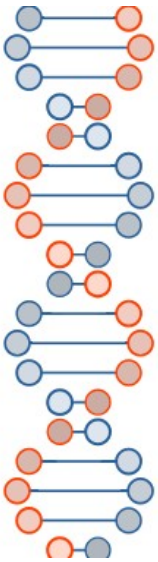
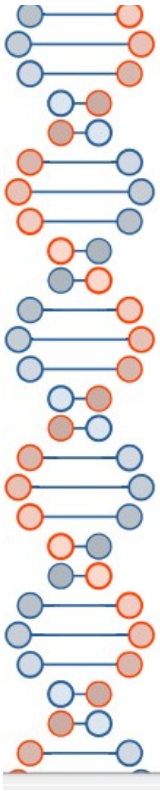
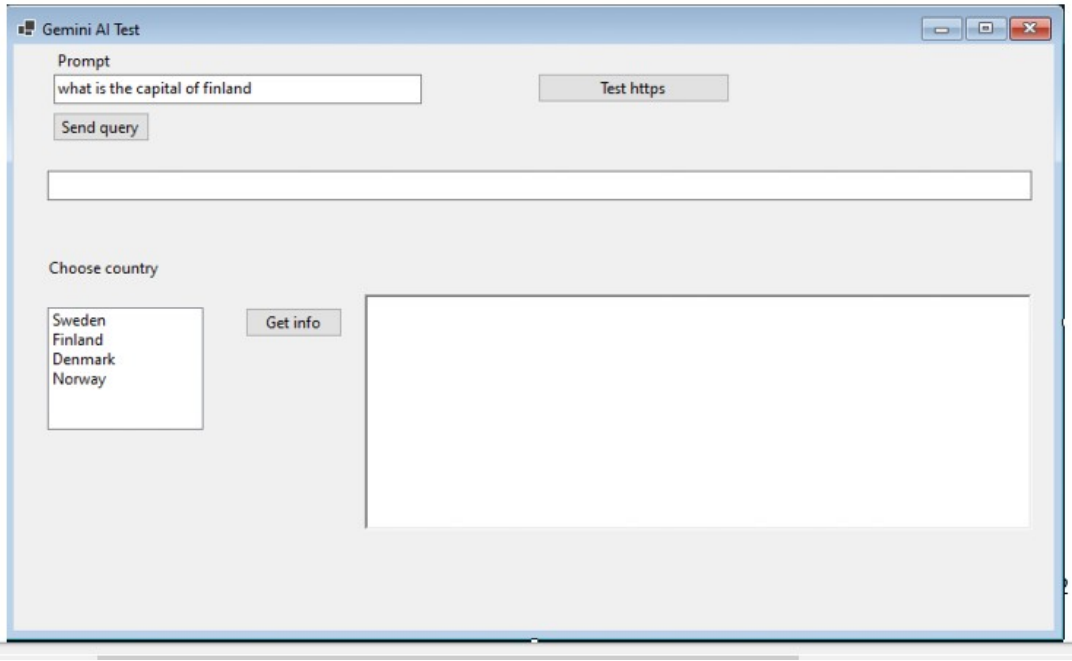


