

MapMystery - Project Report



1. Introduction:

MapMystery is a web-based geography game where players guess the location by observing Google Street View. The game challenges the player's knowledge of global landmarks and geography.



2. Project Structure:

/MapMystery

- ├── index.html (Start screen)
- ├── game.html (Game screen)
- ├── style.css (Styling for the game)
- └── script.js (Game logic)



3. Technologies Used:

- HTML
- CSS
- JavaScript
- Google Maps API



4. Game Flow:

1. **Start Screen:**
 - Displays available locations and a "Start Game" button.
2. **Game Screen:**
 - Shows a Google Street View and provides buttons for location guesses.
3. **Result:**
 - Checks the player's guess and displays whether it was correct or not.



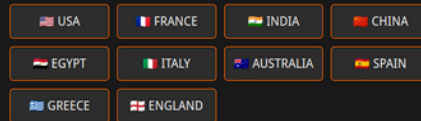
5. Screenshots:

Start Screen:

🌍 Welcome to MapMystery! 🌍

Guess the location by observing the map and entering your guess. Test your geography skills!

Available Locations:



Start Game

Game Screen:

1. Screen (on load): Shows the game interface with a random location loaded in Street View.

🌍 MapMystery 🌍

HINTS

USA

FRANCE

INDIA

CHINA

EGYPT



HINTS

ITALY

AUSTRALIA

SPAIN

GREECE

ENGLAND

New
Location

Take a guess...

