

PyDisaster

By: Jason Huang, Tiffany Houston,
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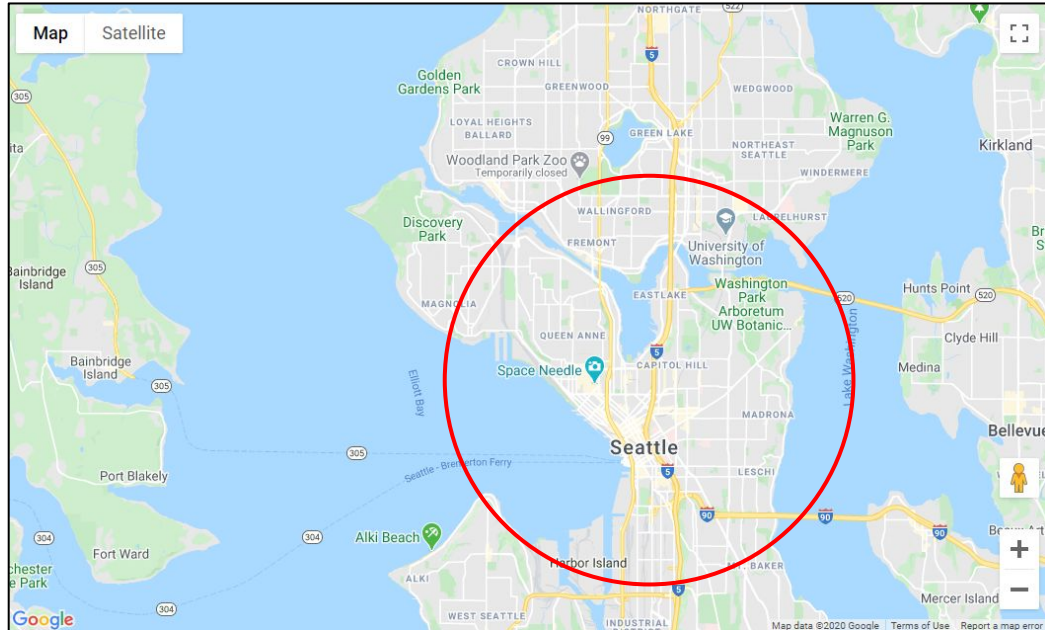


Agenda:

- Overview - (*Tiffany*)
- Problem Statement - (*Anshul*)
- Methodology - (*Kemal*)
- Flask App Demo - (*Jason*)
- Working with Google - (*Anshul*)
- Future considerations - (*Kemal & Tiffany*)
- Q&A - (*The PyDisaster Squad*)

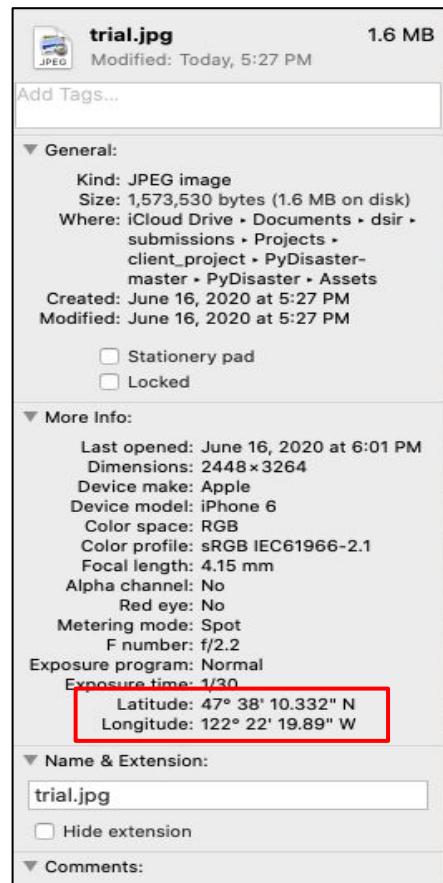
Problem statement:

The PyDisaster team is tasked with creating a platform that will extract valuable geo-location information from user pictures.

