GeoBus

User Documentation

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Contents

This document is a guide to new GeoBus users. Its aim is to be a guide of how to install the application, and to be an example of how to use it.

As part of this document a user story will be followed step by step: "I, as a user, want to be able to see the UCSC loop buses on a map." Sections 1 (Installation Manual) and 2 (Use of the App) covers this user story.
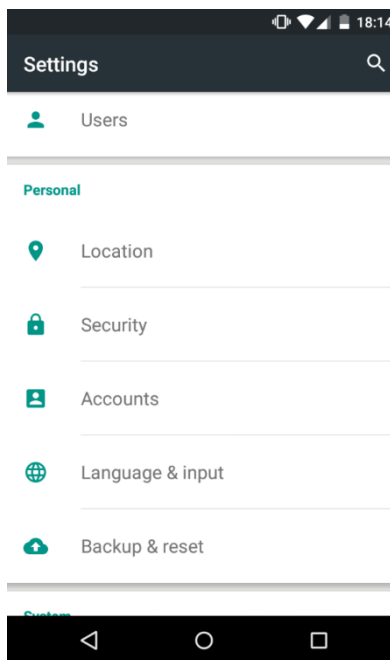
In order to use the app, first we need to install it.

Although the app is supported in devices running android versions higher that 4.4, this guide is meant for devices running android 5.x. For other android versions, check the "Android Versions" section of this document.
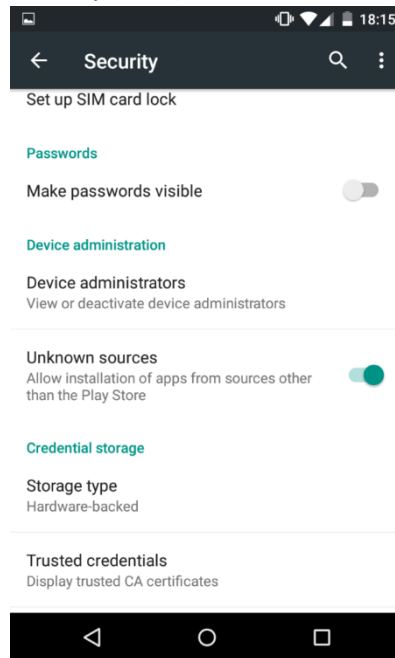
1. Installation Manual

Anyone who wants to install the app, needs to follow this steps:

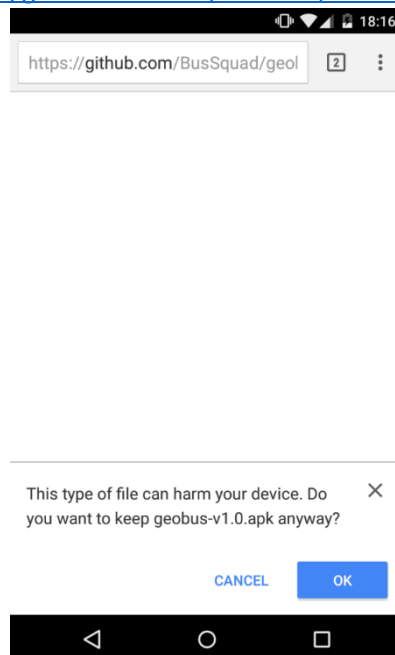- Step 1: Access the phone's settings, and open the "Security" menu.

- Step 2: Scroll down to the option "Unknown sources", and activate it (Allow installation of apps from sources other that the Play Store).