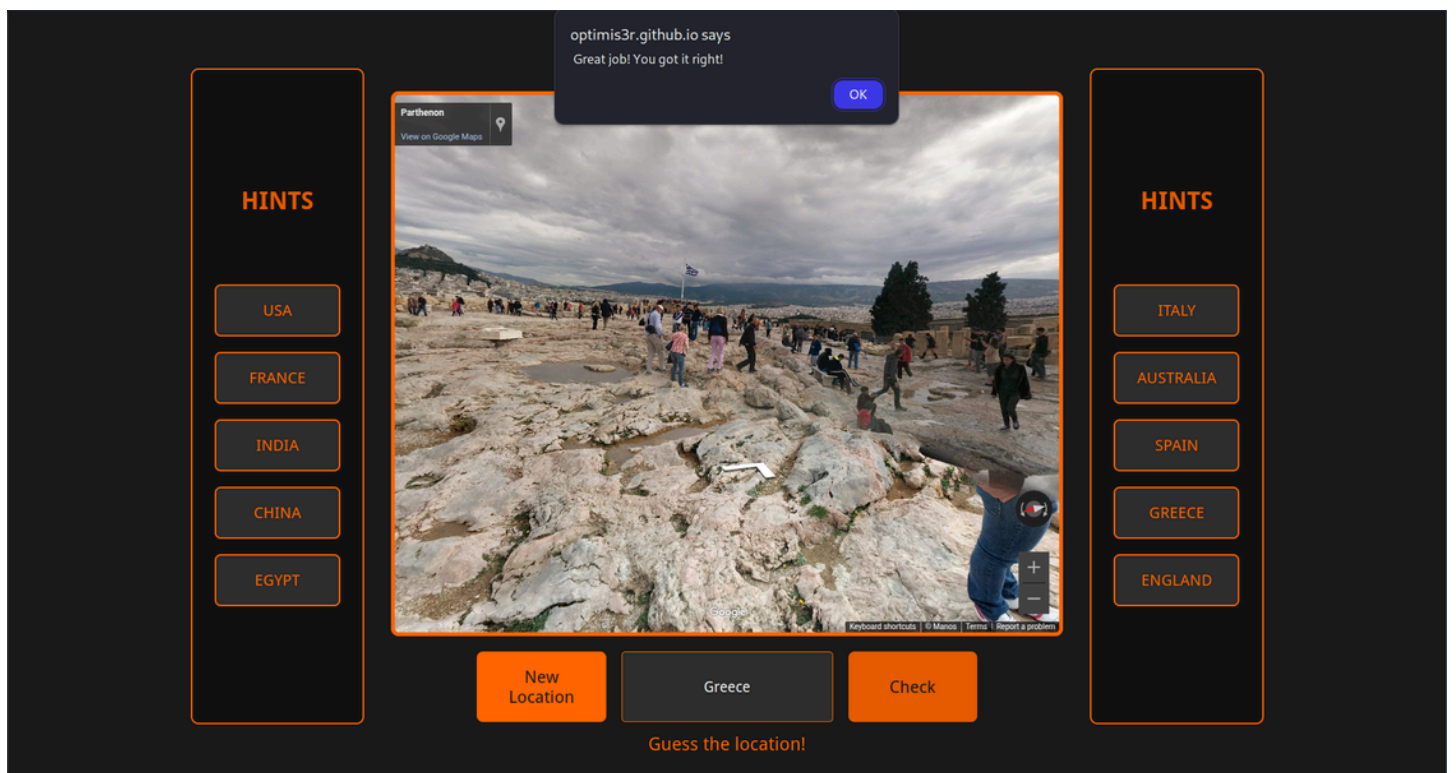
Check

Guess the location!

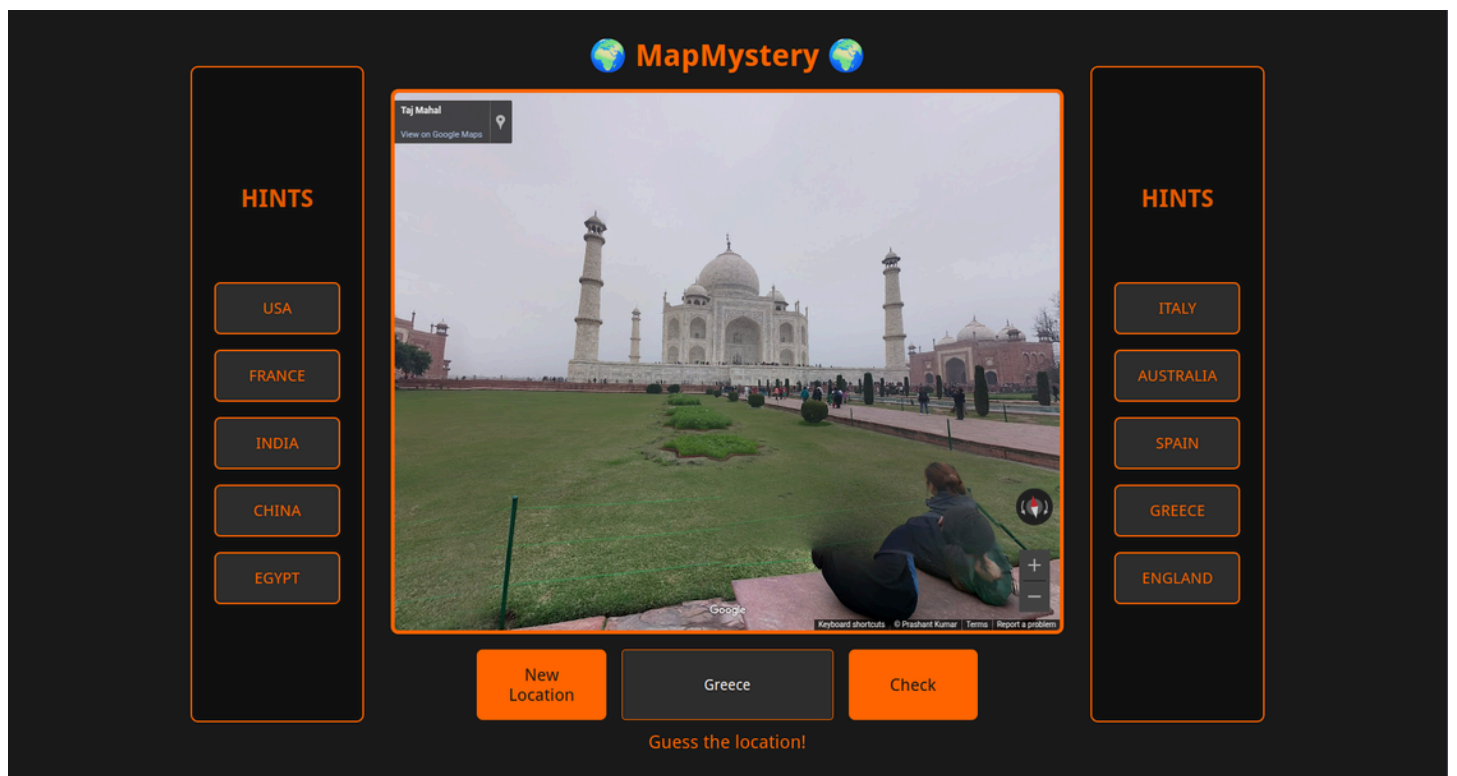
2. Screen (hover over the hints): Highlights the hint buttons when hovered, helping players get clues.



