

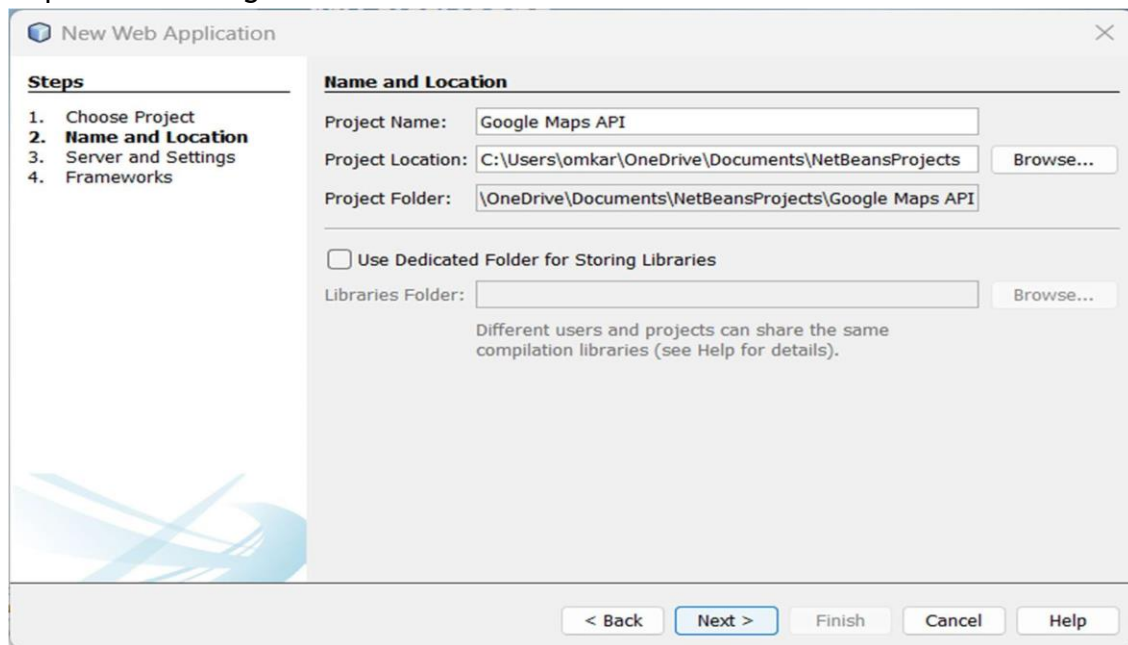
**Roll no: 18**

## **Practical 4 - Create a Simple RESTful Web service:**

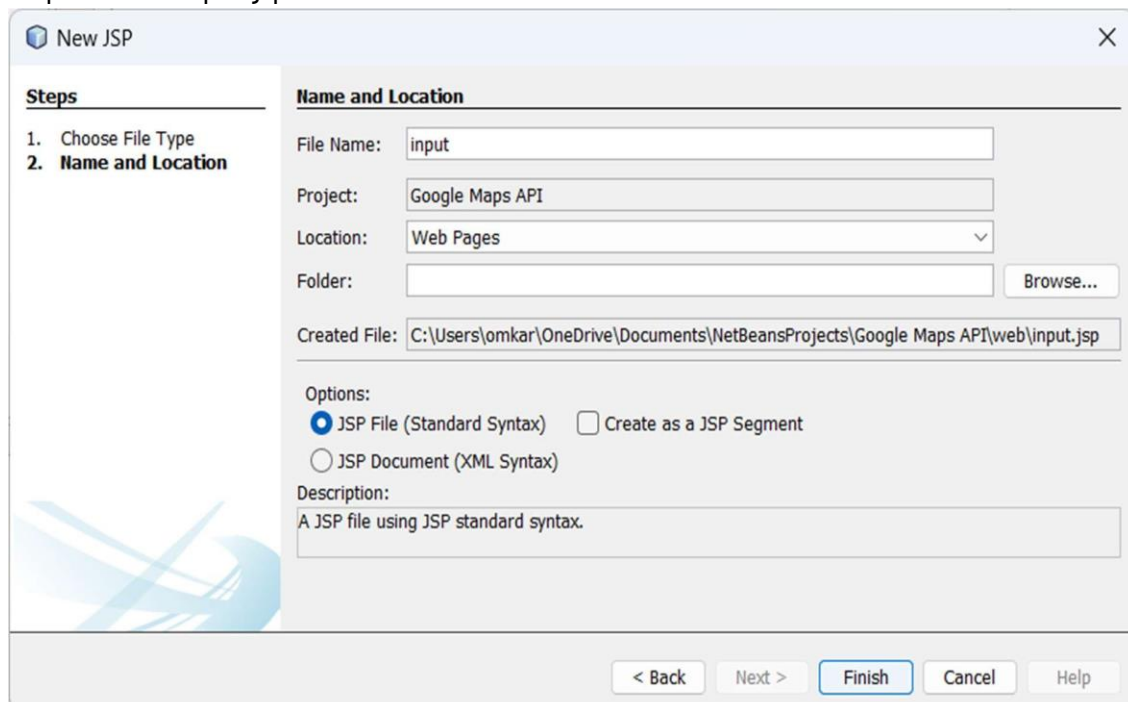
**Aim:** Develop application to consume Google's search / Google's Map RESTful Web service.

