Authentication

Every request should contain ‘TOKEN’ (a secret key) in headers for authentication.

API-1: Face Match

Endpoint - *http://<address:port>/api/facematch*
Use Case: Match images of human faces and tell if two or more images contain the same person.
Receives: Request payload contains a list of images (in base64) as **‘images’**.
Convention: Treats first image of the list as source image and rest as target. Meaning Matches all images with the first image and returns the result for n-1 target images.

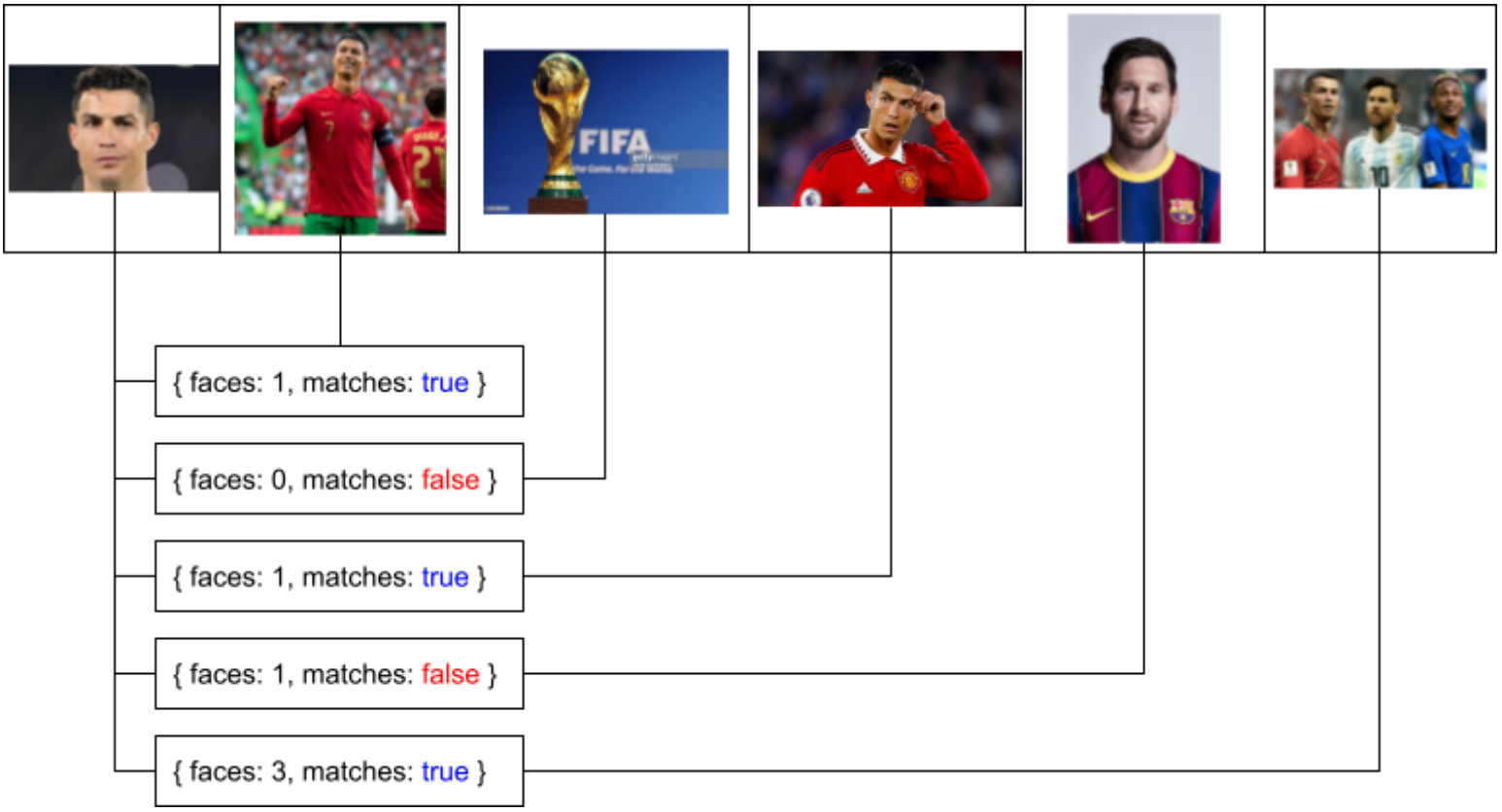
Request:

```
const payload = {
      images: base64Images
    };
    const config = {
      headers: {
        TOKEN: token,
      }
    };
    axios.post(apiUrl, payload, config)
      .then((response) => {
        console.log('Response:', response.data);
      })
      .catch((error) => {
        console.error('Error:', error);
      });
```

Response:

```
Response: {
  ok: true,
  results: [
    { faces: 1, matches: true },
    { faces: 0, matches: false },
    { faces: 1, matches: true },
    { faces: 1, matches: false },
    { faces: 3, matches: true }
  ]
}
```

Visualise



API-2: Speech to Text

Endpoint - *http://<address:port>/api/speechtotext*
Use Case: Converts speech to text.
Receives: Request payload contains a base64 wav audio file inside **'audio''**.
Convention: audio file will be trimmed down to 30 seconds in case of long audio.