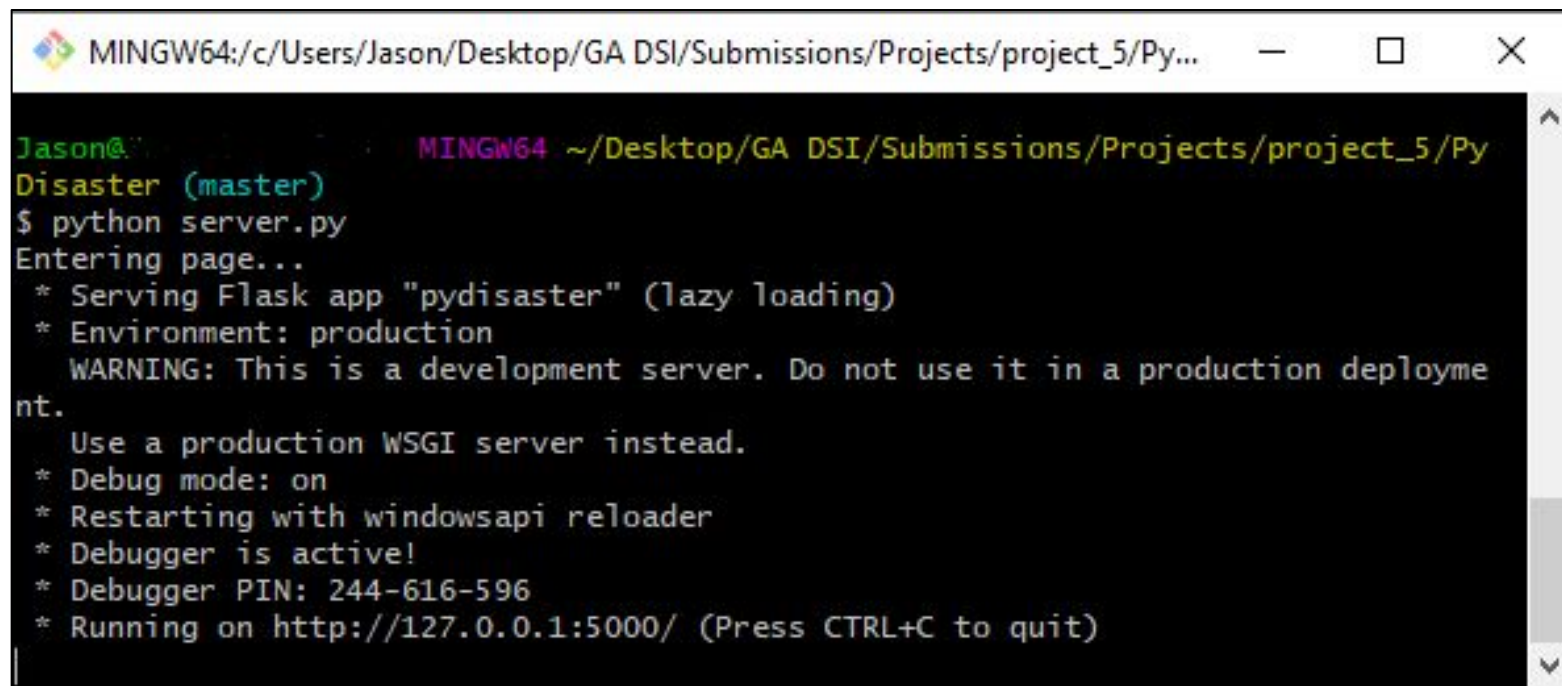


Methodology:

- Utilizes real time data
- **iPhone** or **Android** photo classification
- Reads EXIF data and extracts GPS info:
 - Lat/Long
 - Lat/Long Reference
 - Minutes
 - Seconds
 - Date/Time of picture



