

# LionGPS

## Team Members

---

Jason Konikow uni: jk4057

Christopher Thomas uni: cpt2132

Billy Armfield uni: wsa2113

Luigi Pastore uni: lap2204

## Summary

---

Lion GPS will be an android application that provides directions for students to their given class' building. It will store previous destinations and a list of locations on campus supplied by the student to a user profile, and retrieve and mutate that information as the app is used. The directions will be generated by our usage of the Google Maps API. The app will also store a user's class schedule.

## Motivation

---

Often times when starting a new semester because of the sprawling nature of Columbia's campus it is common to have class in a building you are unfamiliar with. The aim of LionGPS is to eliminate the hassle of finding new buildings by providing easy to follow walking instructions from any point on campus, to any building one wants to find.

## User Stories

---

- Login/Authentication:** As a student I want a secure account so that I know my class and location data is safe from others.
- Routing:** As a student, I want to know where all my class buildings are. My conditions of satisfaction are that LionGPS will give me a route from my current location to the building of my choice.
- Destination History:** As a student, I want to see a "recent search" section. My conditions of satisfaction are that there is a section of the app showing my 10 most recent searches.

- **Map Overlay:** As a student, I want to see an overlay of where their classes reside atop a map of the Columbia campus, so I can have a handy visual reference of where all my classes and seminars reside.
- **Building Alias:** As a student, I want to be able to use the colloquial name of a Columbia building - or the SSOL building code - when finding directions, to avoid having to type the full address of a location on campus.
- **Auto-completion:** As a student, I want to start typing a location, and have the application show recommendations as I type, so I can save time.
- **Class Schedule:** As a student, I want an easy way to keep track of my classes. My conditions of satisfaction are that I can create a table of my classes and the buildings they are in, and will be able to retrieve this list after closing and re-opening the app.
- **Building Pages:** As a student, when I search for a building I want to be given a description and image of the building before navigating to it so that I know exactly