Datapunk

Team Members: Ethan EJ

Name of Task: Docker Container Configuration and Orchestration

Amount of Time: 8 hours

Performed By: Ethan EJ

Description: Established the foundational microservices architecture using Docker containers. Created and configured:

- Frontend container (SvelteKit)

- Backend container (FastAPI)

- PostgreSQL database container with extensions

Implemented container orchestration using docker-compose with health checks and proper networking between services. Created separate Dockerfiles and docker-compose configurations for each service to allow independent scaling and deployment.

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Name of Task: Frontend Base Implementation with SvelteKit

Amount of Time: 4 hours

Performed By: Ethan EJ

Description: Set up the initial SvelteKit frontend application with TypeScript support. Implemented:

- Project structure with routes for analytics, import, reports, and settings

- Custom fonts integration (Bladesinger and PixelOperator variants)

- Base styling and CSS configuration

- Initial app store setup for state management

- Lots of research, as I switched to svelte to react, as I have seen recently that the industry is moving toward the svelte style, and that it was more in line with how Datapunk is supposed to function.

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Name of Task: Responsive Sidebar Component

Amount of Time: 2 hours

Performed By: Ethan EJ

Description: Developed a collapsible sidebar navigation component using SvelteKit and custom CSS. Features include:

- Animated collapse/expand functionality

- Responsive design with proper styling

- Integration with app store for state management

The sidebar includes navigation items for Home, Import, Analytics, Reports, and Settings pages.

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Name of Task: Database Infrastructure Setup

Amount of Time: 3 hours

Performed By: Ethan EJ

Description: Configured PostgreSQL database with essential extensions for the project:

- Set up initial database schema

- Configured PostGIS for geospatial data support

- Added pg\_cron for scheduled tasks

- Configured proper volume mounting for data persistence

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Name of Task: Backend Base Setup and Integration

Amount of Time: 2 hours

Performed By: Ethan EJ

Description: Established the outline of what the FastAPI backend will look like, but is currently non functional, as the main goal of the week was to get everything of the ground in containers.

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