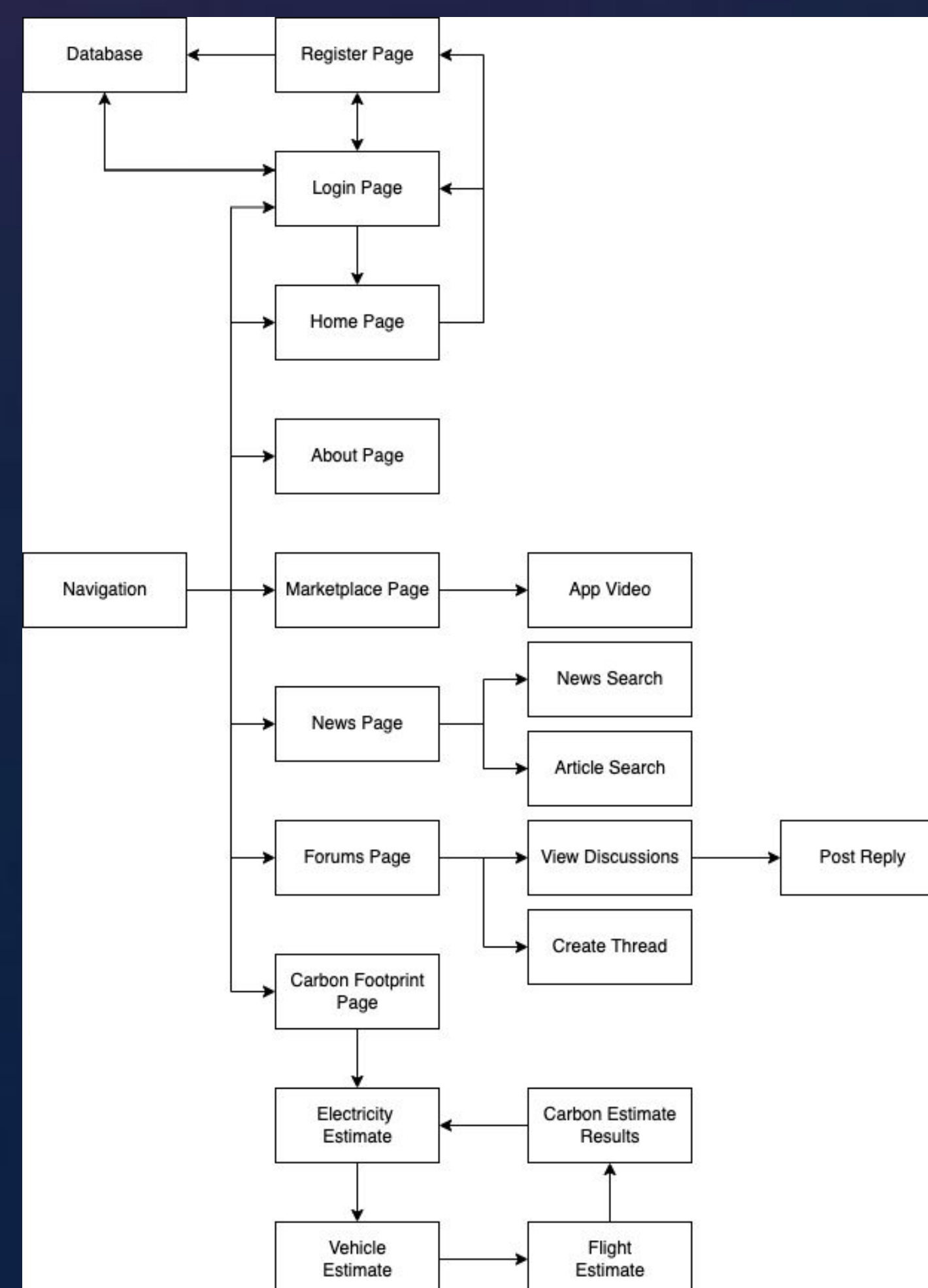


PROBLEM

The previous version of the Community Connect website was enlarged, mostly unresponsive, and incomplete regarding main components like the search and carbon calculator, as well as their respective pages. The goal this semester was to implement the Carbon API used to calculate carbon emissions and make the website look like the original design with 4 pages: Home, Forums, Sustainability, and Marketplace.

SYSTEM DESIGN



VERIFICATION

Website was able to be successfully tested locally on Google Chrome, Firefox, and Microsoft Edge using MacOS, Windows, and Linux, all with screens of different sizes.

CURRENT SYSTEM

The application's back-end source code, dependencies, and database are packaged into a container by the existing system using Docker, an open source containerization technology. The system also makes use of APIs to get the most recent news based on relevant subjects and places. The UI home page was revamped. There are now pages for guides, news, and trends. Depending on the location, these pages display relevant content.

