IRisk Lab Data Discovery and Consolidation - Task 2 Week 12 Report

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What was accomplished

- ❖ Conducted discussions with Group 1 to understand their specific dataset merging needs.
- Clarified the key columns or criteria for merging the datasets effectively.
- ❖ Demonstrated how to use Pandas to read specific sheets from Excel files, showcasing its flexibility in handling various data formats.
- ❖ Guided Group 1 through the process of loading datasets into Pandas DataFrames.
- Merging Techniques:
 - ➤ Introduced different merging techniques such as inner, outer, left, and right merges based on the desired outcome.
 - > Explained the importance of choosing the appropriate merging method to retain relevant information
- **❖** Handling Missing Data:
 - ➤ Addressed strategies for handling missing or mismatched data during the merging process
- Optimizing Performance:
 - > Shared tips on optimizing performance, especially for large datasets, to enhance the efficiency of the merging process.
- ❖ Teaming up with Zifan, worked on creating an API interface for mapping functionalities
 - ➤ Created tech stack for product: React.js for frontend connected to an API created on the backend using Flask and Python. The web scraping tool would be made in Python using the Beautiful Soup module

Next Steps

Now that we have the full plan, we build out the rest of the interface