LIS598 Project 2: ThesaurusViewer
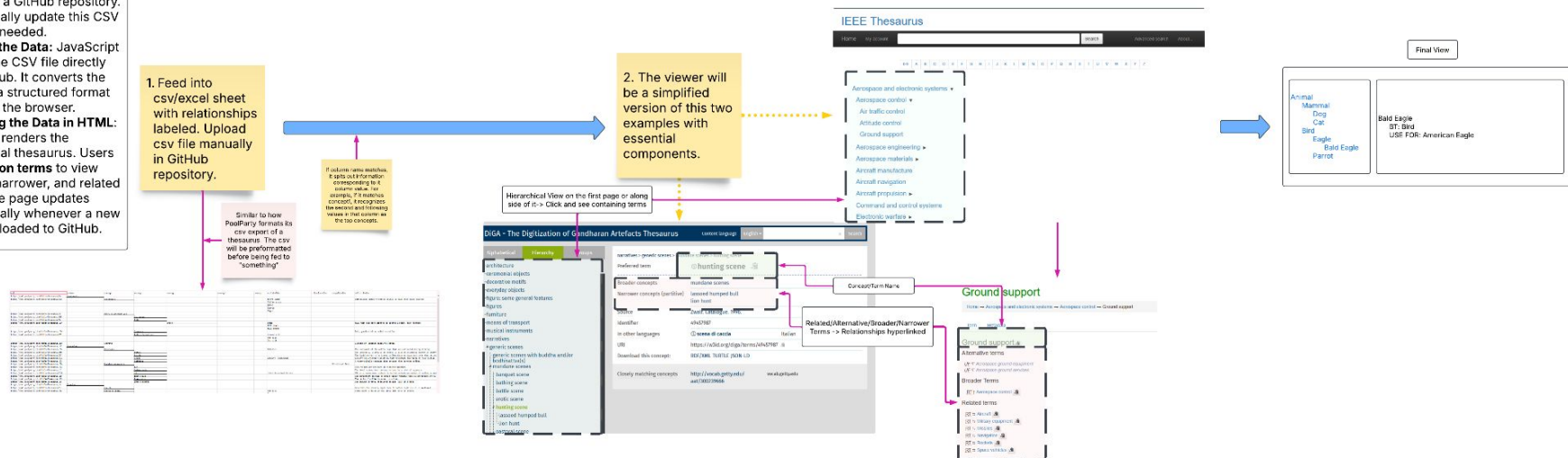
Doreen Chen
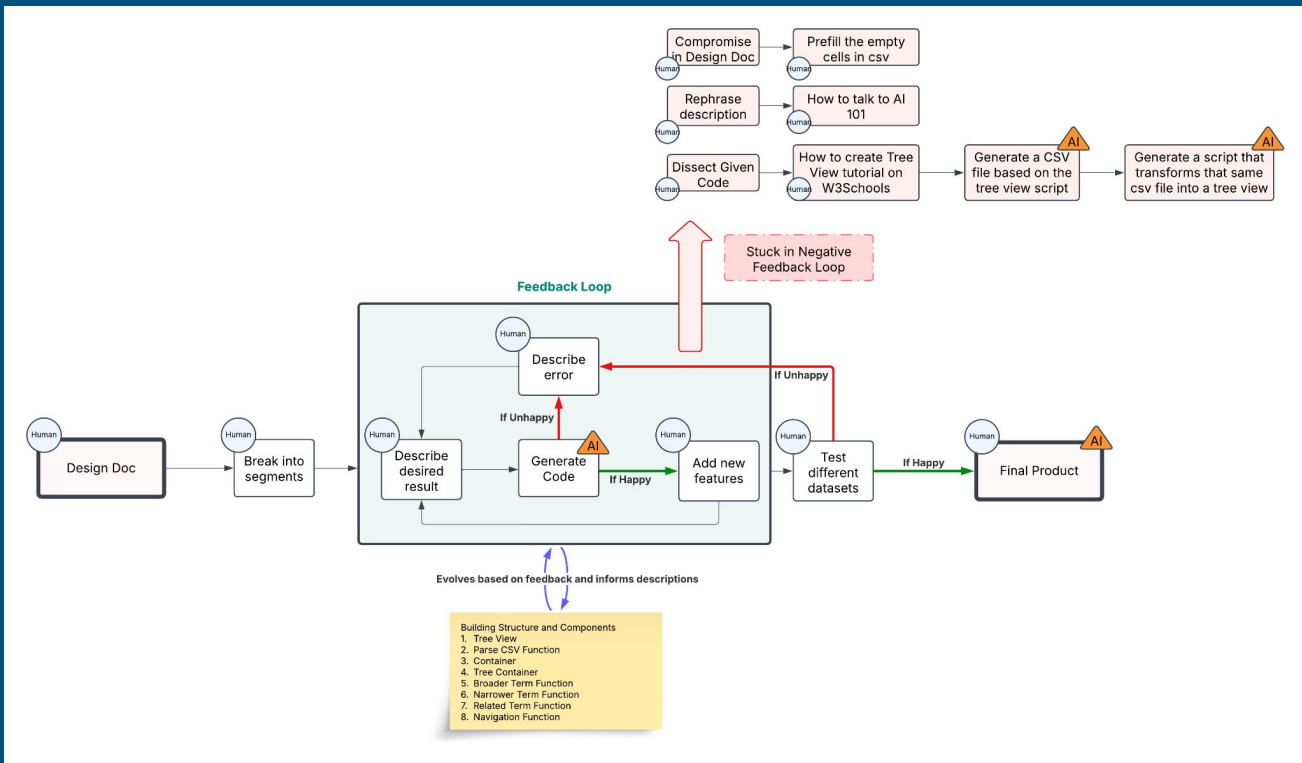
Design Doc