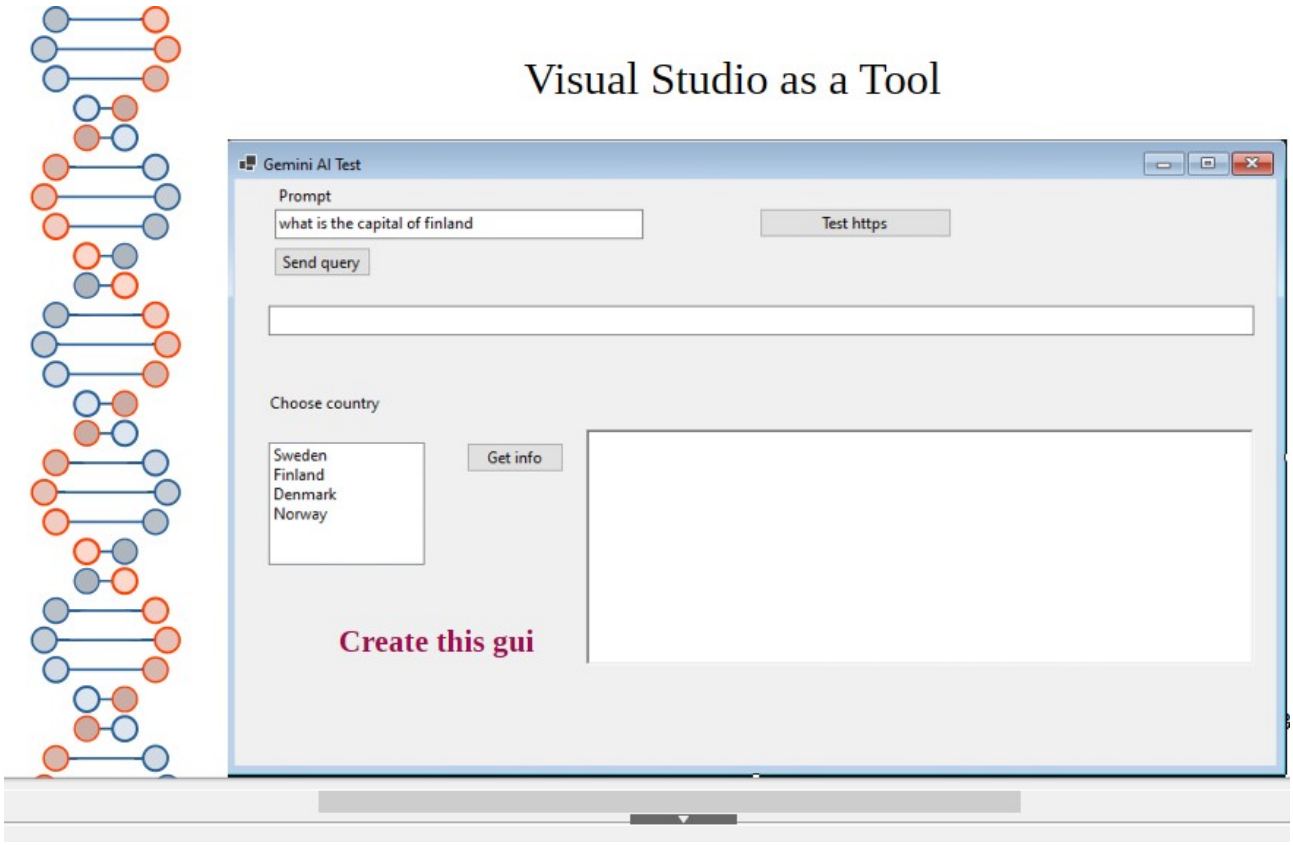
Use free Gemini AI API

Create own client app that uses AI



Visual Studio as a Tool





Codes

1)

```
using System;
using System.Net.Http;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using Newtonsoft.Json; // You'd add this via NuGet for JSON
serialization/deserialization
```

2)

```
  private const string GeminiApiKey = "xxxxxxxxxxxxxxxxx";
// Replace with your actual API key
        private const string GeminiApiUrl =
"https://generativelanguage.googleapis.com/v1beta/models/gemini-2.0-
flash:generateContent?key=" + GeminiApiKey;
```

3)

```
 private async void button1_Click(object sender, EventArgs e)
        {
            label1.Text = GeminiApiUrl;
            string userInput = inputTextBox.Text;
            if (string.IsNullOrWhiteSpace(userInput))
            {
                MessageBox.Show("Please enter some text.");
                return;
            }
            try
            {
                using (HttpClient client = new HttpClient())
                {
                    var requestBody = new
                    {
                        contents = new[]
                        {
                        new
                        {
                            parts = new[]
                            {
                                new { text = userInput }
                            }
                        }
                    }
                    };

                    string jsonContent = JsonConvert.SerializeObject(requestBody);
                    HttpContent httpContent = new StringContent(jsonContent,
Encoding.UTF8, "application/json");

                    HttpResponseMessage response = await
client.PostAsync(GeminiApiUrl, httpContent);
                    response.EnsureSuccessStatusCode();

                    string responseBody = await response.Content.ReadAsStringAsync();
                    dynamic geminiResponse =
JsonConvert.DeserializeObject(responseBody);


                    string generatedText =
geminiResponse.candidates[0].content.parts[0].text;
                    outputTextBox.Text = generatedText;
                }
            }
            catch (HttpRequestException httpEx)
            {
                outputTextBox.Text = $"Error: {httpEx.Message}. Check your API key";
            }
            catch (Exception ex)
            {
                outputTextBox.Text = $"An unexpected error occurred: {ex.Message}";
            }
            finally
            {

            }
        }
```

