Atlas

Tom Petty
@t.petty on GitHub

Description

Atlas was inspired by the neighborhood tour. Atlas currently supports creating a point of interest on a map (adding a marker) and searching for markers using a map. Start using Atlas and discover what people are sharing in your neighborhood.

Features

- User can create a Marker (add a point of interest)
- Marker CRUD (Create, Read, Update, Delete)
- Marker search – takes an adjustable radius parameter
- Login/register/logout – filters access
- Interactive map shows spatial relationship of markers
- Simple user interface

Planning - User Stories

- Users login to gain access to adding and searching features.
- Users search for markers based on location and a radius
- Users can view details of a marker
- Users can update and delete content they own
- Users set name, description, image, and location when creating a new marker

Planning - Database

Classes/Tables

- Marker (many to one User)
- User (one to many Markers)

*Local storage for images

Technology Stack

- Java
- Spring Boot
- Thymeleaf
- PostgreSQL with PostGIS extension
- Google Map API
- Tailwind

Demo

What I Learned

- PostGIS – preform native queries on geospatial data
- Google Map API – add markers, retrieve coordinates, draw geometry
- File storage system – store uploaded images locally
- Tailwind – css framework
- Custom validation annotations – for images and coordinates

What's Next

- Deploy – Google Cloud Services (step one link local app to cloud DB)
- Feature – Recover user/password using a google service account
- Feature – add JavaScript transitions for menu movement
- Develop API to allow custom applications