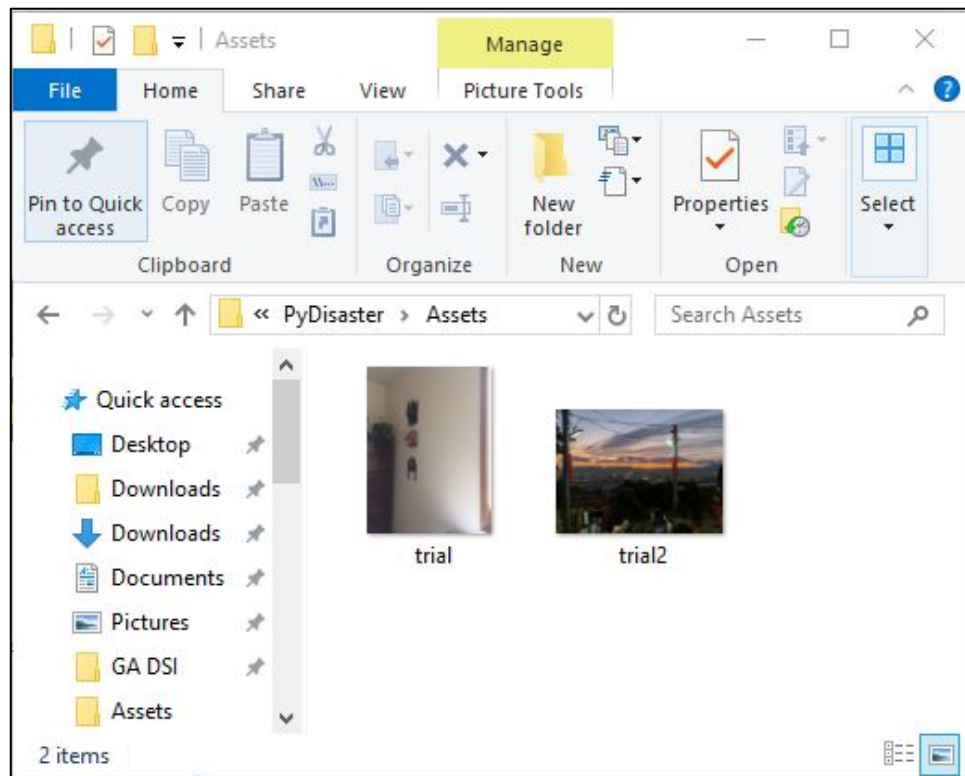
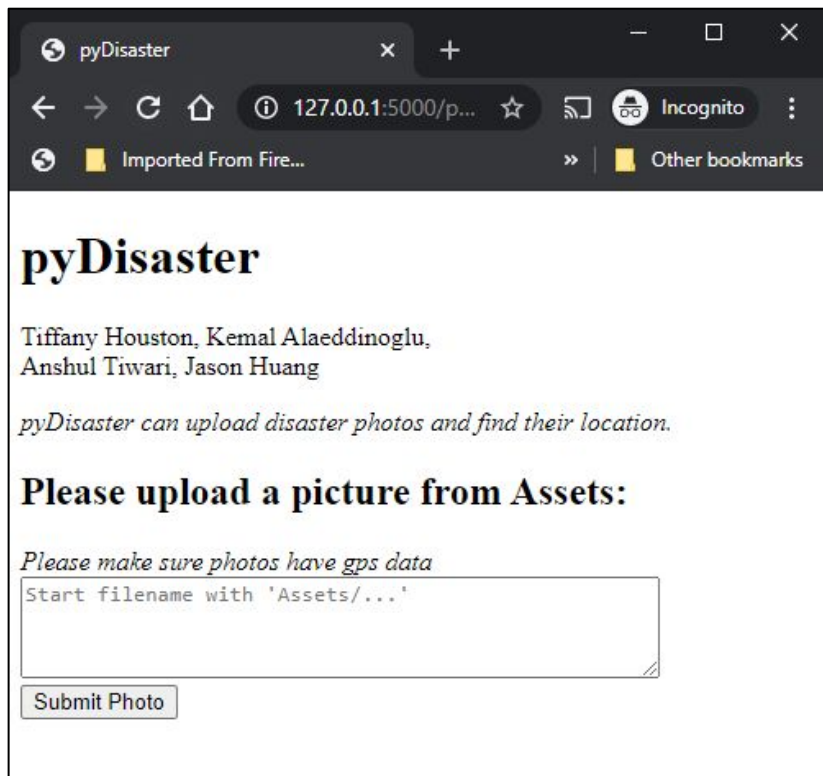
Flask App:



