

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 llm api swagger documentation
- Created all the swagger documentation for the api's
- Set up proxy server to tunnel requests from site to local llm 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 shows a REST client interface for a POST request to the endpoint `/analyze`. The description is "Analyze image and generate captions". Below the description, it says "Upload an image to get a description from BLIP AI and an enhanced funny caption from Mistral". There is a "Parameters" section with "No parameters" and a "Try it out" button. The "Request body" section is marked as "required" and has a dropdown menu set to "application/json". Below this, there is an "Example Value" section with a code editor showing a JSON object:

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

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The screenshot shows a REST client interface for a POST request to the endpoint `/v1/chat/completions`. The description is "Chat with Mistral LLM". Below the description, it says "Send messages to the Mistral language model and get a response". There is a "Parameters" section with "No parameters" and a "Try it out" button. The "Request body" section is marked as "required" and has a dropdown menu set to "application/json". Below this, there is an "Example Value" section with a code editor showing a JSON object:

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

.

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