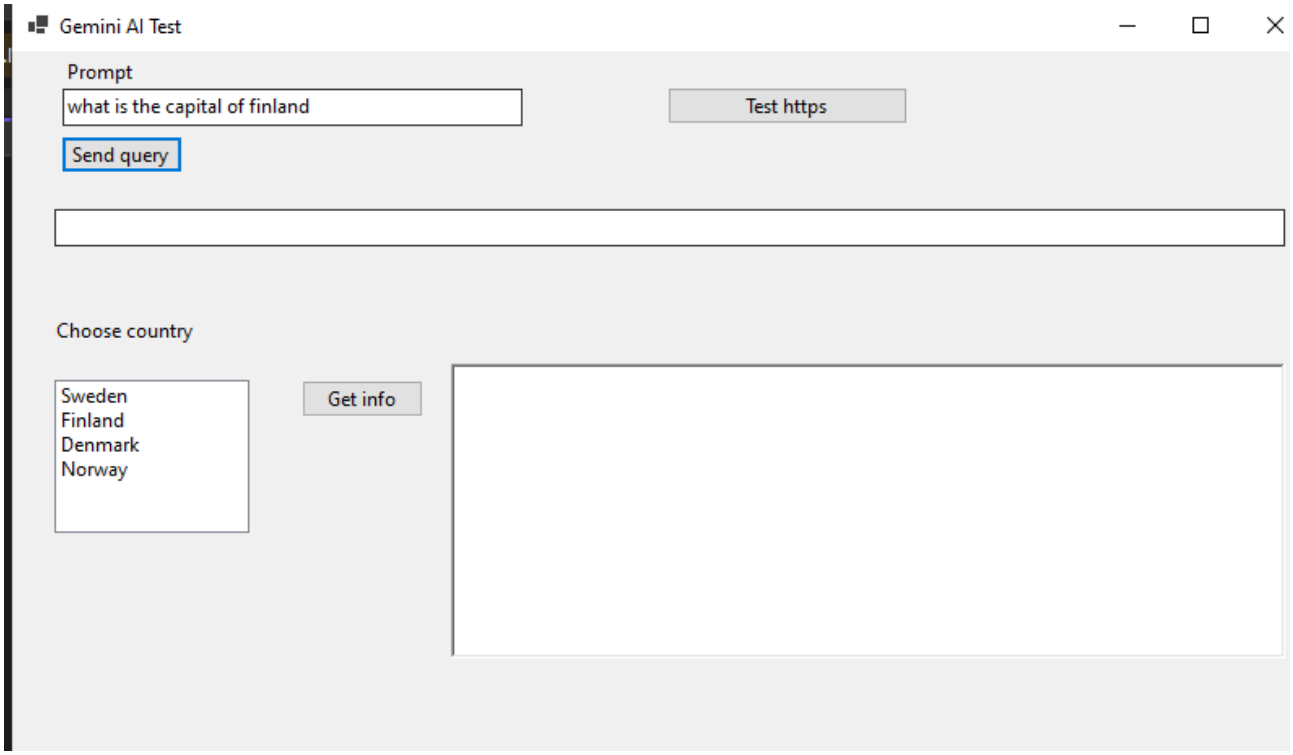
4)