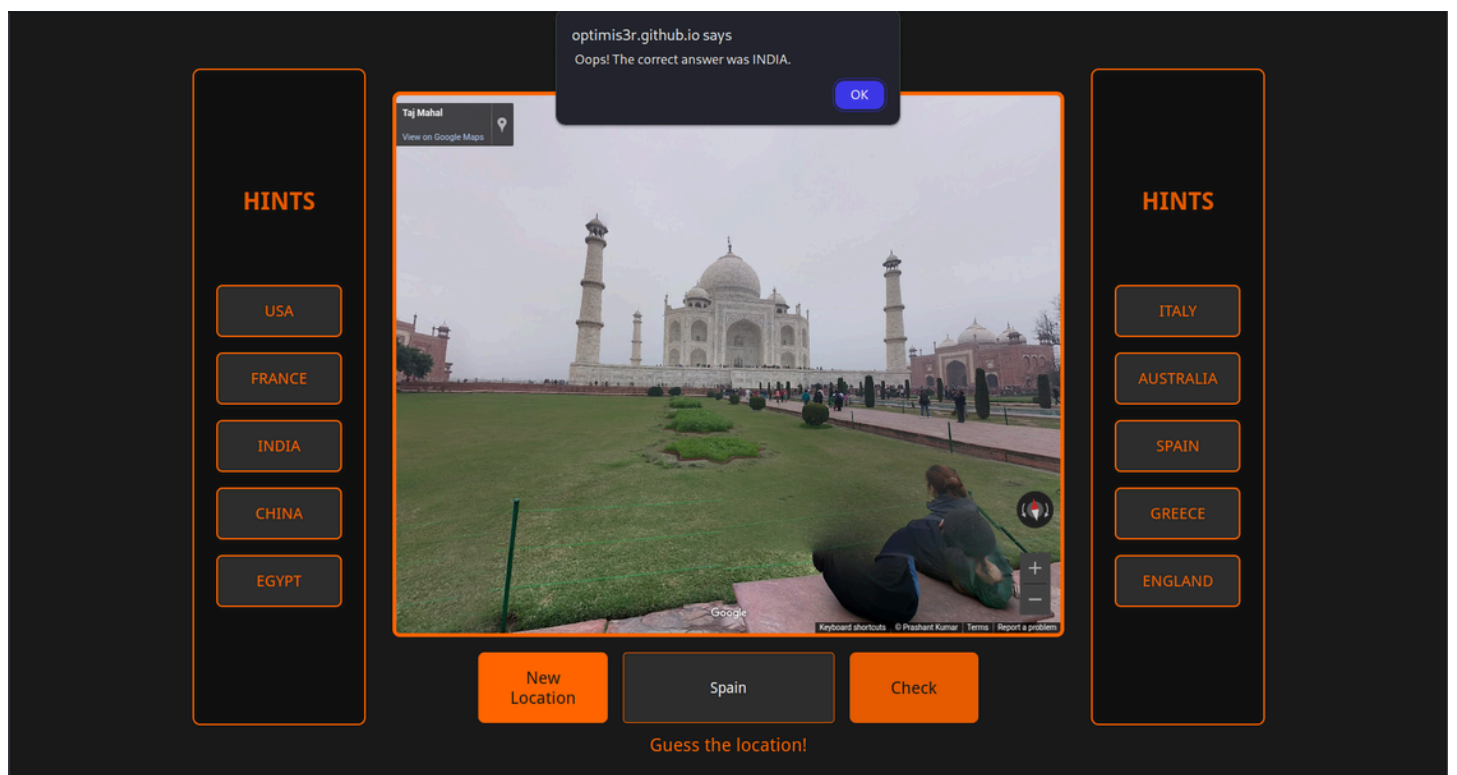
3. Screen (guessing correct answer – Greece): Displays a success message when the player guesses correctly.



