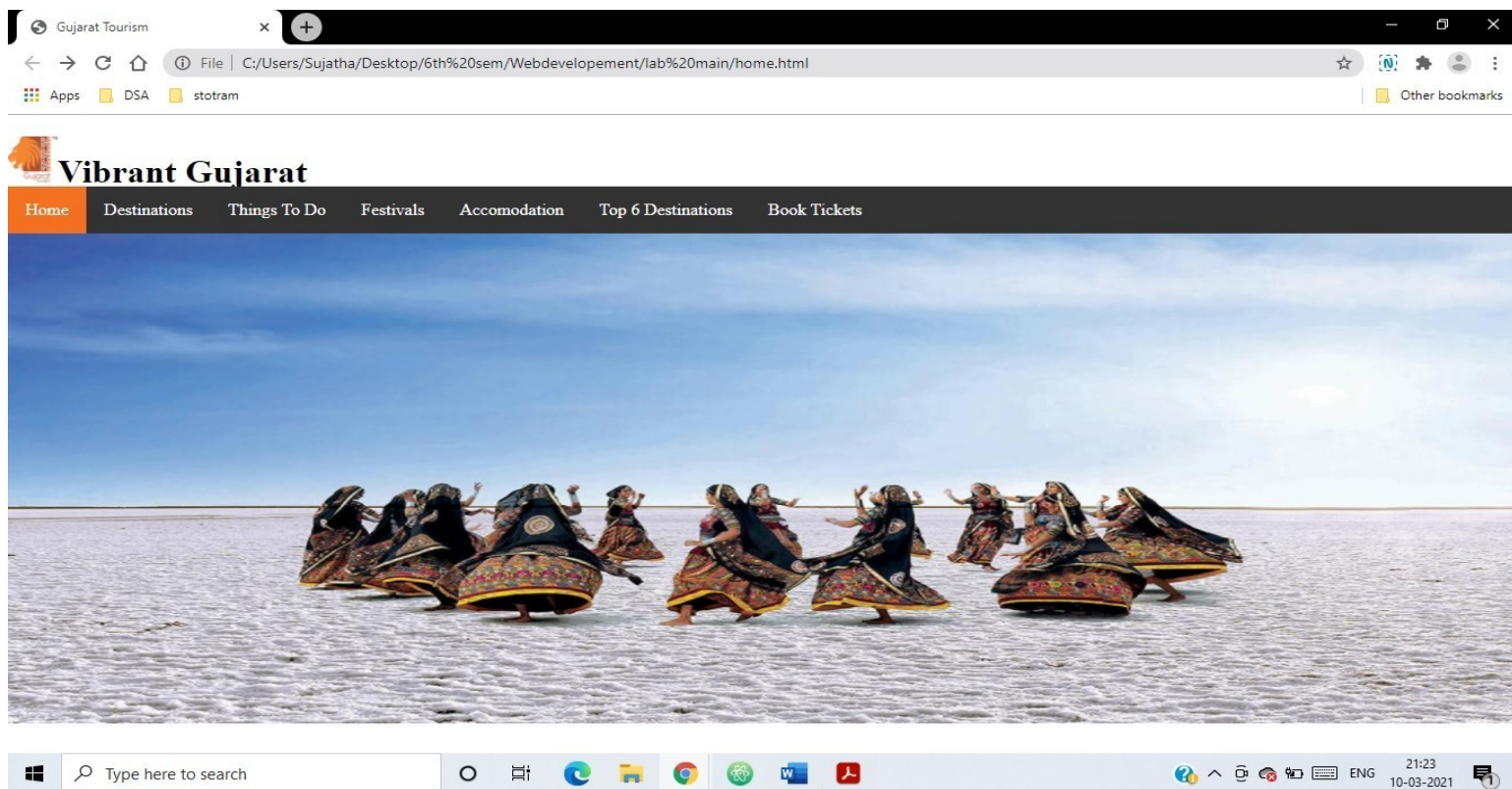
```
document.getElementById("s4").innerHTML="Buddhish Caves, Junagadh";
document.getElementById("s4").style.display="inline";
document.getElementById("id5").style.display="inline";
document.getElementById("dov5").style.display="inline";
}
else {
document.getElementById("s4").style.display="none";
document.getElementById("dov5").style.display="none";
document.getElementById("id5").style.display="none";
}
if (check6.checked == true){
sum+=5;
document.getElementById("s5").innerHTML="Champaner Monumnets";
document.getElementById("s5").style.display="inline";
document.getElementById("id6").style.display="inline";
document.getElementById("dov6").style.display="inline";
}
else {
document.getElementById("s5").style.display="none";
document.getElementById("dov6").style.display="none";
document.getElementById("id6").style.display="none";
}
if (check7.checked == true){
sum+=5;
document.getElementById("s6").innerHTML="Rani Ka-Vav";
document.getElementById("s6").style.display="inline";
document.getElementById("id7").style.display="inline";
document.getElementById("dov7").style.display="inline";
}
else {
document.getElementById("s6").style.display="none";
document.getElementById("dov7").style.display="none";
document.getElementById("id7").style.display="none";
}
if (check8.checked == true){
sum+=25;
document.getElementById("s7").innerHTML="Rudabai Step Well";
document.getElementById("s7").style.display="inline";
document.getElementById("id8").style.display="inline";
document.getElementById("dov8").style.display="inline";
}
else {
document.getElementById("s7").style.display="none";
document.getElementById("dov8").style.display="none";
document.getElementById("id8").style.display="none";
}
if (check9.checked == true){
sum+=20;
document.getElementById("s8").innerHTML="Modhera Sun Temple";
document.getElementById("s8").style.display="inline";
```