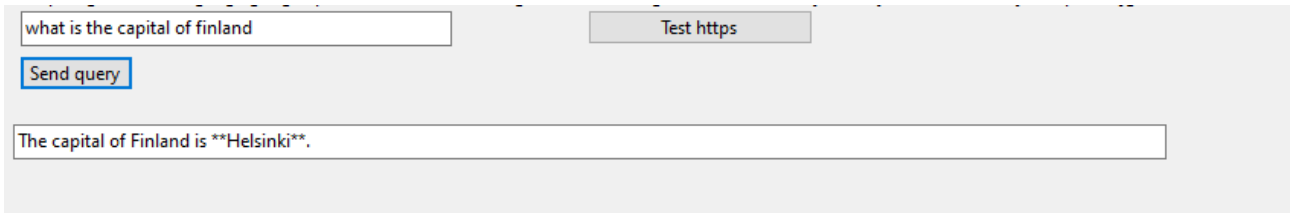
```
        private async void button2_Click(object sender, EventArgs e)
        {
            using (HttpClient client = new HttpClient())
            {
                try
                {
                    string url = "https://www.google.com";  // or your API URL
                    HttpResponseMessage response = await client.GetAsync(url);

                    if (response.IsSuccessStatusCode)
                    {
                        MessageBox.Show("HTTP connection successful!");
                    }
                    else
                    {
                        MessageBox.Show("Connected, but error: " +
response.StatusCode);
                    }
                }
                catch (Exception ex)
                {
                    MessageBox.Show("Connection failed:\n" + ex.Message);
                }
            }
        }
```

5)

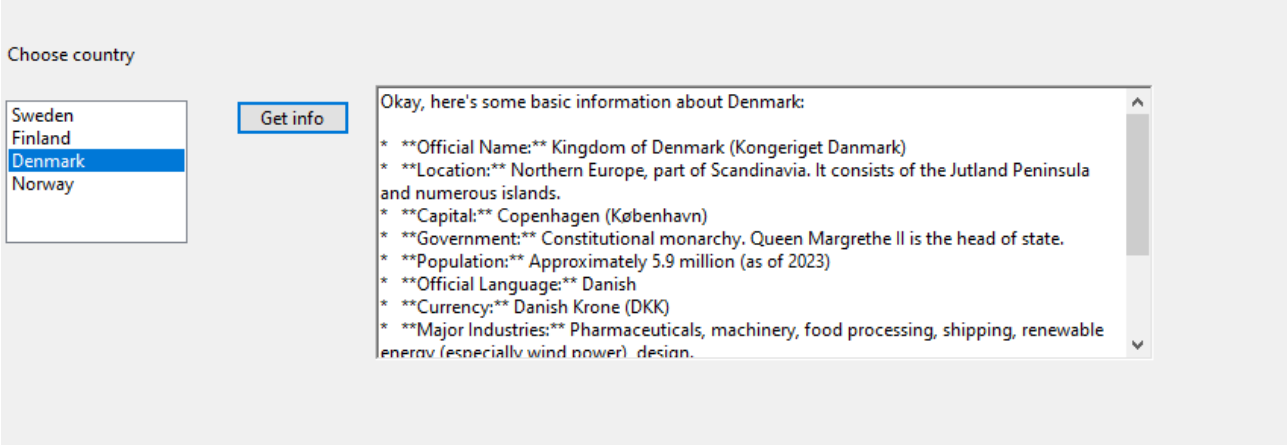
```
 String query1 = "";
        private async void button3_Click(object sender, EventArgs e)
        {

            query1 += "Give basic info about this country: " +
listBox1.SelectedItem.ToString();
            //label2.Text = query1;

            string userInput = query1;

            try
            {
                using (HttpClient client = new HttpClient())
                {
                    var requestBody = new
                    {
                        contents = new[]
                        {
                        new
                        {
                            parts = new[]
                            {
                                new { text = userInput }
                            }
                        }
                    }
                    };

                    string jsonContent = JsonConvert.SerializeObject(requestBody);
                    HttpContent httpContent = new StringContent(jsonContent,
Encoding.UTF8, "application/json");

                    HttpResponseMessage response = await
client.PostAsync(GeminiApiUrl, httpContent);
                    response.EnsureSuccessStatusCode(); // Throws an exception for
HTTP error codes

                    string responseBody = await response.Content.ReadAsStringAsync();
                    dynamic geminiResponse =
JsonConvert.DeserializeObject(responseBody);

                    // Extracting the text from the response - adjust based on actual
API response structure
                    string generatedText =
geminiResponse.candidates[0].content.parts[0].text;
                   richTextBox1.Text = generatedText;
                }
            }
            catch (HttpRequestException httpEx)
            {
                label2.Text = $"Error: {httpEx.Message}. Check your API key and
network connection.";
            }
            catch (Exception ex)
            {
               label2.Text = $"An unexpected error occurred: {ex.Message}";
            }
            finally
            {
                // submitButton.Enabled = true;
            }
        }
```

