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P5 (FINAL) doc
Softdev Pd 8

Target Ship Date: Tuesday June 13, 2023

Site: AI prompt determinant Gartic Phone (AIPDGP????)
Goal: Players will take turns drawing an image based off a previous image
Stretch: Players will take turns drawing an image based off a prompt generated by an AI from the previous image

Major Considerations:
- **Database (or lack thereof)**: A more .io style pick-up browser game has no need for logins, and saving images outside a file system is unnecessary (and ill advised!). No Mongo, no SQL.
- **Image Manipulation:** Images will be stored as individual pixels in a 2d array, and converted into a jpg for feeding into the AI through Pillow.
- **Interpreting AI prompts:** How much of the prompt are we to input as the prompt? Are we going to sanitize any of it (ie. the phrase "black and white")?
- **Drawing/Game time:** How long are games expected to go on?
- **Initial prompt:** How is the first prompt determined?
- **Groupings:** Room codes? Implementation?

FE:
- Bootstrap (many boots do not have straps, they have laces???)
  - Why: Our team unanimously agrees that bootstrap looks the best and is easiest to use
  - How: We will be using the Bootstrap grid to organize the web page. This way, our website will be accessible on mobile.
- HTMLs:
  - login.html
  - game.html
- Fields required:
  - Temporary username
  - Room code

API: Astica (https://www.astica.org/api-docs/asticaVision/): AI image recognition to create a prompt based off an image, will be used to create the next player's prompts
Methods required:

- **TAKES** a jpg image **&& RETURNS** a string description of the image

Flask: Using the flask-socketio library to handle "rooming" users together and to take user drawings from the site, turn them into JPEGs, feed them to the API, and return a new prompt.
- __init__.py: Skeleton of project, handles the user
- api.py: File that utilizes the aforementioned Astica AI to generate image prompts

Components:
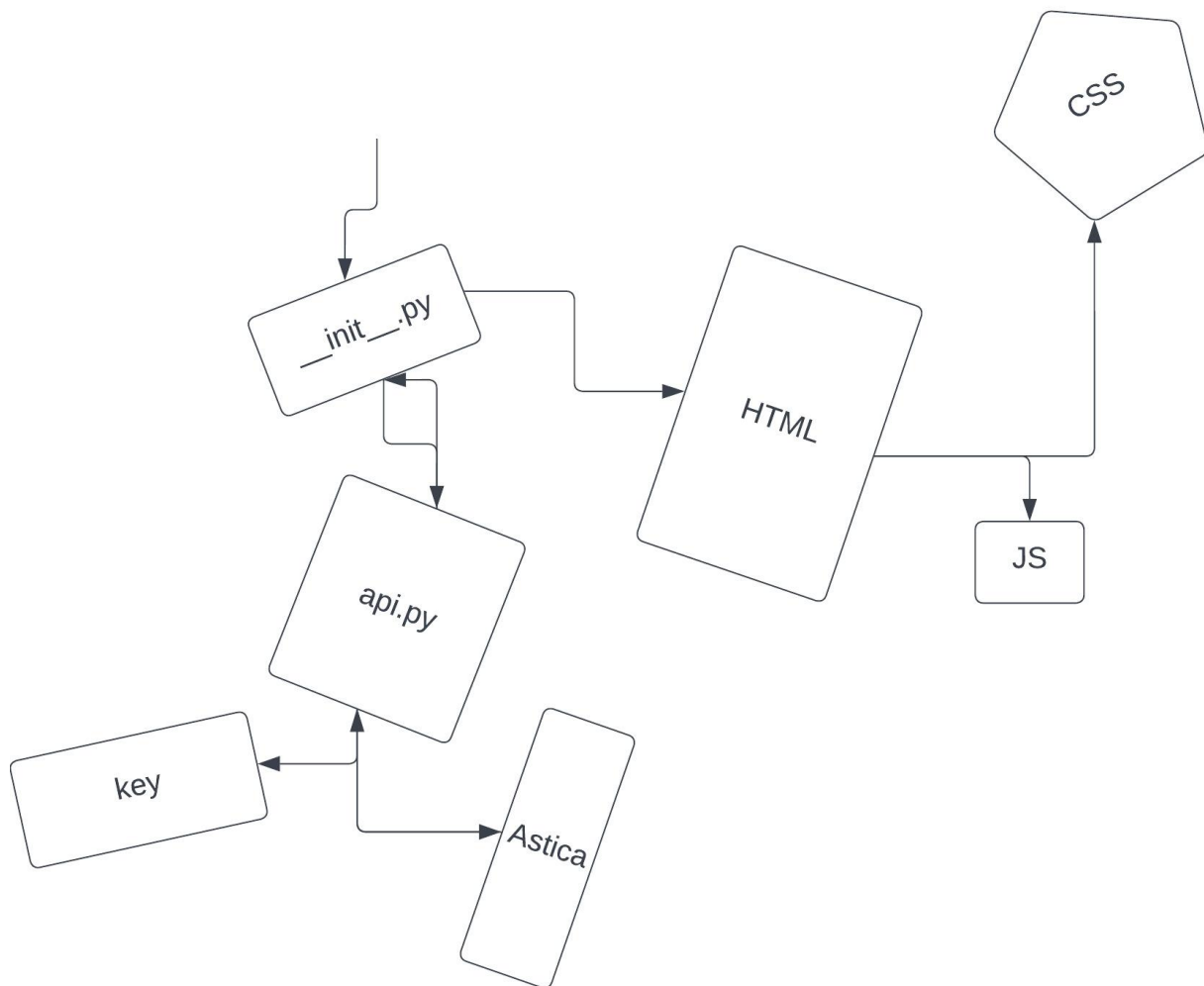
Site:
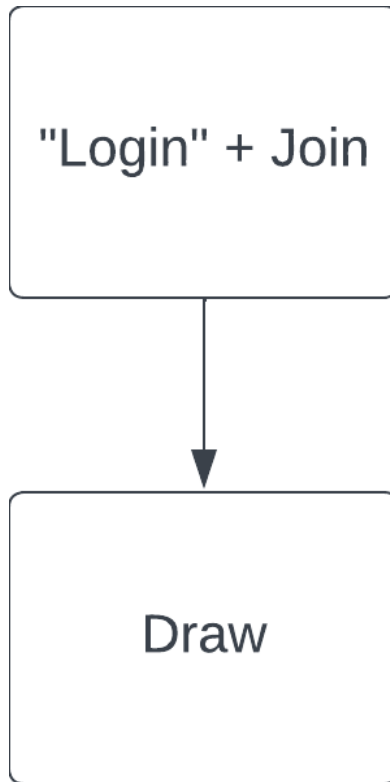
Breakdown of roles (these are tentative — as we work on this project more and discover that each part of it is easier/harder than we thought, we will refine this):
- Flask: Sadi and Karen
- API: Brian
- FE: Gabriel

Major parts of project:
- Figuring out how to get data to/from the API
- Figuring out how to use flask-socketio
  - First, just getting the module working *at all*. Then, actually getting it to work for our use case. This will probably be pretty tricky because websockets seem complicated
- Figuring out the layout for each webpage, and how it should connect to the back-end