

Group 4: Urban Green Infrastructure and Flood Risk

- **App Idea** – This app is intended to teach its user about the importance of green spaces within urban environments. These spaces are important for absorbing storm water, and reducing flooding in urban areas. In addition, the app will allow users to identify green spaces in their surrounding environments themselves, and allow them to upload pictures and location data. This data can then be used by researchers to identify specific areas where more green space could help reduce flooding.
- **Users** – The app will be used by anyone interested in learning more about urban green spaces, however with more of a focus on high school students. These users are expected to be able to easily navigate a smartphone app. In the future the researchers hope that the app could be used in conjunction with a curriculum on the topic.
- **App Usage** – Students will work through a number of pages with descriptions and pictures of urban green infrastructure. After learning about the importance of this infrastructure, users can upload pictures of green spaces that they find themselves in. Users can also categorize what type of stormwater management the green space is. Researchers will have access to a database with the user uploaded pictures and categorization, with location data of where the picture is taken.
- **Data** –
 - Form data (green space research and education)
 - Photos (User uploaded)
 - Device GPS Coordinates
 - Classification Data