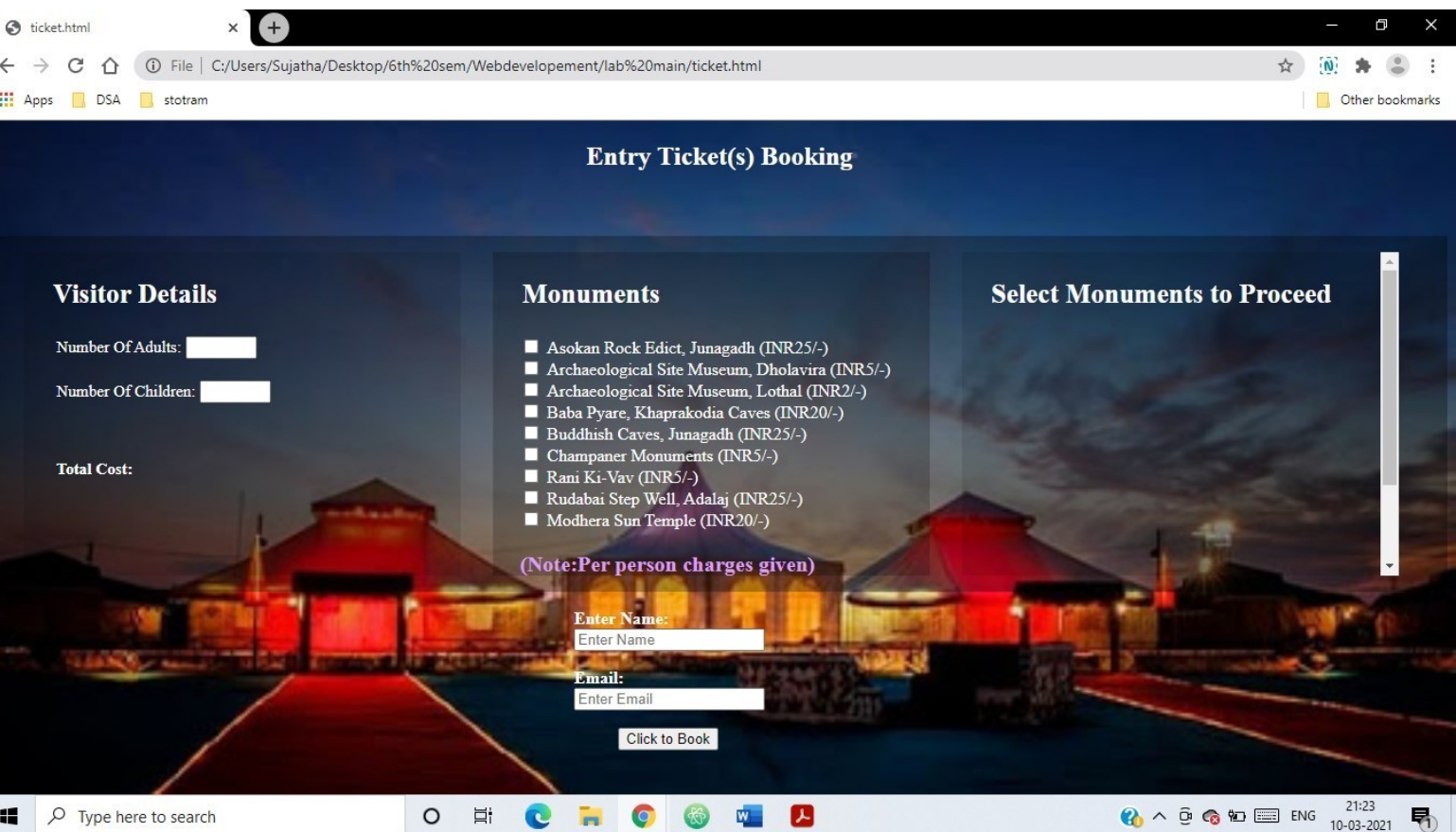
```
document.getElementById("id9").style.display = "inline";
document.getElementById("dov9").style.display = "inline";
}
else {
document.getElementById("s8").style.display = "none";
document.getElementById("dov9").style.display = "none";
document.getElementById("id9").style.display = "none";
}
sum=sum*x;
document.getElementById("totalsum").innerHTML =sum;
}
</script>
<form ng-app="myApp" ng-controller="validateCtrl" name="myForm" novalidate>
<p id="name">Enter Name:<br>
<input type="text" name="user" placeholder="Enter Name" ng-model="user" required>
<span id="nameerror" style="color:#54e346" ng-show="myForm.user.$dirty &&
myForm.user.$invalid">
<span ng-show="myForm.user.$error.required">Username is required.</span>
</span>
</p>
<p id="email">Email:<br>
<input type="email" name="email" placeholder="Enter Email" ng-model="email" required>
<span style="color:#54e346" ng-show="myForm.email.$dirty && myForm.email.$invalid">
<span id="emailerror" ng-show="myForm.email.$error.required">Email is required.</span>
<span id="emailerror" ng-show="myForm.email.$error.email">Invalid email address.</span>
</span>
</p>
<p>
<input type="button" id="btn" value="Click to Book" onclick="confirm()"ng-
disabled="myForm.user.$dirty && myForm.user.$invalid ||
myForm.email.$dirty && myForm.email.$invalid">
</p>
</form>
<script>
var app = angular.module('myApp', []);
app.controller('validateCtrl', function($scope) {
$scope.user = "";
$scope.email = "";
});
function confirm()
{
alert("Your Bookings are Confirmed.Thank You for Visiting Gujarat!!");
}
</script>
</body>
</html>
```

