

# Sprint 1 Plan - GeoBus by Bus Squad (iOS)

Sprint 1 completion date is 10/21/2015. Revision 1 on 10/21/2015.

## Goals

- A working, basic UI that displays the position of one campus bus in realtime (or close to it, refresh rate ~5 seconds)
- Display a dot on the map that shows the user's current location.
- Show bus stop locations on the map.

## Task listing, organized by user story

- [2 points] As developers, we want to organize into two teams so that we have an iOS and Android team.
  - Split up the greater group into two teams, each with our own projects. [T. 1h]
  - Decide on meeting times. [T. 1h]
- [2 points] As a team, we want to meet with Kerry Veenstra, one of the Slugroute.com creators/maintaners, so that we can get the information we need for GeoBus.
  - Email Kerry so we can arrange for a meeting time. [T. 1h]
  - Have the meeting and record notes. [T. 1h]
- [2 points] As a user, I want to open the app and see a campus map and my current location so that I know where I am.
  - Get Google Maps API key and Xcode up and running. [T. 1h]
  - Ensure the user's current location is being displayed. [T. 1h]
- [3 points] As a user, I want to see bus stops on the map so that I know where the bus stops are.
  - Hardcode stops in or parse a JSON file that contains stops' coordinates. [T. 2h]
  - Display the stops using an appropriate icon. [T. 1h]
- [3 points] As a user, I want to tap on a bus stop and see a text box open up so that I can get more information on a particular bus stop.
  - Get a simple text box to display when a stop is tapped on. [T. 1h]
  - Have actual relevant information in the box, or at least the ability to place what we want in there. [T. 2h]
- [13 points] As a user, I want to see one bus on the map so that I know it's possible to see the current location of a bus and see more buses get added in the future.
  - Find, modify, and implement an XML parser for reading the XML file Slugroute.com uses. [T. 7h]
  - Make this information display in some manner, at least stored in some variable. [T. 4h]

- Use information stored in variables to make a drawable update at an appropriate interval on the map. [T. 3h]
- [8 points] As a user, I want to see an arrow on a bus so that I know what direction it's traveling in.
  - Using the latitude and longitude info from the XML file, slightly offset the latitude and longitude information so the arrow is in a seeable position. [T. 4h]
  - Either by defining ranges (8-way arrows) or using the distance formula in some way, display an arrow pointing in the direction of movement. [T. 4h]

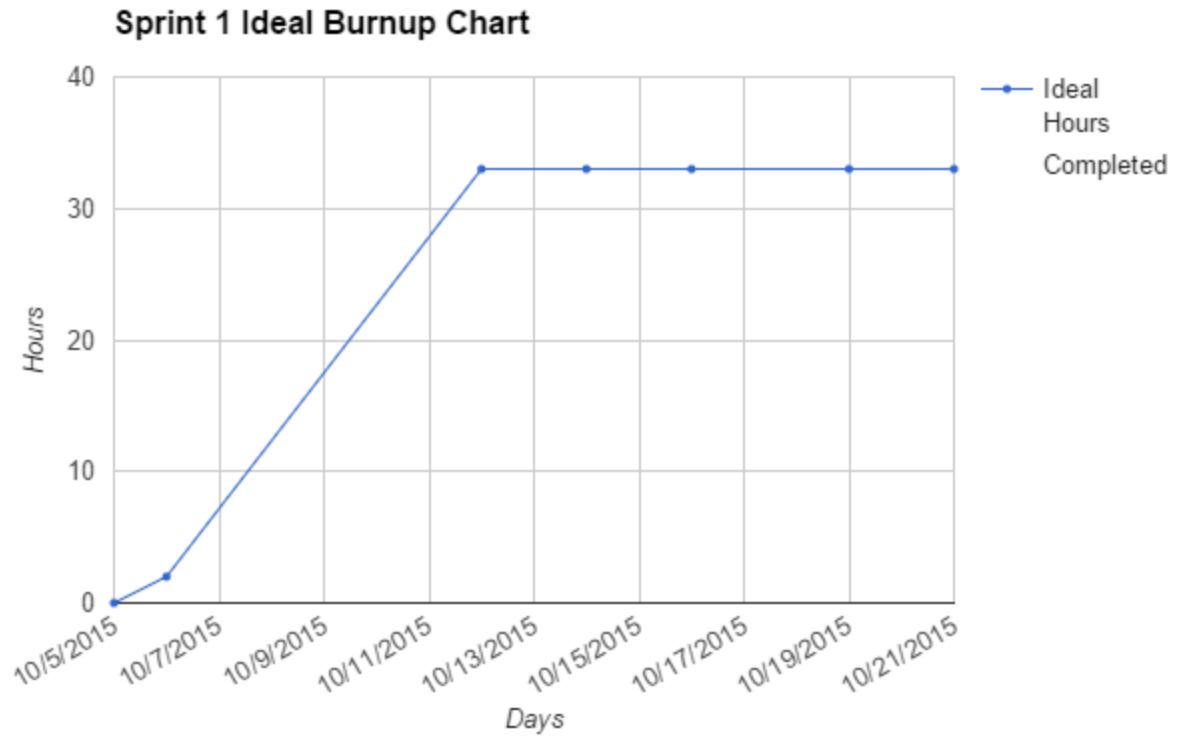
### Team roles

- Raquel Abrams: Product Owner/Designer/Developer
- Ivan Alvarado: Scrum Master/Developer
- Jose Lopez: Designer/Developer
- Michael Young: Designer/Developer
- Ahmad Tokhi: Designer/Developer

### Initial task assignment

- Ivan Alvarado/Michael Young/Ahmad Tokhi/Raquel Abrams/Jose Lopez:
  - As developers, we want to organize into two teams so that we have an iOS and Android team.
    - Decide on meeting times.
- Ivan Alvarado/Michael Young/Ahmad Tokhi:
  - As a user, I want to see one bus on the map so that I know it's possible to see the current location of a bus and see more buses get added in the future.
    - Find, modify, and implement an XML parser for reading the XML file Slugroute.com uses.
- Raquel Abrams:
  - As a user, I want to see bus stops on the map so that I know where the bus stops are.
    - Hardcode stops in or parse a JSON file that contains stops' coordinates.
- Jose Lopez:
  - As a user, I want to open the app and see a campus map and my current location so that I know where I am.
    - Get Google Maps API key and Android Studio up and running.
- Michael Young/Ahmad Tokhi:
  - As a user, I want to be able to interact with a basic (but pleasing) User Interface that's simple to understand and rich with information.
    - Design a UI and come up with catchy bus icons.

## Initial burnup chart



## Initial scrum board

See BE 316.

## Scrum times

MWF 12:15p, JBE 316