Try


Gemini AI Test
Prompt
what is the capital of finland
Test https
Send query
Choose country
Sweden
Finland
Denmark
Norway
Get info

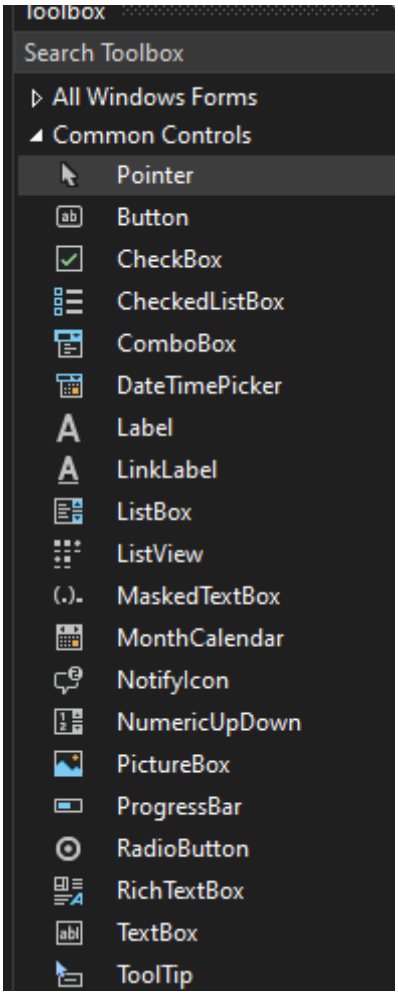

what is the capital of finland
Test https
Send query
The capital of Finland is **Helsinki**.

And



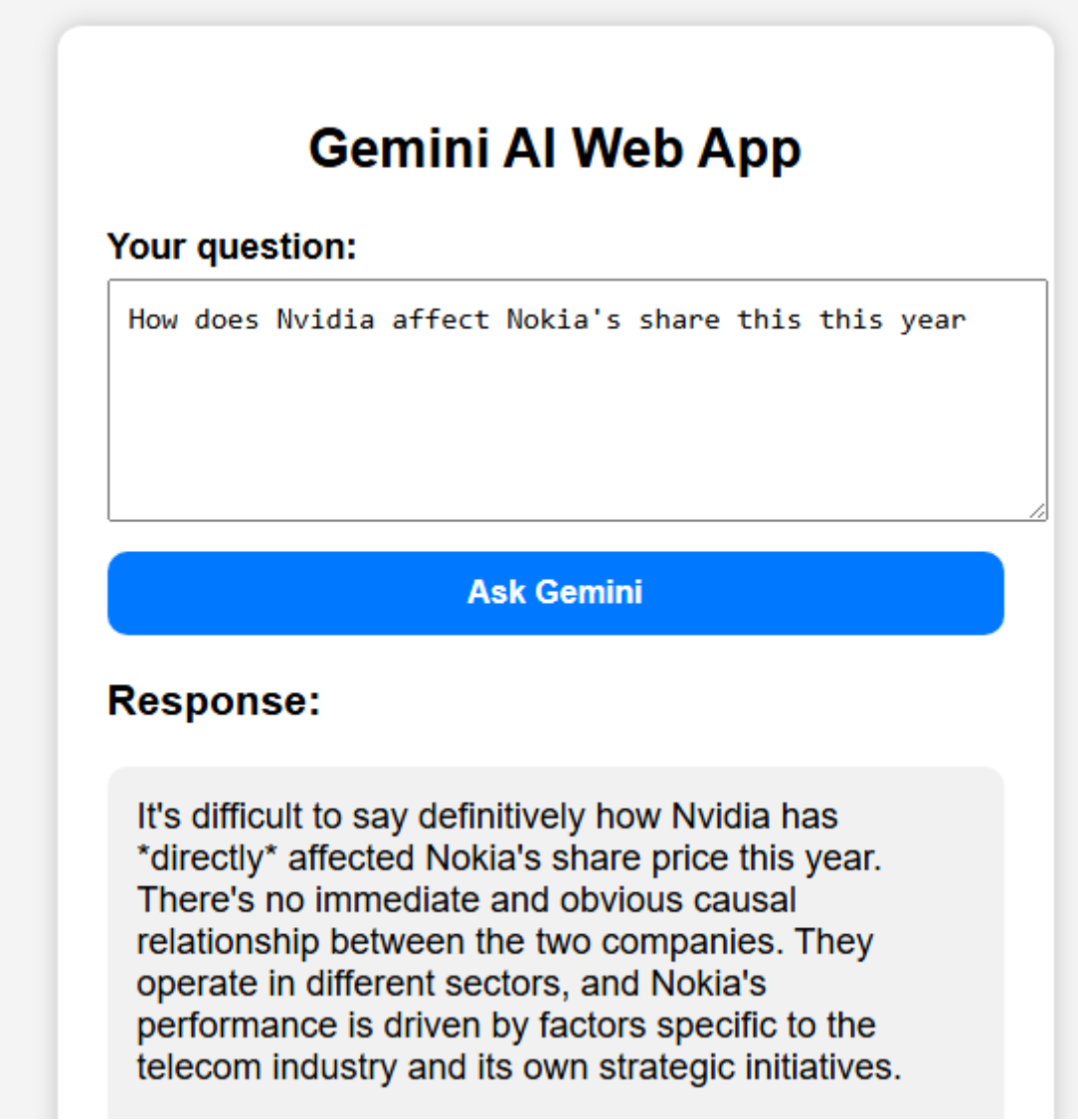
So, you can create a versatile GUI that can be used to create the prompt and get back info from Gemini AI!!!