4. Screen (on clicking New Location): Loads a new random location, resetting the guess input.



5. Screen (guessing incorrect answer): Shows an alert with the correct location when the player guesses wrong.



6. Codes:

1. index.html

```
<!DOCTYPE html>
<html lang="en">
```

```

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>MapMystery - Guide</title>
  <link rel="stylesheet" href="style.css">
</head>
<body class="guide-page">
  <div class="guide-container">
    <h1>🌍 Welcome to MapMystery! 🌍</h1>
    <p style="font-size: 16px;">Guess the location by observing the map and entering
your guess. Test your geography skills!</p>
    <h2>Available Locations:</h2>
    <!--All the available locations-->
    <ul class="location-list">
      <li>🇺🇸 USA</li>
      <li>🇫🇷 France</li>
      <li>🇮🇳 India</li>
      <li>🇨🇳 China</li>
      <li>🇪🇬 Egypt</li>
      <li>🇮🇹 Italy</li>
      <li>🇦🇺 Australia</li>
      <li>🇪🇸 Spain</li>
      <li>🇬🇷 Greece</li>
      <li>🇬🇧 England</li>
    </ul>
    <!--direct to game-->
    <button onclick="window.location.href='game.html'">Start Game</button>
  </div>
</body>
</html>

```

2. game.html

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>MapMystery - Guess the Location!</title>
  <link rel="stylesheet" href="style.css">

```

```
</head>
<body>
  <div class="game-container">

    <!--sidebar-->
    <div class="location-sidebar">
      <p>HINTS</p>
      <button>USA</button>
      <button>FRANCE</button>
      <button>INDIA</button>
      <button>CHINA</button>
      <button>EGYPT</button>
    </div>

    <!-- Game -->
    <div class="game-content">
      <h1>🌍 MapMystery 🌍</h1>
      <div class="image-container">
        <iframe id="mapFrame" src="about:blank"></iframe>
      </div>
      <div class="controls">
        <button id="displayRandom" onclick="displayLocation()">New Location</button>
        <input class="user-choice" id="userChoice" type="text" placeholder="Take a
          guess...">
        <button id="checkAnswer" onclick="checkUser()">Check</button>
      </div>
      <p id="locationDisplay">Guess the location!</p>
    </div>

    <!-- sidebar -->
    <div class="location-sidebar">
      <p>HINTS</p>
      <button>ITALY</button>
      <button>AUSTRALIA</button>
      <button>SPAIN</button>
      <button>GREECE</button>
      <button>ENGLAND</button>
    </div>
  </div>
  <script src="script.js"></script>
```

```
</body>
</html>
```

3. style.css

```
html, body {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
  font-family: Arial, sans-serif;
  color: #f5f5f5;
  background: #1a1a1a;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  width: 100%;
  overflow: hidden;
}
```

```
/* Intro Page */
```

```
.guide-container {
  display: flex;
  flex-direction: column;
  justify-content: center;
  align-items: center;
  height: 100vh;
  padding: 20px;
}
```

```
.guide-page .guide-container {
  text-align: center;
}
```

```
.guide-container button {
  padding: 15px 40px;
  margin-top: 20px;
  background: #ff6600;
  color: #1a1a1a;
  border: none;
  border-radius: 8px;
}
```



```
font-size: 1.3rem;
font-weight: bold;
cursor: pointer;
transition: background 0.2s ease;
}
```

```
.guide-container button:hover {
  background: #e65c00;
}
```

```
.location-list {
  list-style: none;
  padding: 0;
  margin: 20px 0;
  display: grid;
  grid-template-columns: repeat(auto-fit, minmax(120px, 1fr));
  gap: 10px;
  max-width: 600px;
}
```

