Team itWorksOnMyMachine

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SoftDev
P04: Makers Makin' It, Act II -- The Seequel
2025-03-27
Time Spent: 2
Target Ship Date: 2025-04-07
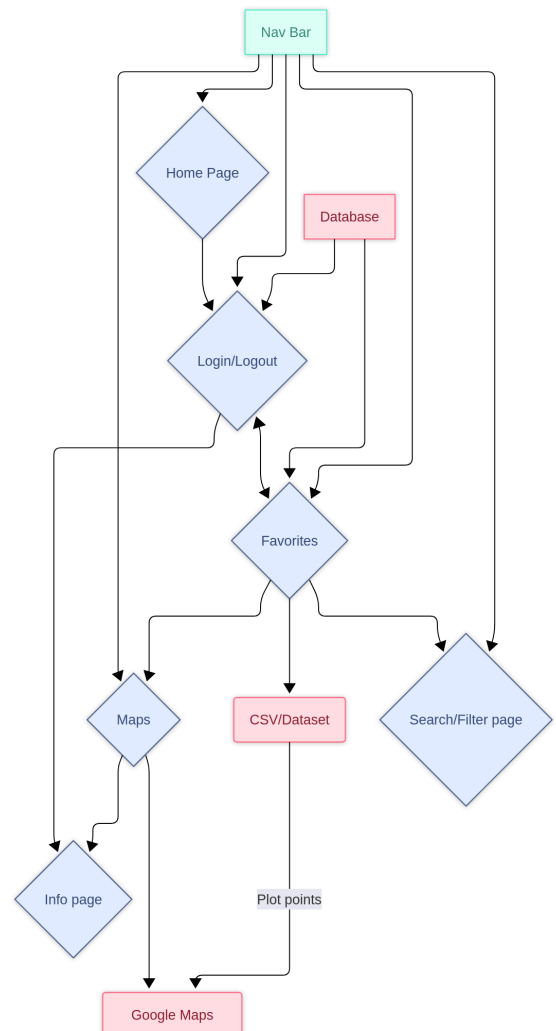

Project Idea/Description:

Recreation of Google maps with UNESCO World Heritage sites "highlighted" on the map. Clicking on any individual marker on the map leads to a resource page with information about the site from the dataset. Another feature is being able to filter out certain sites from the dataset and being able to "mark"/favorite sites that you enjoy when logged in.

Components:

- Google maps replica
    - Clicking on countries will show the landmarks there
- Page that allows you to filter results
    - Allows you to choose certain parameters that will prevent certain results from showing up
    - Being able to clearly see data through this
- User Accounts:
    - Logging in and logging out
    - Register for an account
    - Using sessions to remain logged in
    - Being able to favorite sites

Component Relationship:

- Users can use the website while they are not logged in. However, they cannot have favorite pages.
- Route to a landing page where the user can sign up/login

Component Map:

- Homepage/Maps
    - Contains the main map
- Login/Logout
    - Allows you to login and logout
- Favorites/Settings
    - Accessible with accounts
- Search/Filter
    - Filter results of the map

Database(s):

Username	Password	Favorites

Roles (task breakdown):

Caden Khuu (PM)
    Database SQL
    Python Backend

Qianjun Zhou
    Python Backend

Tiffany Yang
    HTML
    CSS

Wen Zhang (wenyz_)
    Python Backend
    Full stack dev

Site map: [Front end]

- Nav Bar
    - Home
    - Login -> logout (if logged in)
    - Maps
    - Search (the filter page)
    - Favorites (redirects to login if logged out)
- Map Page
    - Google maps API with markers that would link to page w/ information on the site
- Search/filters
    - Search bar with filter tools/options, results can link to page w/ information on the site

Tooling:

Framework: Tailwind   Frontend: HTML/CSS

Database: SQLite   Backend: Python

VisualizationLibrary: d3js

APIs/Datasets/OtherLinks:

https://leafletjs.com/

https://www.kaggle.com/datasets/joebeachcapital/unesco-world-heritage-sites/data

https://whc.unesco.org/en/list/   or https://whc.unesco.org/en/syndication

https://developers.google.com/codelabs/maps-platform/maps-platform-3d-maps-js-markers#9

https://www.youtube.com/watch?v=BDpBAFvdjYo