

FluentAI API Documentation

Base URL:

http://localhost:5000

After deployment, we can replace with the server URL.

1. Start Eye Tracking

Endpoint:

POST /start_eye_tracking

Description:

Starts the eye-tracking process.

Request:

- No parameters required.

Response:

```
{  
  "message": "Eye tracking started"  
}
```

2. Stop Eye Tracking

Endpoint:

POST /stop_eye_tracking

Description:

Stops the eye-tracking process.

Request:

- No parameters required.

Response:

```
{  
  "message": "Eye tracking stopped"  
}
```

3. Get Eye Status

Endpoint:

GET /get_eye_status

Description:

Returns the current eye-tracking status.

Response:

```
{  
  "eye_status": "Converging (Focused)"  
}
```

Possible eye_status values:

- "Neutral"
- "Converging (Focused)"
- "Diverging (Looking Away)"

4. Video Feed for Eye Tracking

Endpoint:

GET /video_feed

Description:

Streams the real-time video feed with eye tracking.

Response:

- **Content Type:** multipart/x-mixed-replace; boundary=frame
- **Returns:** Live video stream (MJPEG format).

5. Check Grammar

Endpoint:

POST /check_grammar

Description:

Checks the grammar of the given text using the LanguageTool API.

Request:**Content-Type:** application/json**Body:**

```
{
  "text": "This is an example sentence with bad grammer."
}
```

Response:

```
{
  "text": "This is an example sentence with bad grammer.",
  "corrections": [
    {
      "message": "Possible spelling mistake found.",
      "replacement": "grammar"
    }
  ],
  "judgment": " ⚠️ Good, but a few minor mistakes."
}
```

Possible judgment values:

- "✅ Excellent! No mistakes detected."
- "⚠️ Good, but a few minor mistakes."
- "❌ Needs Improvement! Several grammar mistakes found."

How to Test the APIs

1. Use **Postman** or **cURL** to test the endpoints.
2. Example cURL command to check grammar:

```
curl -X POST http://localhost:5000/check_grammar \
-H "Content-Type: application/json" \
-d '{"text": "This is an example of bad grammer."}'
```