Some Windows Forms project gui options here:



Web APP test

Here is the app on a browser



It is easier to write the prompt and read answers when we have a proper UI.

Yes. code is here

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Gemini Web App</title>
<style>
body {
font-family: Arial, sans-serif;
background: #f4f4f4;
display: flex;
justify-content: center;
padding: 40px;
}

.container {
width: 450px;
background: #fff;
padding: 25px;
border-radius: 12px;
box-shadow: 0 0 12px rgba(0,0,0,0.2);
}

h2 { text-align: center; }

label {
font-weight: bold;
}

textarea {
width: 100%;
height: 100px;
padding: 10px;
margin-top: 5px;
resize: vertical;
font-size: 15px;
}

#responseBox {
margin-top: 20px;
```

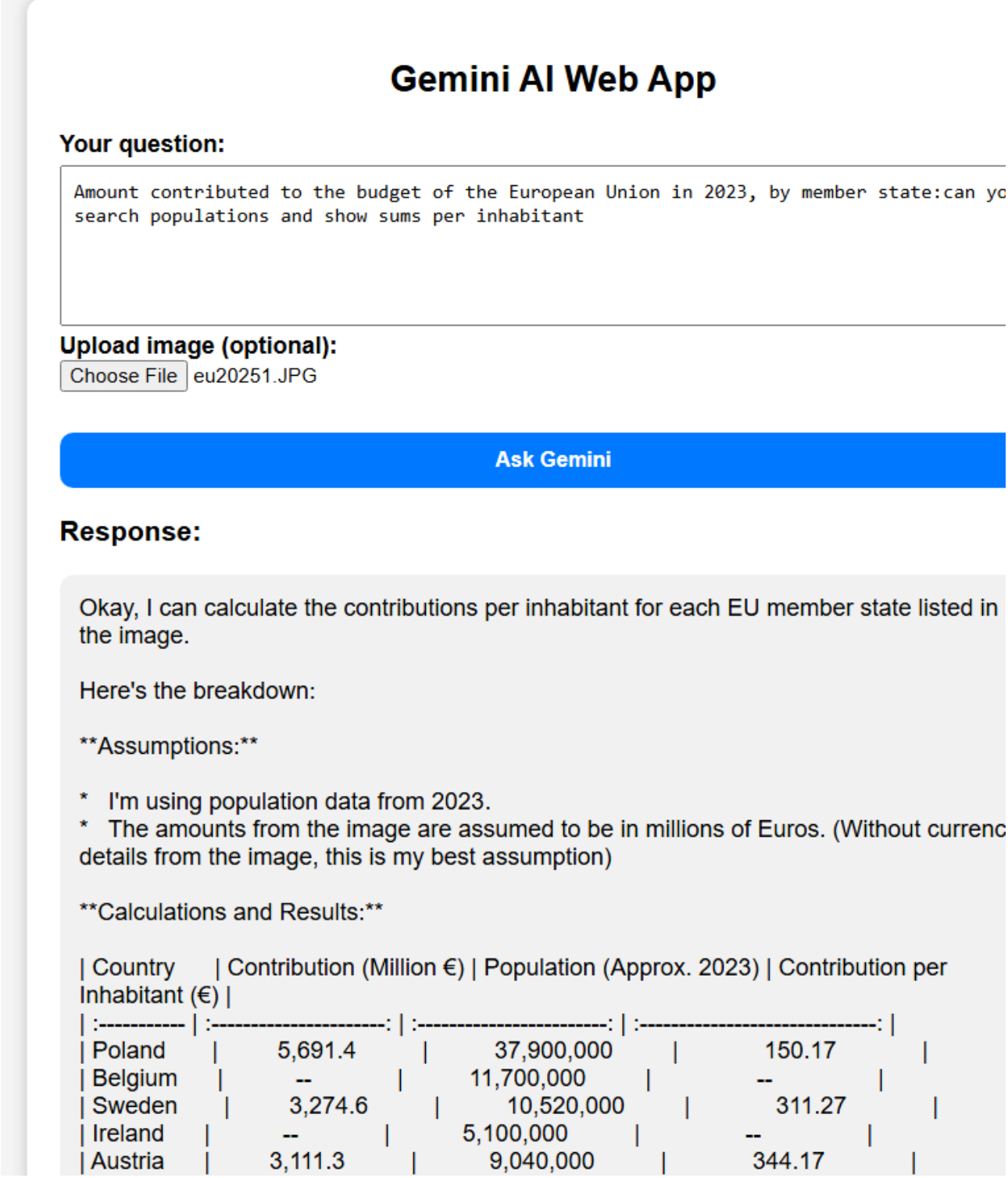
```
background: #f1f1f1;
padding: 15px;
border-radius: 10px;
min-height: 40px;
white-space: pre-wrap;
}

button {
margin-top: 10px;
width: 100%;
padding: 12px;
font-size: 16px;
font-weight: bold;
background: #0078ff;
color: #fff;
border: none;
border-radius: 10px;
cursor: pointer;
}

button:hover {
background: #005fcc;
}
</style>
</head>
<body>

<div class="container">
<h2>Gemini AI Web App</h2>

<label>Your question:</label>
<textarea id="userInput" placeholder="Type your query here..."></textarea>

<button onclick="sendToGemini()">Ask Gemini</button>

<h3>Response:</h3>
<div id="responseBox">Waiting...</div>
</div>

<script>
const API_KEY = "XXXXXXXXXXXXXXXX";

async function sendToGemini() {
```

```
const userText = document.getElementById("userInput").value;
const responseBox = document.getElementById("responseBox");

responseBox.textContent = "Thinking...";

const url = `https://generativelanguage.googleapis.com/v1beta/models/gemini-2.0-
flash:generateContent?key=${API_KEY}`;

const body = {
contents: [{
parts: [{ text: userText }]
}]
};

try {
const result = await fetch(url, {
method: "POST",
headers: { "Content-Type": "application/json" },
body: JSON.stringify(body)
});

const data = await result.json();

if (data.candidates) {
responseBox.textContent = data.candidates[0].content.parts[0].text;
} else {
responseBox.textContent = "Error: " + JSON.stringify(data);
}
} catch (err) {
responseBox.textContent = "Request failed:\n" + err;
}
}