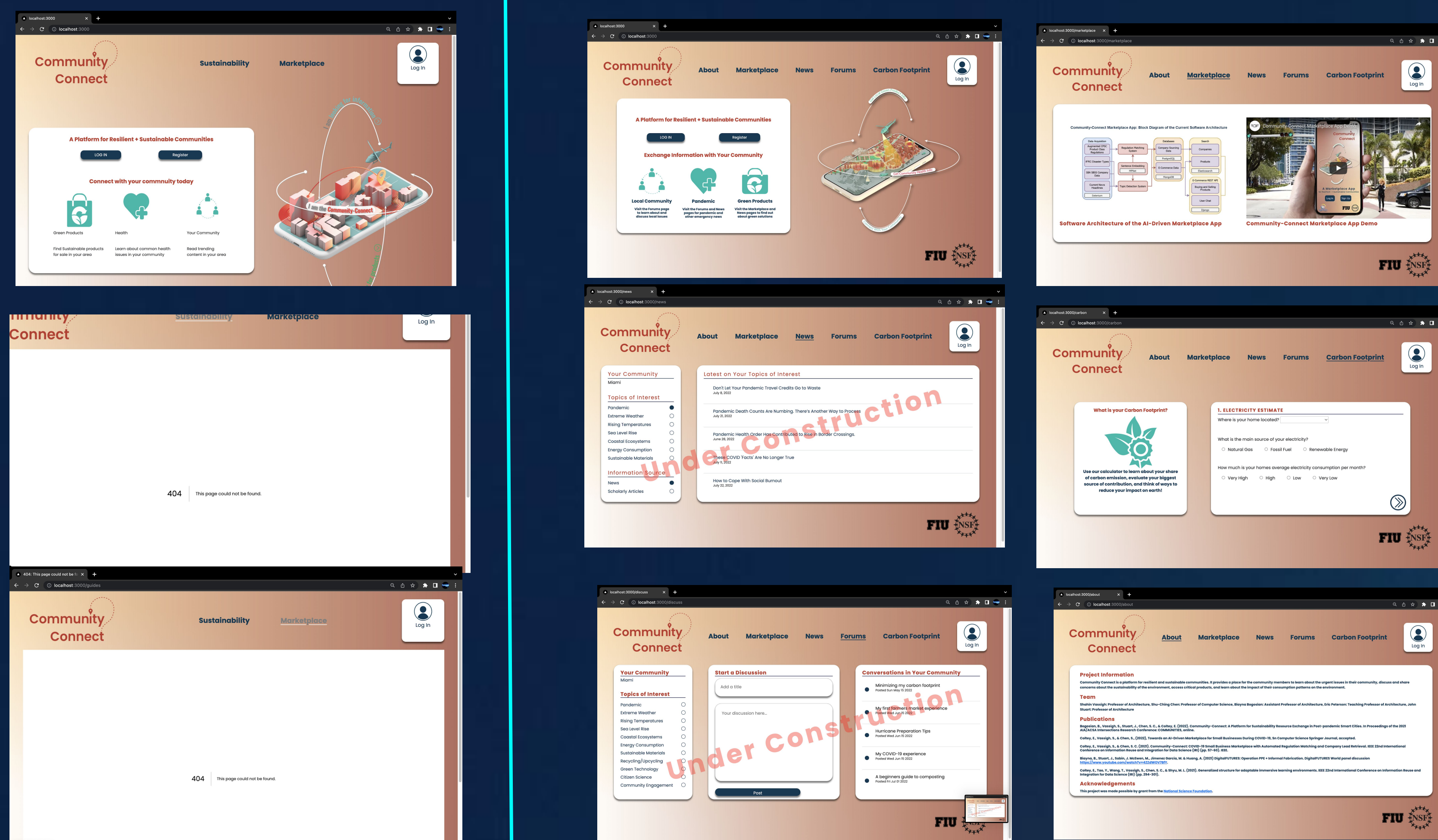
WEBSITE DESIGN



OLD VERSION

VS

NEW VERSION



REQUIREMENTS

Web-based, Option to sign-up with email.

IMPLEMENTATION

- CarbonAPI to calculate the carbon emissions on the new Carbon Footprint page.
- NewsAPI/Google Scholar to display news sources on the new News page.
- Added the new About page as requested.
- Modified Marketplace page as requested, two times.
- Modified Home page as requested, two times.
- Modified Forums page design and to constantly be on the navigation menu.

SUMMARY

Us students modified the Community Connect website as was requested by the product owner using their materials as reference. The design changed twice throughout the semester requiring altering what was already done. We implemented the Carbon API to be used on the Carbon Footprint page and we replaced the old generic search method with NewsAPI and GoogleScholar as requested by the owner. In deployment the NewsAPI has not been deployed due to the subscription requirement for non-development purposes.

APPS USE ON MANGEMENTS

- Docker (Deployment Only)
- Django
- PostgreSQL 13
- Python3
- NodeJS
- Axios
- ReactJS
- NextJS
- Git
- VS Code

ACKNOWLEDGEMENT

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