### **Steps:**

Step 1: First of all, we need to create a Java Web Application with any name, let it be Google Maps API here using NetBeans IDE.



Step 2: Create input.jsp.



Step 3: The code inside the input.jsp will be:

### 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>
```

Step 4: 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).

## a) Create a new API Project.

New Project

You have 9 projects remaining in your quota. Request an increase or delete projects. [Learn more](#)

[MANAGE QUOTAS](#)

Project name \*  
Google Maps

Project ID: avid-math-418403. It cannot be changed later. [EDIT](#)

Location \*  
No organization [BROWSE](#)

Parent organization or folder

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

## b) Enable the Google Maps API V3.

API Library

Welcome to the API Library  
The API Library has documentation, links, and a smart search experience.

Search for APIs & Services

Filter Type to filter

Visibility

- Public (452)
- Private (2)

Category

- Analytics (9)
- Big data (21)

Maps

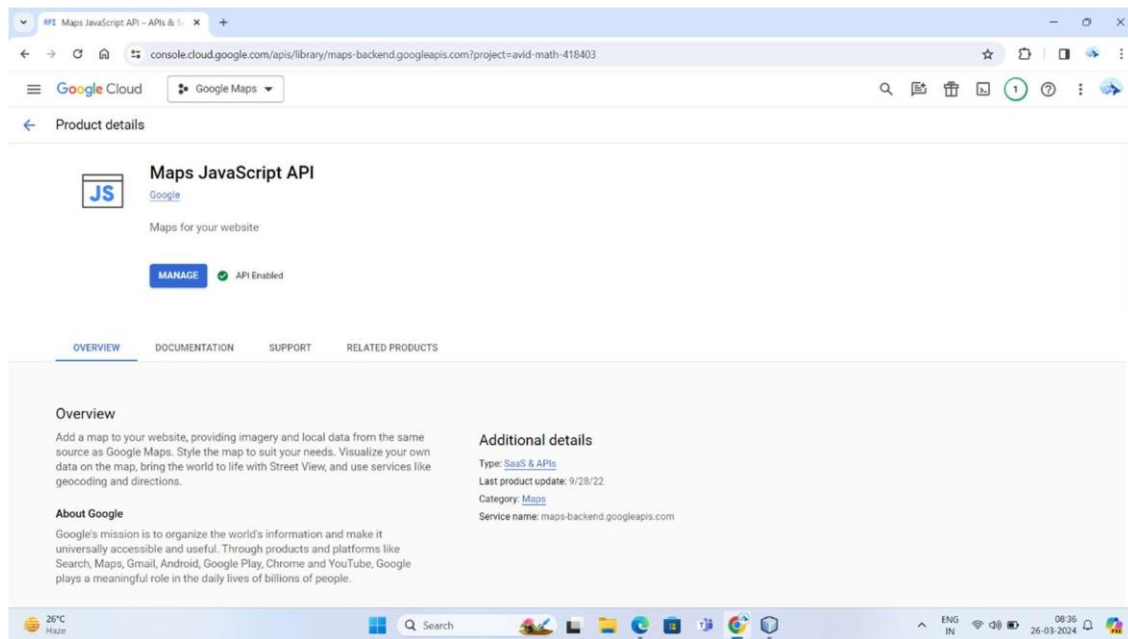
[VIEW ALL \(23\)](#)

**Maps SDK for Android**  
Google  
Maps for your native Android app.

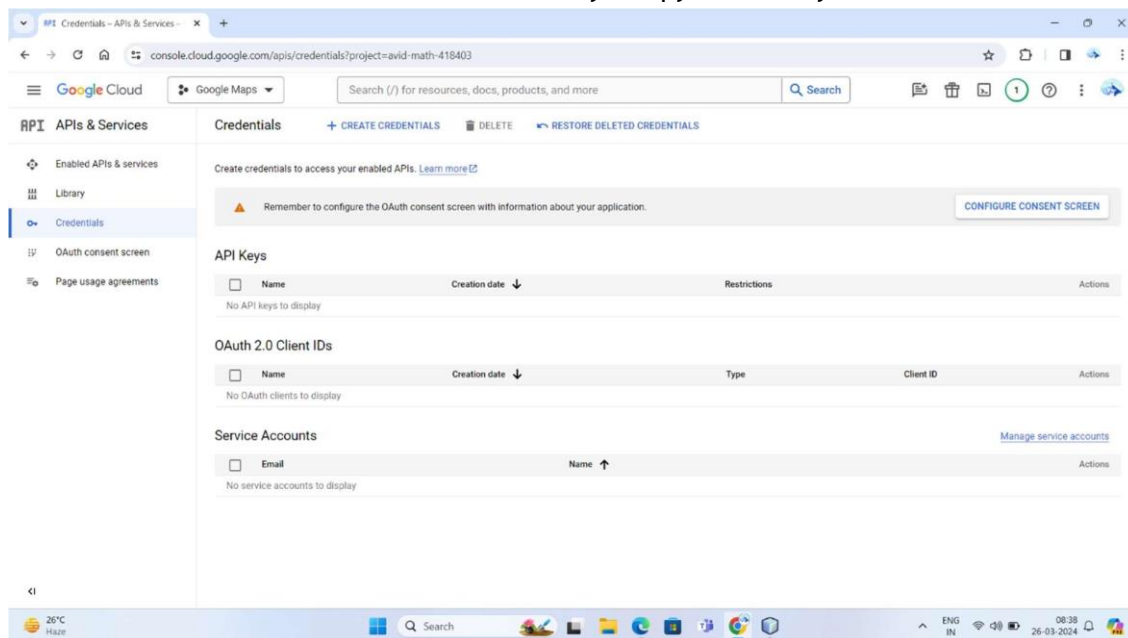
**Maps SDK for iOS**  
Google  
Maps for your native iOS app.