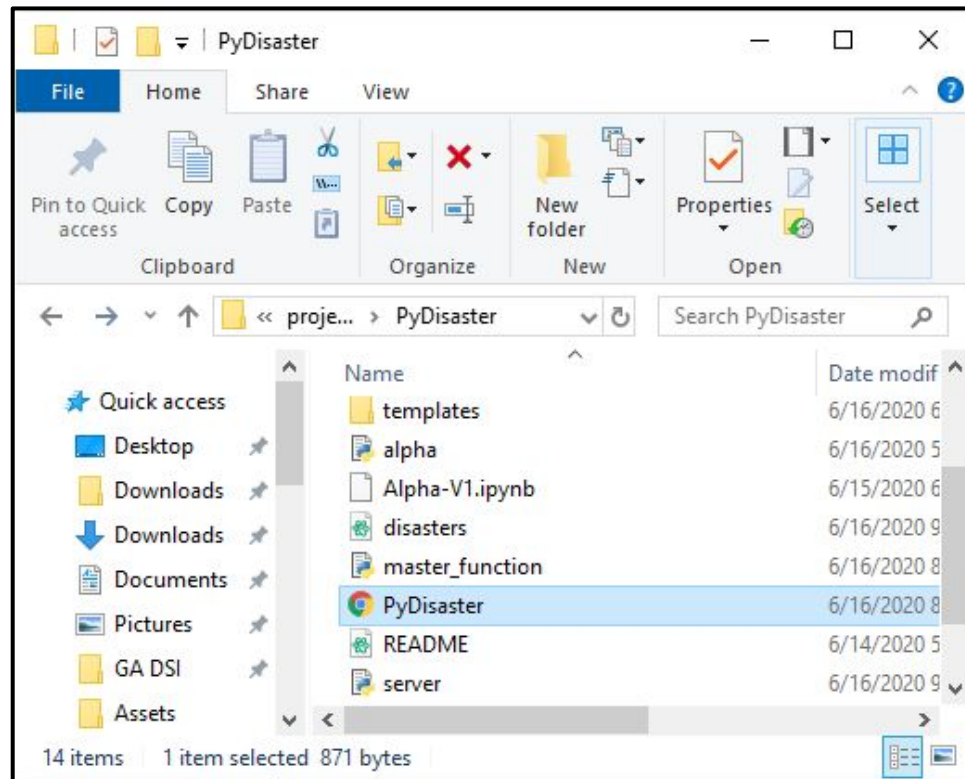
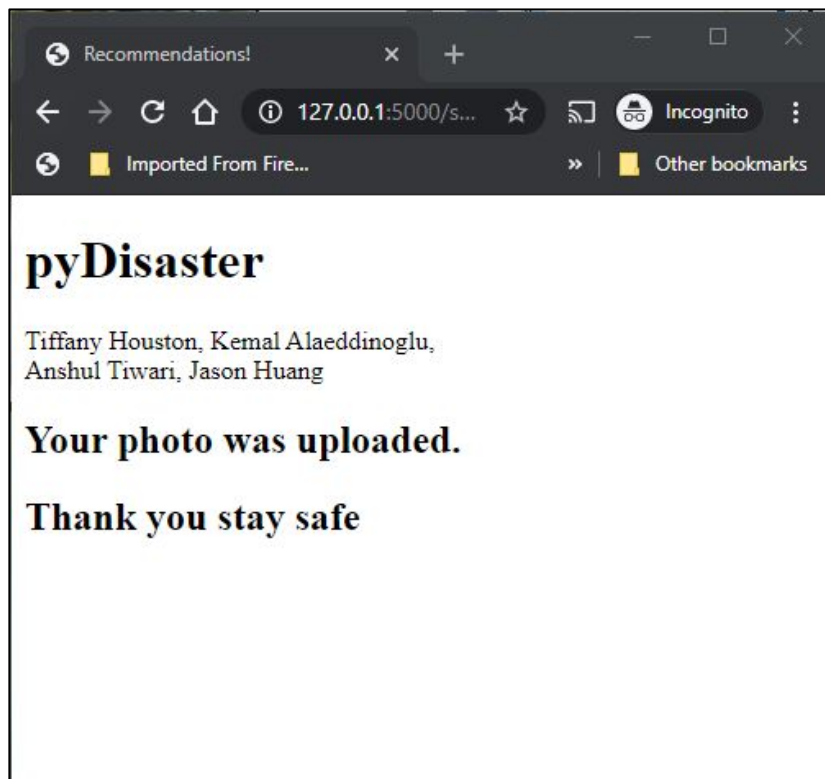
A screenshot of a Windows command prompt window. The title bar shows the path "MINGW64:/c/Users/Jason/Desktop/GA DSI/Submissions/Projects/project_5/Py...". The prompt is "Jason@... MINGW64 ~/Desktop/GA DSI/Submissions/Projects/project_5/PyDisaster (master)". The user has entered the command "\$ python server.py". The output shows the Flask application starting, including a warning about the development server and the URL "http://127.0.0.1:5000/".

