THE COMPLETE WEB DEVELOPMENT COURSE

STEP BY STEP WITH NO STEP SKIPPED

Distance between cities App

SOURCE CODE

DEVELOPMENT ISLAND
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```php
<!--index.php-->
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,
initial-scale=1">
    <!-- The above 3 meta tags *must* come first in the
head; any other head content must come *after* these tags
-->
    <title>Distance btw Cities App</title>

    <!-- Bootstrap -->
    <link href="css/bootstrap.min.css" rel="stylesheet">
    <link href="styling.css" rel="stylesheet">
    <link
href='https://fonts.googleapis.com/css?family=Arvo'
rel='stylesheet' type='text/css'>

    <!-- HTML5 shim and Respond.js for IE8 support of
HTML5 elements and media queries -->
    <!-- WARNING: Respond.js doesn't work if you view the
page via file:// -->
    <!--[if lt IE 9]>
```

```html
      <script
src="https://oss.maxcdn.com/html5shiv/3.7.2/html5shiv.min.
js"></script>
      <script
src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js">
</script>
    <![endif]-->
  </head>
  <body>

      <div class="jumbotron">
          <div class="container-fluid">
              <h1>Distance between cities App.</h1>
              <p>Our app will help you calculate
travelling distances.</p>
              <form class="form-horizontal">
                  <div class="form-group">
                      <label for="from" class="col-xs-2
control-label">From:</label>
                      <div class="col-xs-10">
                          <input type="text" id="from"
placeholder="Origin" class="form-control">
                      </div>
                  </div>
                  <div class="form-group">
                      <label for="to" class="col-xs-2
control-label">To:</label>
                      <div class="col-xs-10">
                          <input type="text" id="to"
placeholder="Destination" class="form-control">
                      </div>
                  </div>
              </form>

              <div class="col-xs-offset-2 col-xs-10">
              <button class="btn btn-info btn-lg"
onclick="calcRoute();">Submit</button>
                  </div>
          </div>
          <div class="container-fluid">
              <div id="googleMap">
```

```html
                </div>
                <div id="output">

                </div>
            </div>

        </div>

    <!-- jQuery (necessary for Bootstrap's JavaScript
plugins) -->
        <script
src="https://maps.googleapis.com/maps/api/js?key=AIzaSyCwJ
2Vepe9L2Miuh7QH87SR_RItIXHlX6Q&libraries=places"></script>
        <script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/j
query.min.js"></script>
    <!-- Include all compiled plugins (below), or include
individual files as needed -->
        <script src="js/bootstrap.min.js"></script>
        <script src="javascript.js"></script>
    </body>
</html>
```

```css
/*styling.css*/
/*add font family, background image*/

body{
    background: url(road.jpg) center center fixed;
    background-size: cover;
    color: #fff;
    font-family: Arvo, serif;
}

/*Jumbotron*/
.jumbotron{
    background-color: transparent;
    margin: 0;
    padding: 10px;
}
```

```css
.jumbotron h1{
    letter-spacing: 2.5px;
}
.jumbotron h1, .jumbotron p {
    text-align: center;
}

/*map*/
#googleMap{
    width: 100%;
    height: 200px;
    margin: 10px auto;
}

/*output box*/
#output{
        text-align: center;
    font-size: 2em;
    margin: 20px auto;
}
```

```javascript
//javascript.js
//set map options
            var myLatLng = {lat: 51.5, lng: -0.1};
            var mapOptions = {
                center: myLatLng,
                zoom: 7,
                mapTypeId: google.maps.MapTypeId.ROADMAP

            };

            //create map
            var map = new
google.maps.Map(document.getElementById('googleMap'),
mapOptions);

//create a DirectionsService object to use the route
method and get a result for our request
            var directionsService = new
google.maps.DirectionsService();
```

```javascript
        //create a DirectionsRenderer object which we
will use to display the route
        var directionsDisplay = new
google.maps.DirectionsRenderer();

        //bind the DirectionsRenderer to the map
        directionsDisplay.setMap(map);


//define calcRoute function
function calcRoute(){
    //create request
    var request = {
        origin: document.getElementById("from").value,
        destination: document.getElementById("to").value,
        travelMode: google.maps.TravelMode.DRIVING,
//WALKING, BYCYCLING, TRANSIT
        unitSystem: google.maps.UnitSystem.IMPERIAL
    }

    //pass the request to the route method
    directionsService.route(request, function(result,
status){
    if(status == google.maps.DirectionsStatus.OK){

        //Get distance and time
        $("#output").html("<div class='alert-info'>From:
"+document.getElementById("from").value+".<br />To:
"+document.getElementById("to").value+".<br /> Driving
distance: "+result.routes[0].legs[0].distance.text+".<br
/>Duration:
"+result.routes[0].legs[0].duration.text+".</div>");

        //display route
        directionsDisplay.setDirections(result);
    }else{
        //delete route from map
        directionsDisplay.setDirections({routes: []});
        //center map in London
        map.setCenter(myLatLng);
```

```
        //show error message
        $("#output").html("<div class='alert-danger'>Could
not retrieve driving distance.</div>");
    }
    });

}



//create autocomplete objects for all inputs
var options = {
    types: ['(cities)']
}

var input1 = document.getElementById("from");
var autocomplete1 = new
google.maps.places.Autocomplete(input1, options);

var input2 = document.getElementById("to");
var autocomplete2 = new
google.maps.places.Autocomplete(input2, options);
```