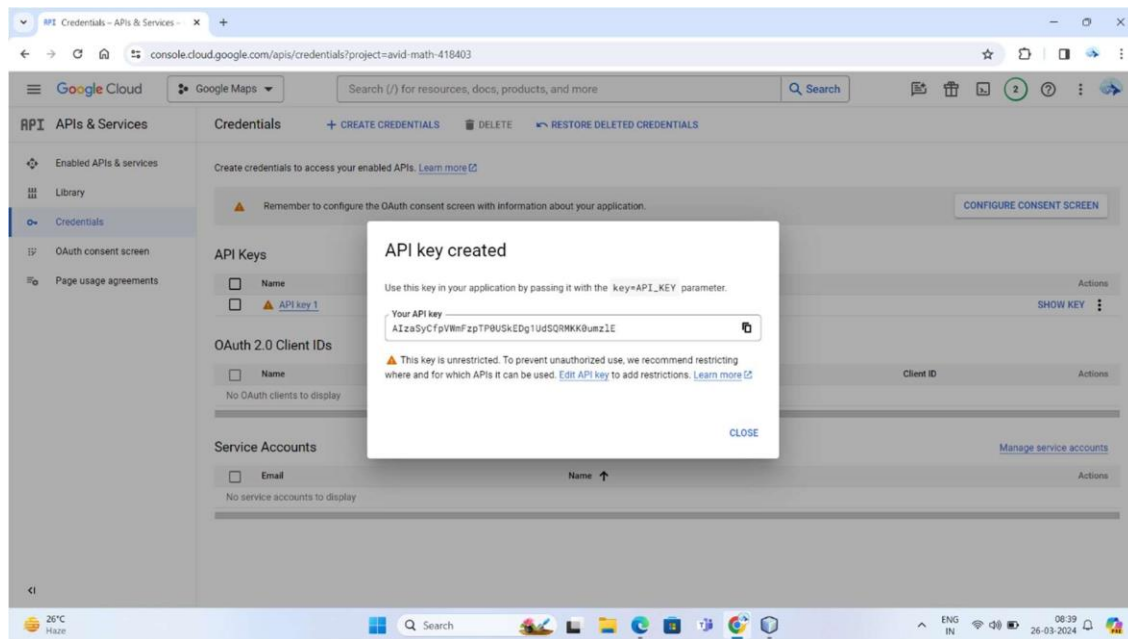
**Maps JavaScript API**  
Google  
Maps for your website

**Places API**  
Google Enterprise API  
Get detailed information about 100 million places

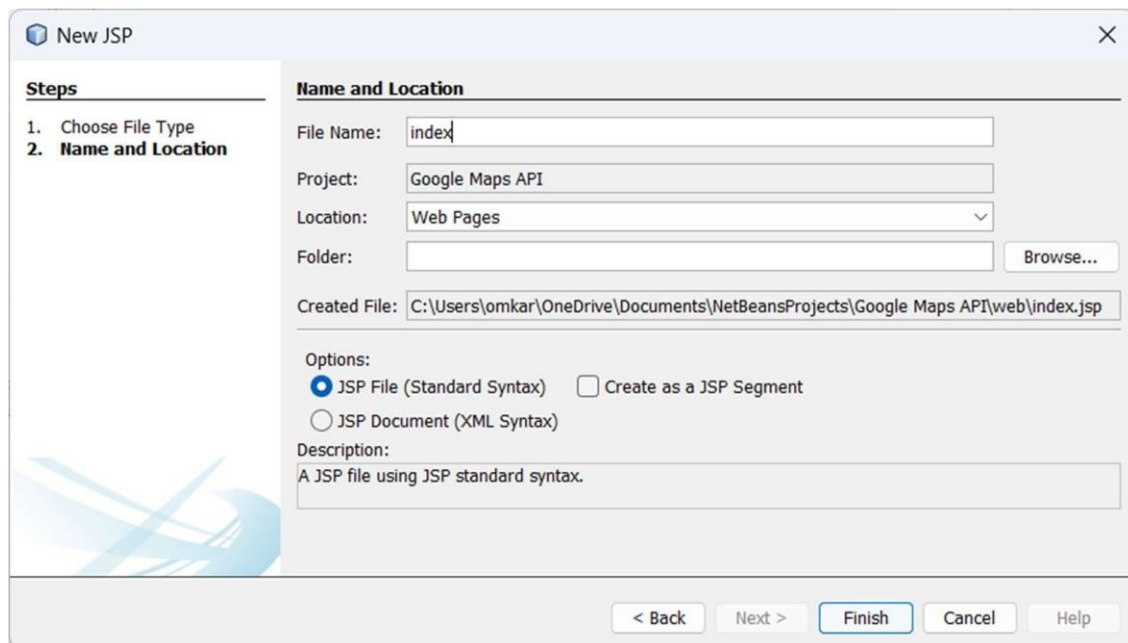


Step 5: Now, to create an API key, go to Google Cloud > Enabled API and Services > Credentials > Create Credentials > Create API Key > Copy the API key.





Step 6: Create another 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="https://maps.googleapis.com/maps/api/js?key=AlzaSyCfpVWmF
    zpTP0USkEdg1UdSQRMKK0umzIE&callback=initMap">
</script>

</body>

</html>

```

Step 7: Run “input.jsp” file.

**Outputs:**