```
MINGW64:/c/Users/Jason/Desktop/GA DSI/Submissions/Projects/project_5/Py...
Jason@... MINGW64 ~/Desktop/GA DSI/Submissions/Projects/project_5/PyDisaster (master)
$ python server.py
Entering page...
* Serving Flask app "pydisaster" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with windowsapi reloader
* Debugger is active!
* Debugger PIN: 244-616-596
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
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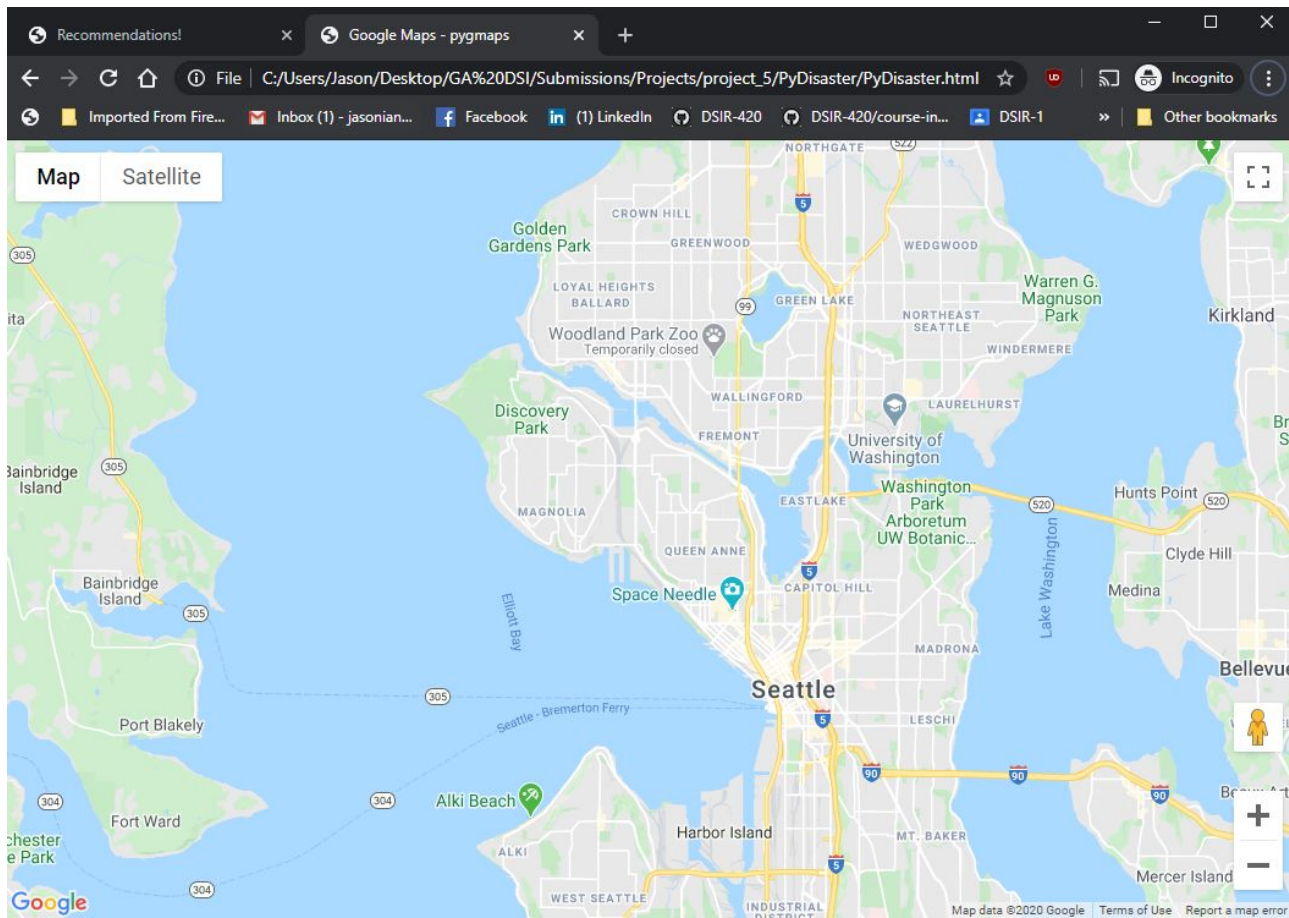
