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SI 507 Final Project Proposal

For my final project, I would like to leverage Health API: COVID-19 and the Kaiser Family Foundation webpages with state-by-state statistics on the percentage of high risk adults in a state. My objective is to create an interactive program that allows a user to enter a country or state for which they would like to see the total confirmed cases, deaths, and recoveries from COVID-19, using the Health API. If the user entered a state, they will be asked if they would like to see the percentage of adults in that state that are classified as high risk due to underlying health concerns. To find this information, the program will crawl and scrape the Kaiser Family Foundation’s website which has a page with this information for each state. Finally, the user can either enter a new country or state to see their respective stats on COVID-19 cases.

A few other ideas I may consider implementing, are a graph of the COVID-19 cases for a state or country that is searched, depending on how I can implement caching and leverage the “last update” key in the results. Additionally, because I enjoyed using the News API and it could help to contextualize the results, I am considering returning the prior day’s headlines related to COVID-19 for the country that was searched in the first step.

The Health API: COVID-19 is a new-to-me (and probably everyone) API that does not require any authorization. I have successfully called the API to return information. I have used the Kaiser Family Foundation website for reading articles but never for scraping and I could not find any information regarding their T’s & C’s and crawling and scrapping their pages. I successfully returned the soup from one of the state pages I would like to work with but was having some difficulty extracting the exact text I want from the table. This project has a challenge score of 11 points since the API is new to me and the crawling will involve navigating multiple pages.

Health API: COVID-19 Link:

<https://health-api.com/#data-source>

Kaiser Family Foundation State Information:

* Potential beginning point to build a dictionary of links for each state like the National Parks Project: <https://www.kff.org/statedata/>
* Each state also has a page with the state’s health state which contains a link to the page that has stats on adults at higher risk of serious illness: <https://www.kff.org/state-category/health-status/?state=MI>
* Full link for the table containing the desired information: <https://www.kff.org/other/state-indicator/adults-at-higher-risk-of-serious-illness-if-infected-with-coronavirus/?currentTimeframe=0&selectedRows=%7B%22states%22:%7B%22michigan%22:%7B%7D%7D%7D&sortModel=%7B%22colId%22:%22Location%22,%22sort%22:%22asc%22%7D>