

EX NO 1	GEOGRAPHIC INFORMATION SYSTEM USING HTML IMAGE MAP
----------------	---

Objective:

To create an interactive web page that displays a country map with clickable regions. When a user clicks on a region, it redirects them to a page displaying demographic and economic data for that region.

Tools Required:

- **Software:**
 - Web Browser (Chrome, Firefox, Edge, etc.)
 - Text Editor (Notepad, VS Code, Sublime Text)
- **Technologies:**
 - HTML
- **Resources:**
 - Country map image (JPEG/PNG)
 - Image mapping tool (e.g., image-map.net)

Procedure:

1. **Select a Country Map:**
 - Use a clear image of the country with visible state or region boundaries.
2. **Create an HTML Page:**
 - Use the tag to display the country map.
 - Define an <map> element with clickable regions.
3. **Define Clickable Regions:**
 - Use an image mapping tool to determine the coordinates of each region.
 - Use the <area> tag to link each region to its respective webpage containing demographic and economic data.
4. **Save and Run the File:**
 - Save the HTML file and open it in a browser to test the clickable regions.

Code:

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Geographic Information System</title>
  <style>
    h1 {
      text-align: center;
    }
    .image-container {
      text-align: center;
    }
  </style>
</head>
<body>
<h1>Geographic Information System</h1>
<p style="text-align: center;">Click on a state to view its demographic and economic
data.</p>
<div class="image-container">
  
</div>
<map name="image-map">
  <area target="_blank" alt="maharashtra" title="Maharashtra" href="maharashtra.html"
coords="151,419,301,430,140,549,118,459" shape="poly">
  <area target="_blank" alt="rajasthan" title="Rajasthan" href="rajasthan.html"
coords="48,277,155,210,225,291,145,361" shape="poly">
  <area target="_blank" alt="uttar pradesh" title="Uttar Pradesh" href="uttar pradesh.html"
coords="230,211,375,286,358,335,273,310" shape="poly">
  <area target="_blank" alt="tamil nadu" title="Tamil nadu" href="tamil nadu.html"
coords="286,625,210,672,226,745,277,692" shape="poly">
```

```
<area target="_blank" alt="gujarat" title="Gujarat" href="gujarat.html"
coords="17,352,147,375,117,421,44,418" shape="poly">
</map>
</body>
</html>
```

maharastra.html

```
<!DOCTYPE html>

<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Maharastra</title>
</head>
<body>
  <h1>Maharastra</h1>
  
  <p>
    <h3>Demographic Profile:</h3>
    Population : 112.37 million
    <h3>Economic Profile:</h3>
    GSDP : US$339.85 billion in 2019-2020
  </p>
</body>
</html>
```

rajasthan.html

```
<!DOCTYPE html>

<html lang="en">
<head>
```

```
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Rajasthan</title>
</head>
<body>
  <h1>Rajasthan</h1>
  
  <p>
    <h3>Demographic Profile:</h3>
    Population: 68.5 million (2011 census).
    <h3>Economic Profile:</h3>
    GDP: ₹10.20 lakh crore (US$120 billion).
  </p>
</body>
</html>
```

uttar pradesh.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Uttar Pradesh</title>
</head>
<body>
  <h1>Uttar Pradesh</h1>
  
  <p>
    <h3>Demographic Profile:</h3>
    Population : 240 million
    <h3>Economic Profile:</h3>
```

GSDP : 25.48 lakh crore (US\$310 billion) in 2023-2024

</p>

</body>

</html>

tamil nadu.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Tamil Nadu </title>

</head>

<body>

<h1>Tamil Nadu</h1>

<p>

<h3>Demographic Profile:</h3>

Population : 72 million

<h3>Economic Profile:</h3>

GSDP : ₹27.22 trillion (US\$310 billion)

</p>

</body>

</html>

gujarat.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>Gujarat</title>
```

