

CS411 Project Assignment 1 - Group 2

Safety App

Databases

- User Information - Friend contact information?
- Safety features of shelters
- Shelter information

Publicly available APIs (at least 2)

SOS/emergency alerts:

<https://www.programmableweb.com/api/noonlight-rest-api-v10>

Crime API: <https://www.crimeometer.com/crime-data-api>

Third-Party Authentication

- User log in

Decoupled Architecture: TBD

Description:

Boston University has experienced a surge in awareness regarding sexual assault and the absence of a feeling of safety while traveling through and around campus. There is a need for students to have access to some form of tool that will allow them to escape unsafe situations and to travel on campus with the knowledge that their safety is important.

An initial goal of our application is to use publicly available APIs to identify and route individuals to public, open “safe spaces.” A second goal would be the ability to have a “deadman’s switch” such that an individual can easily alert the authorities if they feel that they are in imminent danger. A tertiary goal will be to send a broadcasted help signal within a radius so that others who have downloaded this service will be notified if there is a need to provide assistance. A final quaternary goal is to allow an individual to request an escort while traveling between two places. This would ping other users of the service in the area and would pair the requester with an escort.

We will use the API’s that we listed in order to (1) contact the relevant authorities as needed and (2) to get updated crime statistics and incidence reports in order to guide users along the safest possible routes.

Coder Tinder App

Database:

- Engineer Information
- Client Information

Publicly available APIs (at least 2):

- LinkedIn: <https://www.programmableweb.com/api/linkedin>,
<https://www.linkedin.com/developers/apps/new>

- Github: <https://docs.github.com/en/rest/guides/getting-started-with-the-rest-api>

Third-Party Authentication:

- Authenticate with LinkedIn/Github (maybe?)
- User Log in

Decoupled Architecture: TBD

Description:

“It’s Tinder, but for programmers and projects.”

An app that matches clients with project ideas with suitable developers who would be interested in bringing those ideas to fruition. We want to make software development accessible to clients who may not have industry connections and/or software development know-how, so our application will help clients bridge the knowledge gap and translate their ideas into sets of tangible technical requirements. We will be using LinkedIn and Github APIs for developer resumes and past work projects/interests to help in matching clients with developers.