

Description: A caption generator for images using BLIP ai for image recognition and description then sent to locally hosted mistral model for funny caption generation. Users upload an image and they receive a description of it along with a funny caption.

Jayden Hutchinson

- Hosted the server on my glow-host account
- Created the image form submission element
- Styled the site using css
- Created constants.js
- Made the layout and functionality of the index page to have login and signup buttons upon visit, once the user is signed in it decides what to display dynamically
- Hosted and configured the backend database that stores user information.
- Wrote sql scripts to be used when querying the database

Anil Bronson

- Hosted llms on local machine
- Hosted lilm api swagger documentation
- Created all the swagger documentation for the api's
- Set up proxy server to tunnel requests from site to local lilm using ngrok
- Cool loading animation 😎

Coda Miles

- Created admin api calls and page to track api usage and manage users
- Helped link the photo analysis description to caption generating ai
- Tracked usage events to display method and frequency of calls by user
- Hosted front end
- Set up jwt based authentication
- Added delete and patch method endpoints for admins to call

URL of user login/registration page.

Username: john@john.com

Password: 123

<https://comp4537assignmentclient.netlify.app/login.html>

<https://comp4537assignmentclient.netlify.app/signup.html>

URL of admin login page.

Username: admin@amin.com

Password: 111

<https://comp4537assignmentclient.netlify.app/login.html>

Link to your work (for feature testing).

<https://comp4537assignmentclient.netlify.app/>

Link to your API documentation page (/doc/).

<https://j-hutchinson.com/COMP4537/assignment/server/doc/>

<https://walrus-app-icrpq.ondigitalocean.app/doc/>

2-3 samples of making HTTP requests.

The screenshot displays two API request configurations side-by-side.

Top Request:

- Method:** POST
- Endpoint:** /analyze Analyze image and generate captions
- Description:** Upload an image to get a description from BLIP AI and an enhanced funny caption from Mistral
- Parameters:** No parameters
- Request body (required):** application/json
- Example Value | Schema:**

```
{ "image": "string" }
```

Bottom Request:

- Method:** POST
- Endpoint:** /v1/chat/completions Chat with Mistral LLM
- Description:** Send messages to the Mistral language model and get a response
- Parameters:** No parameters
- Request body (required):** application/json
- Example Value | Schema:**

```
{ "messages": [ { "role": "user", "content": "Hello, how are you?" } ] }
```

*Claude 4.5 was used to fix syntax in the codebase.