```
</head>
```

```
<body>
```

```
<h1>Gujarat</h1>
```

```

```

```
<p>
```

```
<h3>Demographic Profile:</h3>
```

Population : 60.4 million

```
<h3>Economic Profile:</h3>
```

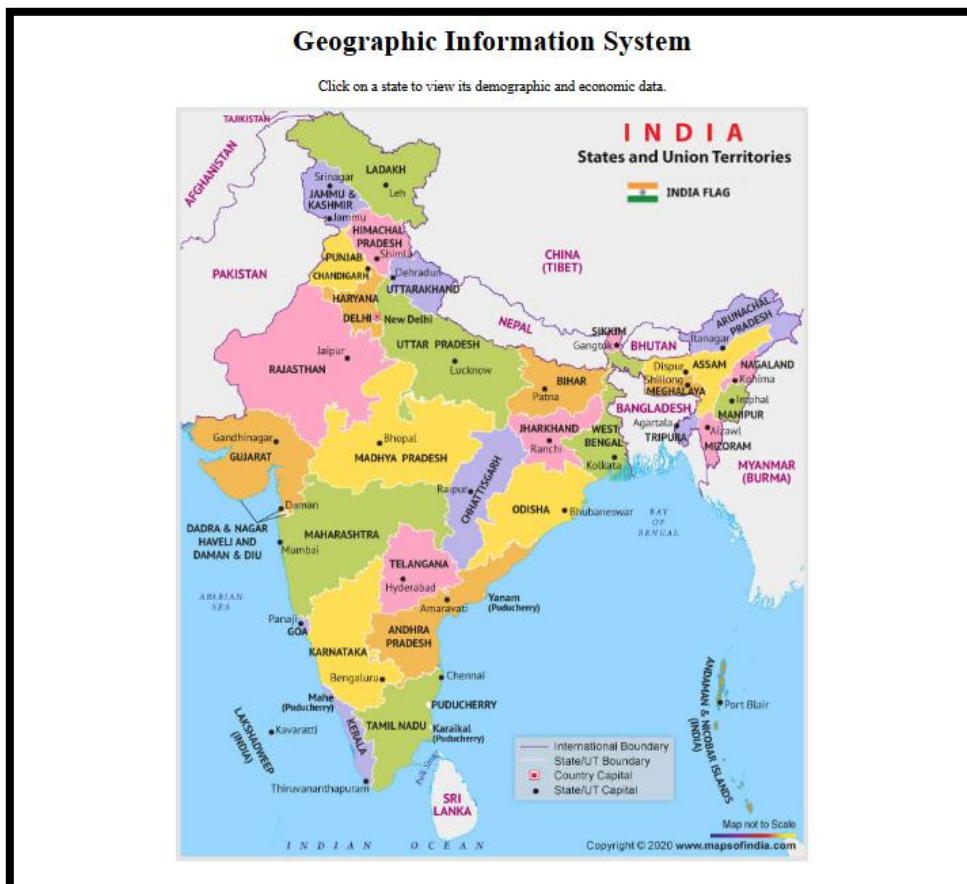
GSDP : ₹19 trillion (US\$210 billion) in 2023

```
</p>
```

```
</body>
```

```
</html>
```


Output :



Maharashtra

127.0.0.1:5500/maharashtra.html

Maharashtra




Demographic Profile:
Population : 112.37 million

Economic Profile:
GSDP : US\$339.85 billion in 2019-2020

Rajasthan

127.0.0.1:5500/rajasthan.html

Rajasthan




Demographic Profile:
Population: 68.5 million (2011 census).

Economic Profile:
GDP: ₹10.20 lakh crore (US\$120 billion).

Uttar Pradesh

127.0.0.1:5500/uttar%20pradesh.html

Uttar Pradesh




Demographic Profile:
Population : 240 million

Economic Profile:
GSDP : 25.48 lakh crore (US\$310 billion) in 2023-2024

Tamil Nadu

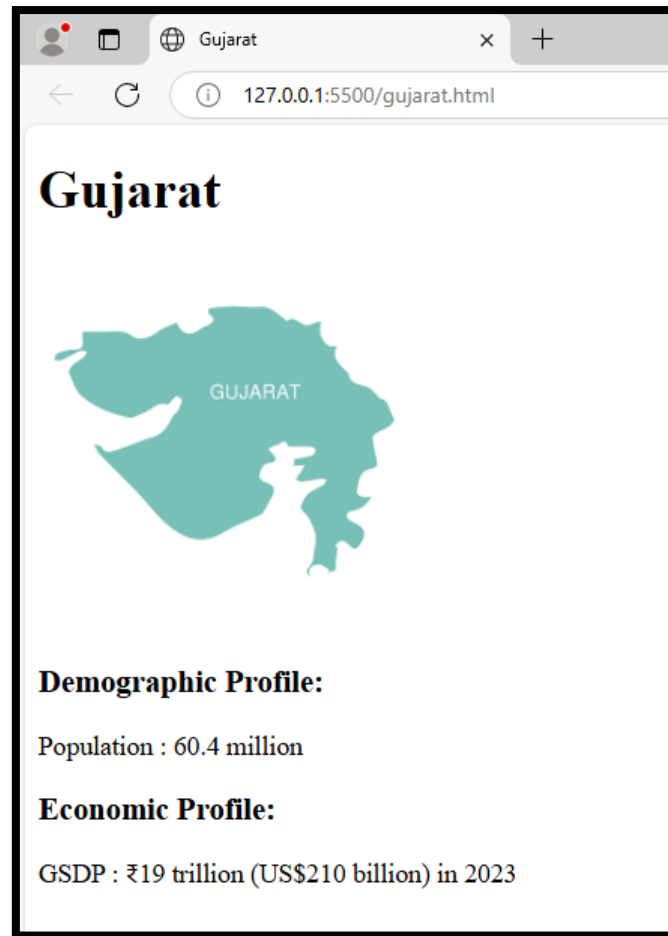
127.0.0.1:5500/tamil%20nadu.html

Tamil Nadu



Demographic Profile:
Population : 72 million

Economic Profile:
GSDP : ₹27.22 trillion (US\$310 billion)



Learning Outcome:

- Understand how to use HTML image maps to create interactive regions.
- Learn how to link web pages to specific geographic locations.
- Gain experience in integrating visual content with data representation.
- Enhance user interaction through clickable map features.