Specified Frontend Only to ChatGPT and Edited Process:
1. **CSV File Storage:** The thesaurus is stored in a **CSV file** inside a GitHub repository. You manually update this CSV file when needed.
2. **Fetching the Data:** JavaScript fetches the CSV file directly from GitHub. It converts the CSV into a structured format (JSON) in the browser.
3. **Displaying the Data in HTML:** The page renders the hierarchical thesaurus. Users can **click on terms** to view broader, narrower, and related terms. The page updates automatically whenever a new CSV is uploaded to GitHub.

1. Feed into csv/excel sheet with relationships labeled. Upload csv file manually in GitHub repository.

If column name matches, it spits out information corresponding to it column value. For example, if it matches a concept, it recognizes the second and following values in that column as the top concepts.

Similar to how PoolParty formats its csv export of a thesaurus. The csv will be preformatted before being fed to "something".

2. The viewer will be a simplified version of this two examples with essential components.

Hierarchical View on the first page or along side of it -> Click and see containing terms

Concept/Turn Name

Related/Alternative/Broader/Narrower Terms -> Relationships hyperlinked

Final View

AI-Integration Workflow

How to Talk to AI

Concept 1		Concept 2		Concept 3C
Condiments				
Condiments		Sweeteners		
Condiments		Dairy & Alternatives		
Condiments		Dairy & Alternatives		Ice cream

Sweeteners is the narrower term for Condiments.

Initial Approach:

"...Create a frontend only code that can parse this csv file and display a hierarchical list in html. Here are the rules: The first row indicates the relationship between the terms. Concept 1 is the top level term. Concept 2 is the broader term for concept 3 and narrower term for concept 1..."

Gave me a script that displayed something but didn't work.

End Approach:

"Create a function that uses the logic: if end node A is the second to last value before end node B, then in the detail of end node A , indicates end node B is the narrower term of end node A"

Still required some tweaking around but worked better.

Final Product

https://dchen077.github.io/LIS598ThesaurusViewer/

Uses my group project Coffee Thesaurus from LIS537

Transportation.csv

Safety and security
  Crashes
    Crash analysis
    Crash causes
  Hazards and emergency operations
Persons and personal characteristics

Crashes

Broader Terms: Safety and security

Narrower Terms: Crash analysis, Crash causes

Related Terms: Disasters, Emergencies

Bring me to the magical world of GitHub!

Future Goals

1. User uploads csv.files instead of uploading it in GitHub and changing the script.
2. Script that populates empty cells and auto fill until next values. (Being experimented)
3. Make it more user friendly and add a css styling option that is more professional.
4. Less strict structure. (Currently Related Term and Definition must be the last two columns).
5. Add additional details (USE FOR, Scope Notes)