</script>

</body>
</html>
```

The main problem is here the visibility of API key!

Another test using web

Here we give an image that AI uses to get answers:



Gemini AI Web App

Your question:

Amount contributed to the budget of the European Union in 2023, by member state:can yo
search populations and show sums per inhabitant

Upload image (optional):

Choose File eu20251.JPG

Ask Gemini

Response:

Okay, I can calculate the contributions per inhabitant for each EU member state listed in the image.

Here's the breakdown:

Assumptions:

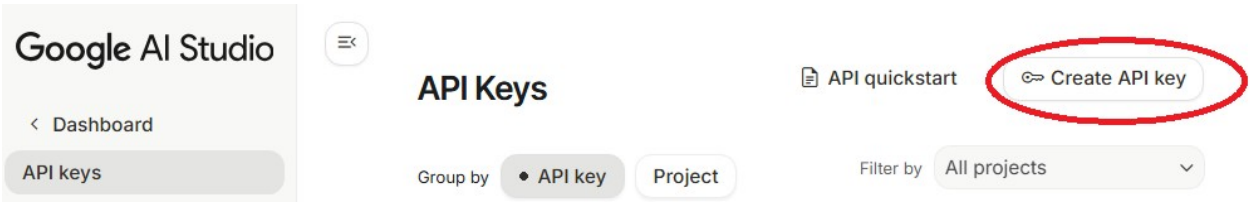
* I'm using population data from 2023.
* The amounts from the image are assumed to be in millions of Euros. (Without currenc details from the image, this is my best assumption)

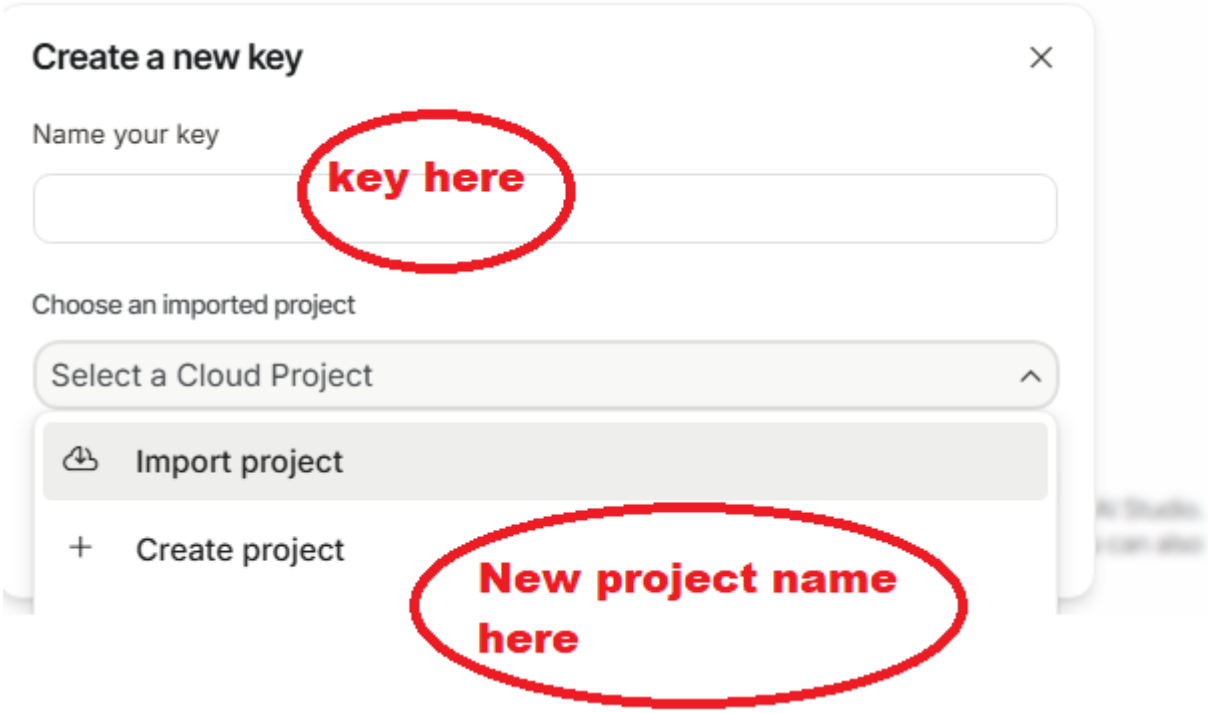
Calculations and Results:

Country	Contribution (Million €)	Population (Approx. 2023)	Contribution per Inhabitant (€)
Poland	5,691.4	37,900,000	150.17
Belgium	--	11,700,000	--
Sweden	3,274.6	10,520,000	311.27
Ireland	--	5,100,000	--
Austria	3,111.3	9,040,000	344.17

Image is here

How to get free Gemini Api Key





Do not show your API Key!!!

There are some choices to keep it secret (e.g. serverside solutions)