

Practical - 4

Aim: Develop application to consume Google's search / Google's Map RESTful Web service.

STEPS:

1. First of all we need to create a Java Web Application with any name, let it be GoogleMap here using Netbeans IDE.
2. The code inside the input.jsp will be similar to this input.jsp


```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
</head>
<body>
    <form action="index.jsp">
        <pre>
        Enter latitude:<input type="text"
        name="t1" /> Enter longitude:<input
        type="text" name="t2" />
        <input type="submit" value="Show" />
        </pre>
    </form>
</body>
</html>
```

3. Before running the application we need the Google API key. The steps are shown here:


- Visit Google APIs Console (<https://console.developers.google.com>, you have to login with your Google account)

Create a new API Project.

Select a project








 NEW PROJECT

Search projects and folders



RECENT

ALL

Name	ID
  GoogleMap 	eminent-kit-237101
 Practical6 	practical6-235906
 My Project 	lateral-shore-180303

CANCEL

OPEN


- Enter the name to your project.

https://mahad x | New announce x | M. Sc CS 2018 x | syllabus_msc_i x | Java Web Serv x

← → ↻ https://console.developers.google.com/projectcreate?previousPage=%2Fapis%2Fdashboard

Google APIs

New Project

 You have 7 projects remaining in your quota. Request an increase or delete projects. [Learn more](#)

[MANAGE QUOTAS](#)

Project name *

Project ID: zeta-environs-237517. It cannot be changed later. [EDIT](#)

Location * [BROWSE](#)

Parent organization or folder

[CREATE](#) [CANCEL](#)


- Enable the Google Maps API V3.

Browser tabs: <https://mahad...> x | [New announce...](#) x | [M. Sc CS 2018...](#) x | [syllabus_msc...](#) x | [Java Web Serv...](#) x | [Microsoft Wor...](#) x | [\(19\) Alan W...](#)

Address bar: <https://console.developers.google.com/apis/library/maps-backend.googleapis.com?id=fd73ab50-9916-4cde-a0f6-dc8be0a0d425&q>

Navigation: [Google APIs](#) [GoogleMap](#) [Search](#)

API Library



Maps JavaScript API

Google

Maps for your website

[MANAGE](#) ✓ API enabled

Type
APIs & services

Last updated
1/10/19, 2:02 AM

Category
Maps

Service name
maps-backend.googleapis.com

Overview

Add a map to your website, providing imagery and local data from the same source as Google Maps. Style the map to suit your needs. Visualize your own data on the map, bring the world to life with Street View, and use services like geocoding and directions.

About Google

Google's mission is to organize the world's information and make it universally accessible and useful. Through products and platforms like Search, Maps, Gmail, Android, Google Play, Chrome and YouTube, Google plays a meaningful role in the daily lives of billions of people.

Tutorials and documentation

4. Create another file index.jsp

Index.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>

<html>

<head>

<style>
#map {
height: 400px;
width: 100%;
}
</style>

</head>

<body>

<%
```

```
double lati=Double.parseDouble(request.getParameter("t1")); double  
longi=Double.parseDouble(request.getParameter("t2"));  
%>
```

```
<h3> Google Maps </h3>
```

```
<div id="map"></div>
```

```
<script lang="javascript">
```

```
function initMap() {
```

```
var info={lat: <%=lati%>, lng: <%=longi%>};
```

```
var map = new google.maps.Map(document.getElementById('map'),
```

```
{
```

```
zoom: 4, center: info
```

```
});
```

```
var marker = new
```

```
google.maps.Marker({ position: info,
```

```
map: map
```

```
});
```

```
}
```

```
</script>
```

```
<script async defer src="put
```

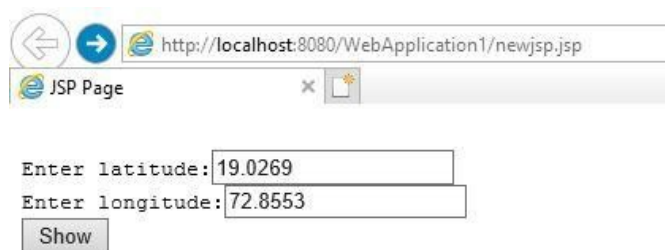
```
your key here">
```

```
</script>
```

```
</body>
```

```
</html>
```

Output :-



The screenshot shows a web browser window with the address bar displaying "http://localhost:8080/WebApplication1/newjsp.jsp". The page title is "JSP Page". The main content area contains two input fields: "Enter latitude:" with the value "19.0269" and "Enter longitude:" with the value "72.8553". Below these fields is a "Show" button.



Google Maps

