

App Idea

The Green Stormwater Infrastructure in Southeast Michigan" app aims to address urban stormwater management challenges in the region by promoting the use of green stormwater infrastructure (GSI). GSI practices utilize vegetation, soil, and natural systems to manage stormwater runoff, reducing flood risks in urban areas. The app serves as an educational tool for the general public, providing information on GSI importance, while high school students in Detroit can actively participate in mapping and observing urban green stormwater infrastructure. Through hands-on experience, students contribute to a GSI project, learning about sustainable urban stormwater management and fostering environmental stewardship. The app facilitates awareness of GSI benefits and encourages community engagement in managing urban flood risks.

Users

- High school students
 - 14-16 Y.O., some experience with technology.
 - Take and upload photos of green areas on the map, including information about the area.
 - View other green areas on the map.
 - Become more well informed about Green Stormwater Infrastructure.
- General Public
 - Any age, any technology experience level.
 - View green areas on the map.
 - Become more well informed about Green Stormwater Infrastructure.
- Scientist (Jessica Alger)
 - PhD age+, moderate technology experience level.
 - Add and remove green areas from the map.

Usage

This app will be used to read, learn, and contribute to information about Green Stormwater Infrastructure. The flagship feature will be a map of the Metro Detroit area (SE Michigan) containing green areas of interest, added by high school students in the area. These areas of interest will contain information about the green area and include the photos that were uploaded.

Data Types

- Text Data (Information about GSI)
- Photos (embedded in the informational sections)

- User-Submitted Photos (added by users)
 - Associated GPS coordinate data
- User Account data