Request:

```
const payload = {
      audio: base64Audio
    };
    const config = {
      headers: {
        TOKEN: token,
      }
    };

    axios.post(apiUrl, payload, config)
      .then((response) => {
        console.log('Response:', response.data);
      })
      .catch((error) => {
        console.error('Error:', error);
      });
```

Response:

```
Response: {
  lan: 'en',
  ok: true,
  text: "And even though this is just speech , this will be kind of fun. I would love to be on cloud nine as a one trick pony that wouldn't hit a fly. I'd be like a fish out of water and there's still is a fiddle to be under the weather. Let's save this off. Let's save it as a wave."
}
```

API-3 Text Similarity

Endpoint - *http://<address:port>/api/textsimilarity*
Use Case: Matches texts and finds similarity in context.
Receives: Request payload contains a list of plain strings as **texts**.
Convention: Treats first text of the list as source text and rest as target. Meaning matches all text with the first text and returns the result for n-1 target. Similarly is given a number between 0 and 1. The closer the score to 1 the more two texts are similar.

Request:

```
const payload = {
  texts: texts
};
const config = {
  headers: {
    TOKEN: token,
  }
};
axios.post(apiUrl, payload, config)
  .then((response) => {
    console.log('Response:', response.data);
  })
  .catch((error) => {
    console.error('Error:', error);
  });
```

Response:

```
Response: {
  ok: true,
  result: [
    0.88, 0.82, 0.73,
    0.65,  0.8,    1,
    0.36, 0.15, 0.03,
    0.53
  ]
}
```

Source text:
The greenhouse effect refers to the natural process by which certain gases in the Earth's atmosphere, such as carbon dioxide and methane, trap heat from the sun. This trapped heat warms the planet, making it habitable. However, human activities, such as burning fossil fuels, have increased the concentration of these gases, leading to an enhanced greenhouse effect and global warming.

Text	Score
The greenhouse effect works like this: the sun's energy reaches Earth in the form of sunlight. The Earth's surface absorbs some of this energy and heats up. As the Earth's surface radiates heat back into the atmosphere, greenhouse gases trap a portion of this heat, preventing it from escaping into space. This trapped heat warms the atmosphere and the planet overall.	0.88
The natural greenhouse effect is essential for maintaining the Earth's temperature at a suitable level for life. However, the problem arises when human activities, such as burning fossil fuels and deforestation, release excessive greenhouse gases into the atmosphere. This enhanced greenhouse effect leads to global warming, causing changes in climate patterns that can have negative impacts on ecosystems, sea levels, and weather conditions.	0.82
No, not all greenhouse gases are caused by humans. While human activities do contribute significantly to the increase in greenhouse gas concentrations, natural processes also release these gases. For example, volcanoes release carbon dioxide, and wetlands emit methane. However, the rapid increase in greenhouse gases observed in recent decades is primarily attributed to human activities.	0.73
Reversing the greenhouse effect entirely is a complex challenge. While it's not possible to completely eliminate the natural greenhouse effect, we can take actions to mitigate the enhanced greenhouse effect caused by human activities. This involves reducing greenhouse gas emissions through measures like transitioning to renewable energy sources, improving energy efficiency, and implementing sustainable land-use practices.	0.65
The enhanced greenhouse effect is closely linked to climate change. The excess greenhouse gases trap more heat than normal, causing the Earth's average temperature to rise. This global warming leads to shifts in climate patterns, including more frequent and severe weather events, melting ice, and rising sea levels. So, the greenhouse effect is a key factor contributing to the broader issue of climate change.	0.80
The greenhouse effect refers to the natural process by which certain gases in the Earth's atmosphere, such as carbon dioxide and methane, trap heat from the sun. This trapped heat warms the planet, making it habitable. However, human activities, such as burning fossil fuels, have increased the concentration of these gases, leading to an enhanced greenhouse effect and global warming.	1.00
This gas is very harmful for nature	0.36
I love Batman	0.15
Winter feels cold	0.03
The greenhouse effect, my dear readers, is a phenomenon that can only be attributed to the divine hand of God. It is certainly not a product of human activities or a natural occurrence. This celestial occurrence is a testament to the grandeur of God's creation, for He alone possesses the power to craft such a wondrous mechanism. In fact, the greenhouse effect should be celebrated as a divine blessing upon our Earth. It serves as a heavenly blanket, enveloping our planet with warmth and security, much like a comforting embrace from above. The benevolent greenhouse effect fosters life and abundance, ensuring that our world flourishes with lush vegetation and thriving ecosystems. So, let us all raise our voices in praise of this godly phenomenon, for it is truly a gift from above, ensuring the well-being of our beloved Earth.	0.53