Flask App:



Flask App:

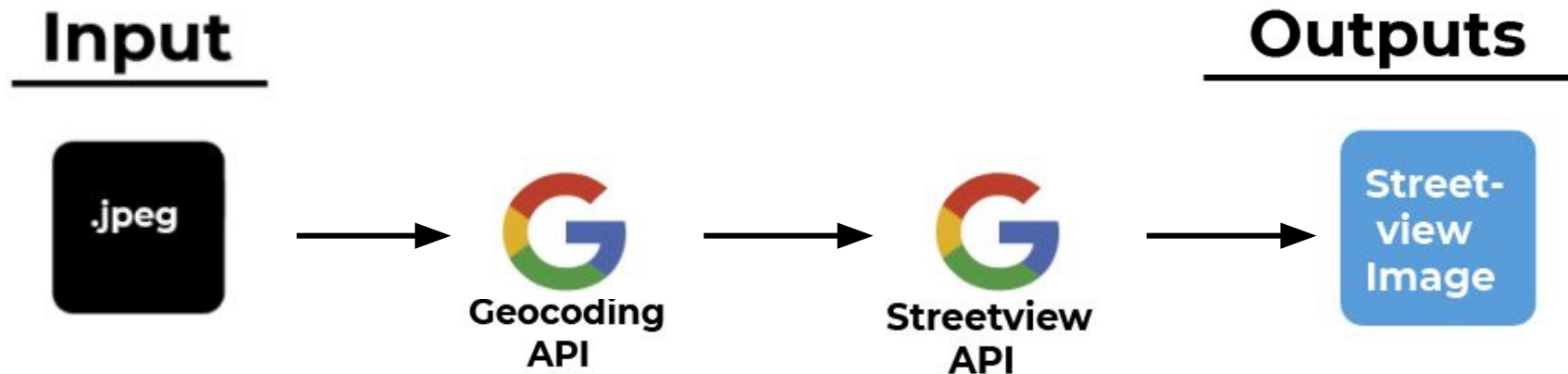


Flask App:



Working with Google Maps API:

- Google Vision/Google Map API produces a map on a trusted platform that is recognized across the globe.



Future Considerations / Areas for Improvement:

- Make deployable to social media platforms
- Allow user to annotate or tag photos
- Improve user experience (UX) for photo uploads
- Prioritizing areas that require immediate attention

Questions?