## Output:

### home.html



### ticket.html



**After entering the number of adults and selecting a checkbox data of visit is visible and total cost is updated.**

**Entry Ticket(s) Booking**

**Visitor Details**

Number Of Adults:

Number Of Children:

**Total Cost:50**

**Monuments**

- ☒ Asokan Rock Edict, Junagadh (INR25/-)
- ☐ Archaeological Site Museum, Dholavira (INR5/-)
- ☐ Archaeological Site Museum, Lothal (INR2/-)
- ☐ Baba Pyare, Khaprakodia Caves (INR20/-)
- ☐ Buddhish Caves, Junagadh (INR25/-)
- ☐ Champaner Monuments (INR5/-)
- ☐ Rani Ki Vav (INR5/-)
- ☐ Rudabai Step Well, Adalaj (INR25/-)
- ☐ Modhera Sun Temple (INR20/-)

**(Note:Per person charges given)**

**Enter Name:**

**Email:**

**Select Monuments to Proceed**

Asokan Rock Edict  
Date Of Visit:

Windows taskbar at the bottom shows the search bar, task view button, and several application icons (Edge, File Explorer, Chrome, Zoom, Word, PDF Reader). The system clock indicates 21:24 on 10-03-2021.



**Booking ticket for a monument is only available for 30days from March1 to April1 2021.**

ticket.html

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

Apps DSA stotram

Other bookmarks

## Entry Ticket(s) Booking

### Visitor Details

Number Of Adults:

Number Of Children:

**Total Cost:60**

### Monuments

- ☒ Asokan Rock Edict, Junagadh (INR25/-)
- ☒ Archaeological Site Museum, Dholavira (INR5/-)
- ☐ Archaeological Site Museum, Lothal (INR20/-)
- ☐ Baba Pyare, Khaparakodia Caves (INR20/-)
- ☐ Buddhish Caves, Junagadh (INR25/-)
- ☐ Champaner Monuments (INR5/-)
- ☐ Rani Ki-Vav (INR5/-)
- ☐ Rudabai Step Well, Adalaj (INR25/-)
- ☐ Modhera Sun Temple (INR20/-)

(Note:Per person charges given)

Enter Name:

Email:

Click to Book

### Select Monuments to Proceed

Asokan Rock Edict  
Date Of Visit:

Archaeologic  
Date Of Visit:

March, 2021

Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4
5	6	7	8	9	10	11

Today

Type here to search

21:24 10-03-2021

ticket.html

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

Apps DSA stotram

Other bookmarks

## Entry Ticket(s) Booking

### Visitor Details

Number Of Adults:

Number Of Children:

**Total Cost:64**

### Monuments

- ☒ Asokan Rock Edict, Junagadh (INR25/-)
- ☒ Archaeological Site Museum, Dholavira (INR5/-)
- ☒ Archaeological Site Museum, Lothal (INR20/-)
- ☐ Baba Pyare, Khaparakodia Caves (INR20/-)
- ☐ Buddhish Caves, Junagadh (INR25/-)
- ☐ Champaner Monuments (INR5/-)
- ☐ Rani Ki-Vav (INR5/-)
- ☐ Rudabai Step Well, Adalaj (INR25/-)
- ☐ Modhera Sun Temple (INR20/-)

(Note:Per person charges given)

Enter Name:

Email:

Click to Book

### Select Monuments to Proceed

Asokan Rock Edict  
Date Of Visit:

Archaeological Site Museum,Dholavira  
Date Of Visit:

Archaeological Site Museum,Lothal  
Date Of Visit:

Type here to search

21:24 10-03-2021

**After de-selecting the third check box(Archaeological site Museum,Lothal) total cost gets updated, date of visit for the monument disappears.**

**Entry Ticket(s) Booking**

**Visitor Details**

Number Of Adults:

Number Of Children:

**Total Cost:60**

**Monuments**

- ☒ Asokan Rock Edict, Junagadh (INR25/-)
- ☒ Archaeological Site Museum, Dholavira (INR5/-)
- ☐ Archaeological Site Museum, Lothal (INR20/-)
- ☐ Baba Pyare, Khaprakodia Caves (INR20/-)
- ☐ Buddhish Caves, Junagadh (INR25/-)
- ☐ Champaner Monuments (INR5/-)
- ☐ Rani Ki-Vav (INR5/-)
- ☐ Rudabai Step Well, Adalaj (INR25/-)
- ☐ Modhera Sun Temple (INR20/-)

(Note:Per person charges given)