```
.location-list li {
  background: #2d2d2d;
  padding: 12px;
  border: 1px solid #ff6600;
  border-radius: 5px;
  text-transform: uppercase;
  cursor: default;
}
```

/* Sidebars */

```
.location-sidebar {
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
  gap: 20px;
  width: 250px;
  height: 90%;
  padding: 20px;
  background: #131313;
```

```
border: 1px solid #ff6600;
```



```
border: 2px solid #ff6600;
border-radius: 10px;
}
```

```
.location-sidebar p {
  color: #e65c00;
  font-size: 2rem;
  font-weight: bolder;
  margin: 0;
  margin-bottom: 70px;
  text-align: center;
  width: 100%;
  cursor: default;
}
```

```
.location-sidebar button {
  width: 90%;
  padding: 20px;
  background: #2d2d2d;
  border: 2px solid #ff6600;
  border-radius: 8px;
  color: #ff6600;
  font-size: 1.3rem;
  text-transform: uppercase;
  cursor: pointer;
  transition: background 0.2s;
}
```

```
.location-sidebar button:hover {
  background: #ff6600;
  color: #1a1a1a;
}
```

```
/* Game */
```

```
.game-container {
  display: flex;
  flex-direction: row;
  justify-content: center;
  align-items: center;
  width: 95%;
```

```
    max-width: 1400px;
    height: 90vh;
    gap: 40px;
}
```

```
.game-content {
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: center;
    width: 85%;
    max-width: 900px;
}
```

```
.image-container {
    width: 100%;
    height: 70vh;
    border: 5px solid #ff6600;
    border-radius: 10px;
    overflow: hidden;
}
```

```
.controls {
    display: flex;
    justify-content: center;
    gap: 20px;
    margin-top: 20px;
}
```

```
.controls button {
    padding: 20px 40px;
    font-size: 1.4rem;
    background: #ff6600;
    width: 25%;
    color: #1a1a1a;
    border: none;
    border-radius: 8px;
    cursor: pointer;
    transition: background 0.2s ease;
}
```

```
.controls button:hover {  
    background: #e65c00;  
}
```

```
h1 {  
    color: #ff6600;  
    margin-bottom: 20px;  
    font-size: 2.5rem;  
    text-align: center;  
}
```

```
iframe {  
    width: 100%;  
    height: 100%;  
    border: none;  
}
```

```
.user-choice {  
    padding: 12px;  
    border: 1px solid #ff6600;  
    background: #2d2d2d;  
    color: #f5f5f5;  
    border-radius: 5px;  
    font-size: 1.2rem;  
    width: 250px;  
    text-align: center;  
}
```

```
#locationDisplay {  
    margin-top: 15px;  
    font-size: 1.5rem;  
    color: #ff6600;  
    text-align: center;  
    cursor: default;  
}
```

4. script.js

