Prompt

Create a project, written in Javascript, that scrapes the first 1,000 domains of the Alexa top million domains, finds their favicon URL, and saves the results to a CSV. Build a UI that accepts a CSV file as the input and displays the results on screen, in addition to outputting a CSV file. The relevant domains can be found in the included file `favicon-finder-top-1k-domains.csv`.

The resulting CSV, `favicons.csv`, should contain the domain, its Alexa rank, and the full URL path to the favicon in the following structure:

rank	**domain**	**favicon_url**
1	google.com	https://www.google.com/favicon.ico
2	youtube.com	https://youtube.com/favicon.ico
...		

Deliverable

Requirements

1. The project processes all 1,000 domains in fewer than five minutes.
2. The project has a UI that accepts a CSV file input, outputs a resulting CSV file, and shows the results on screen.
3. The project contains usage instructions that we can follow to run the project.
4. The project is representative of your own work, though you may use online resources.
    a. If you drew inspiration from any sources in particular, please include a link in your project's README.
5. The project should adhere to best practices of software design.

    a. This might include, but is not limited to, things like: running the project in Docker, writing unit tests, incorporating a linting suite, writing docstrings, etc. None of these specific features are required; rather, they are just suggestions based on successful projects we've seen in the past.
6. The UI can be as simple or intricate as you'd like. Our expectations are:
    a. There is an input to upload a CSV file
    b. The resulting CSV file can be downloaded from the UI
    c. The number of successful / unsuccessful favicons are displayed
    d. The time it took to process all favicons is displayed
    e. (We're not going to critique your design skills)

General Notes

1. The project is designed to take less than a day to complete, although feel free to take more or less time as you see fit.
2. This assessment is used in lieu of a live coding interview during the final round of the hiring process. You will be asked to present on this project during the final round.

Submission

When you are finished, please zip your source code and output CSV. Send that zip file to your recruiter. Make sure that:

1. The project does not include your name or other identifying information.
2. You do not upload your work to Github or distribute elsewhere.

Evaluation

When assessing the project, we will be looking for a few things:

1. Does the project meet the requirements of the prompt? (We will not evaluate projects further if they do not meet the prompt requirements.)

2. Can we run the code and reproduce your result? Is the user experience (UX) reasonable?
3. What is the general quality of the code?
4. How is the project organized?