Enter Name:

Email:

**Select Monuments to Proceed**

Asokan Rock Edict  
Date Of Visit:

Archaeological Site Museum,Dholavira  
Date Of Visit:

**Username validation. Username is required to carry out further bookings. Button gets disabled.**

**Entry Ticket(s) Booking**

**Visitor Details**

Number Of Adults:

Number Of Children:

**Total Cost:60**

**Monuments**

- ☒ Asokan Rock Edict, Junagadh (INR25/-)
- ☒ Archaeological Site Museum, Dholavira (INR5/-)
- ☐ Archaeological Site Museum, Lothal (INR20/-)
- ☐ Baba Pyare, Khaprakodia Caves (INR20/-)
- ☐ Buddhish Caves, Junagadh (INR25/-)
- ☐ Champaner Monuments (INR5/-)
- ☐ Rani Ki-Vav (INR5/-)
- ☐ Rudabai Step Well, Adalaj (INR25/-)
- ☐ Modhera Sun Temple (INR20/-)

(Note:Per person charges given)

Enter Name:  
 Username is required.

Email:

**Select Monuments to Proceed**

Asokan Rock Edict  
Date Of Visit:

Archaeological Site Museum,Dholavira  
Date Of Visit:



## Email validation. Proper Email should be entered. Button gets disabled.

The screenshot shows a web browser window with the address bar displaying "C:/Users/Sujatha/Desktop/6th%20sem/Webdevelopment/lab%20main/ticket.html". The page title is "ticket.html". The main content area is titled "Entry Ticket(s) Booking" and features a background image of a temple at night. The form is divided into three columns: "Visitor Details", "Monuments", and "Select Monuments to Proceed".

**Visitor Details**

Number Of Adults:

Number Of Children:

**Total Cost:60**

**Monuments**

- ☒ Asokan Rock Edict, Junagadh (INR25/-)
- ☒ Archaeological Site Museum, Dholavira (INR5/-)
- ☐ Archaeological Site Museum, Lothal (INR2/-)
- ☐ Baba Pyare, Khaparakodia Caves (INR20/-)
- ☐ Buddhish Caves, Junagadh (INR25/-)
- ☐ Champaner Monuments (INR5/-)
- ☐ Rani Ki-Vav (INR5/-)
- ☐ Rudabai Step Well, Adalaj (INR25/-)
- ☐ Modhera Sun Temple (INR20/-)

(Note:Per person charges given)

Enter Name:

Email:  Invalid email address.

Click to Book

**Select Monuments to Proceed**

Asokan Rock Edict  
Date Of Visit:

Archaeological Site Museum,Dholavira  
Date Of Visit:

## Acknowledgement to user after successful bookings made.

The screenshot shows the same web browser window, but now a confirmation message is displayed. The message box says "This page says Your Bookings are Confirmed.Thank You for Visiting Gujarat!!" with an "OK" button. The form fields are now filled with valid information.

**Visitor Details**

Number Of Adults:

Number Of Children:

**Total Cost:60**

**Monuments**

- ☒ Asokan Rock Edict, Junagadh (INR25/-)
- ☒ Archaeological Site Museum, Dholavira (INR5/-)
- ☐ Archaeological Site Museum, Lothal (INR2/-)
- ☐ Baba Pyare, Khaparakodia Caves (INR20/-)
- ☐ Buddhish Caves, Junagadh (INR25/-)
- ☐ Champaner Monuments (INR5/-)
- ☐ Rani Ki-Vav (INR5/-)
- ☐ Rudabai Step Well, Adalaj (INR25/-)
- ☐ Modhera Sun Temple (INR20/-)

(Note:Per person charges given)

Enter Name:

Email:

Click to Book

**Select Monuments to Proceed**

Asokan Rock Edict  
Date Of Visit:

Archaeological Site Museum,Dholavira  
Date Of Visit:

**Result:**

In this experiment, the code to create a angularJS, to implement forms and real time updates has been written and the output was verified successfully.