```
// Available locations  
let locations = {  
    ,
```

t

"usa": "https://www.google.com/maps/embed?
pb=!4v1741588914108!6m8!1m7!1sCAoSLEFGMVFcFBJOWZ6V2trSmN3cjVld3pjb1B1V05
SYkRWWVFvczISQkZ2eVRU!2m2!1d40.68892551841514!2d-
74.044597866788!3f321.0146464135345!4f10.605047391156447!5f0.7820865974627469
&output=embed",

"france": "https://www.google.com/maps/embed?
pb=!4v1741621235051!6m8!1m7!1si81tcbzXfvi0BA-P-
oOkxw!2m2!1d48.85894927283069!2d2.293408033354338!3f81.0603361625299!4f-
13.65869531329409!5f0.45869288373407957&output=embed",

"india": "https://www.google.com/maps/embed?
pb=!4v1741621360808!6m8!1m7!1sCAoSFOJSE0wb2dLRUIDQWdJQ0VOZVRBNWdF!2m
2!1d27.17395398035674!2d78.04186246250939!3f29.513024327743757!4f7.295353658753
115!5f0.7820865974627469&output=embed",

"china": "https://www.google.com/maps/embed?
pb=!4v1741621570873!6m8!1m7!1sCAoSLEFGMVFcE03ULZBeHJVSWpLbFlKMTBmY293N
Wszck1ocmtuTXgyUG9RQlRp!2m2!1d40.44279717590992!2d116.5638617730259!3f258.48
99626486108!4f-5.044432245495187!5f0.7820865974627469&output=embed",

"egypt": "https://www.google.com/maps/embed?
pb=!4v1741621706252!6m8!1m7!1sCAoSLEFGMVFcE9FU1dkNTVKNjZBUxpSSmJmUzk5a
kZsOERhYkFmNnU4dFAxeUV!2m2!1d29.97720944573853!2d31.13473007216287!3f240.1
6192043646478!4f-21.343971017328514!5f0.7820865974627469&output=embed",

"italy": "https://www.google.com/maps/embed?
pb=!4v1742400890278!6m8!1m7!1sriOA94KRZ7H3mESWpynZrw!2m2!1d43.723022796313
28!2d10.39756748539553!3f276.5695816395664!4f6.607448251335683!5f0.78208659746
27469&output=embed",

"australia": "https://www.google.com/maps/embed?
pb=!4v1742401076032!6m8!1m7!1sCAoSLEFGMVFcE1rcOMtZ0ctc1A5UzZsYWdRQUYyO
TREGRRrOFBrc1NMY1ZQbDFa!2m2!1d-
33.85517872151119!2d151.2156623865488!3f87.07062579379388!4f-
9.472164207166756!5f0.40000000000000002&output=embed",

"spain": "https://www.google.com/maps/embed?
pb=!4v1742401267929!6m8!1m7!1sPZHtUAXyoiOGZfcqXNxcOw!2m2!1d41.404087117312!2
d2.174993059416575!3f292.75696959475044!4f-
0.8848347258998501!5f0.7820865974627469&output=embed",

"greece": "https://www.google.com/maps/embed?
pb=!4v1742401535452!6m8!1m7!1sCAoSLEFGMVFcE9BSlNwWDZGSkFxMVZxTnRsbm5q
MEU4VjVWN24xUTdsYTJ4dVNm!2m2!1d37.97176500506048!2d23.72710384436539!3f10
3.1823200370201!4f-5.195967656492186!5f0.517937765334858&output=embed",

```
"england": "https://www.google.com/maps/embed?pb=!4v1742405287990!6m8!1m7!1sVBnrlmeoNKPv-TFzV2uGkg!2m2!1d51.17891902587559!2d-1.82625789743674!3f85.6846033067922!4f0.29636903873674214!5f0.7820865974627469&output=embed"
```

```
}
```

```
};
```

```
let currentLocation = null;
```

```
// Select Random Location
```

```
function getRandomLocation() {  
  const keys = Object.keys(locations);  
  const randomKey = keys[Math.floor(Math.random() * keys.length)];  
  return { key: randomKey, url: locations[randomKey] };  
}
```

```
// Reset User's Input
```

```
function resetUserInput() {  
  document.getElementById("userChoice").value = ""; // Clear the input field  
}
```

```
// Display Location
```

```
function displayLocation() {  
  currentLocation = getRandomLocation();  
  document.getElementById("mapFrame").src = currentLocation.url;  
  resetUserInput(); // Reset the input field when a new location is displayed  
}
```

```
// Verify User's Answer
```

```
function checkUser() {  
  const userInput = document.getElementById("userChoice").value.trim().toLowerCase();  
  alert(correctuserInput === currentLocation.key ? "Great job! You got it right!" : `Oops! The  
answer was ${currentLocation.key.toUpperCase()}.`);  
  resetUserInput(); // Reset the input field after checking the answer  
}
```

```
// Load a location on boot of page
```

```
document.addEventListener("DOMContentLoaded", () => {  
  .. displayLocation();  
});
```

```
});
```

7. Code Overview:

- **index.html:** Handles the game introduction and navigation.
- **game.html:** Contains the game interface, hint buttons, and location display.
- **style.css:** Provides styling, ensuring a clean and responsive layout.
- **script.js:** Contains game logic, including random location generation, answer checking, and map loading.

8. Conclusion:

MapMystery is a simple yet engaging game that combines learning and entertainment. The use of the Google Maps API brings real-world exploration into the game, making each round a new adventure.