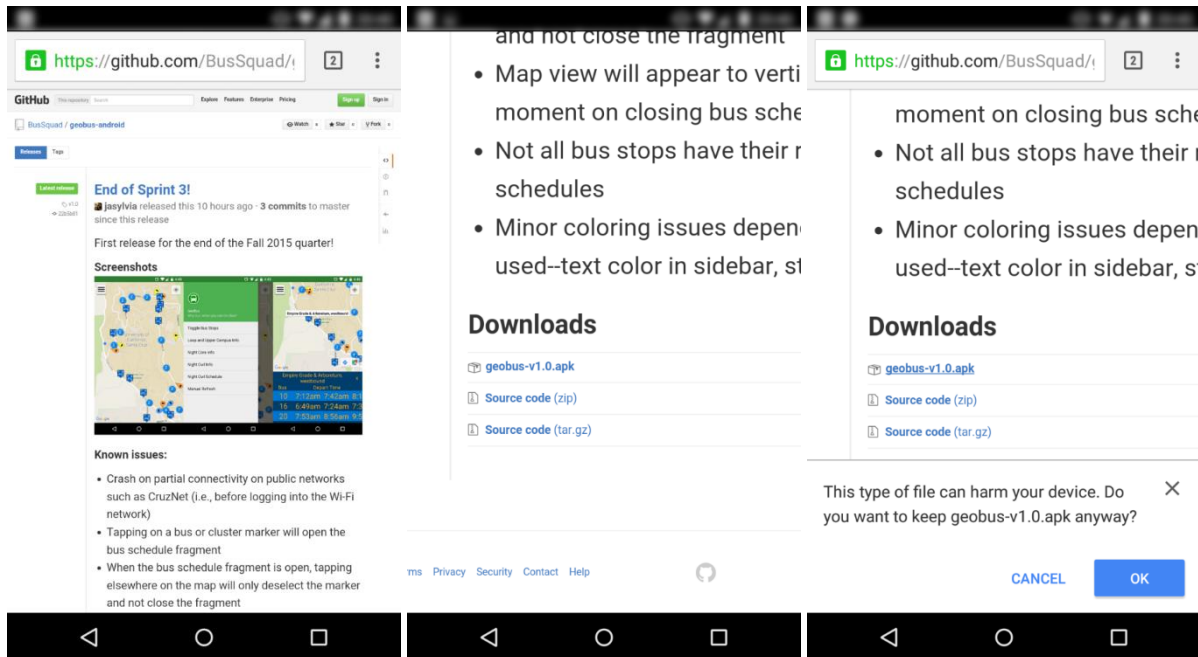

- Step 3 (a): Access the download link on the phone (type it in your web browser), and accept the download:
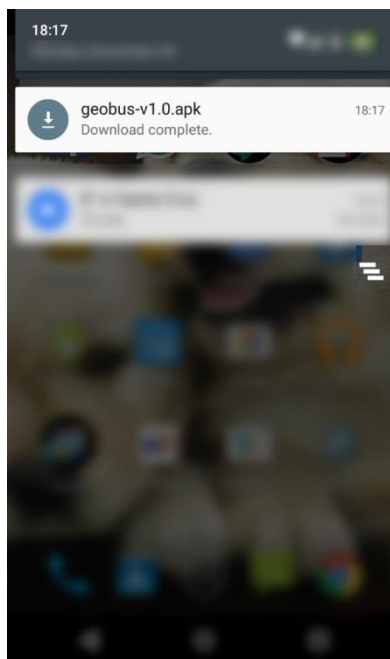https://github.com/BusSquad/geobus-android/releases/download/v1.0/geobus-v1.0.apk

- Step 3 (b): Instead of using the direct link, you can acces the github repository and download the latest version from there. Just follow the link and click on the latest version. Accept the download.
  https://github.com/BusSquad/geobus-android/releases/
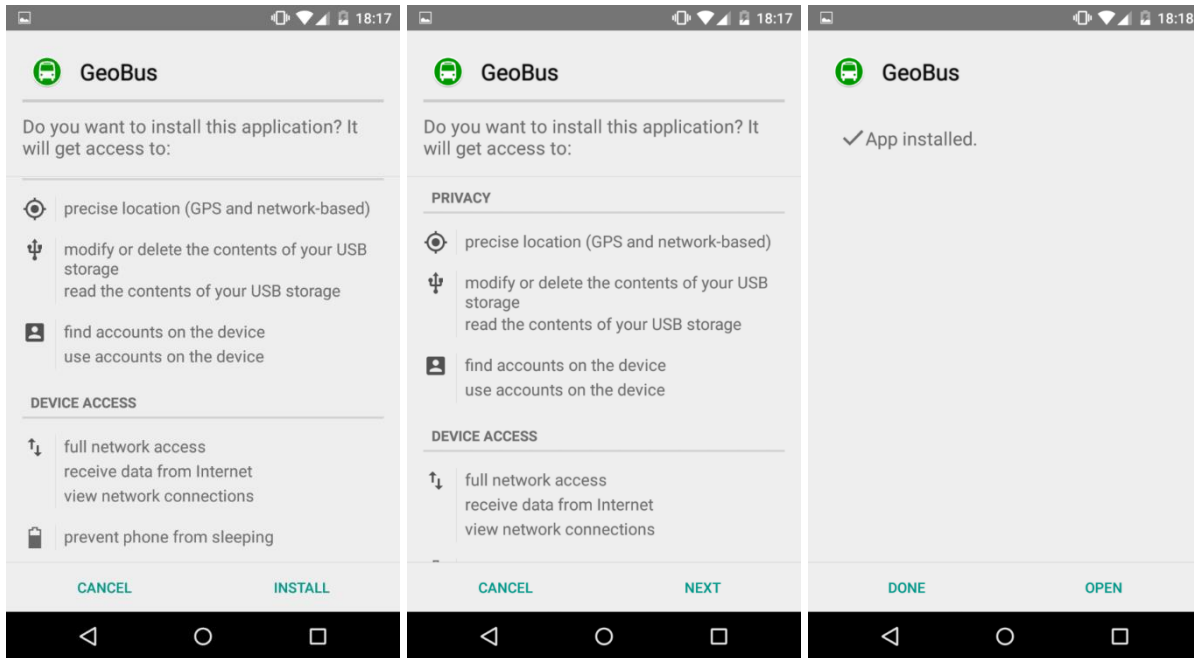

- Step 4: Open the notifications bar, and click on the .apk download when it has finished;
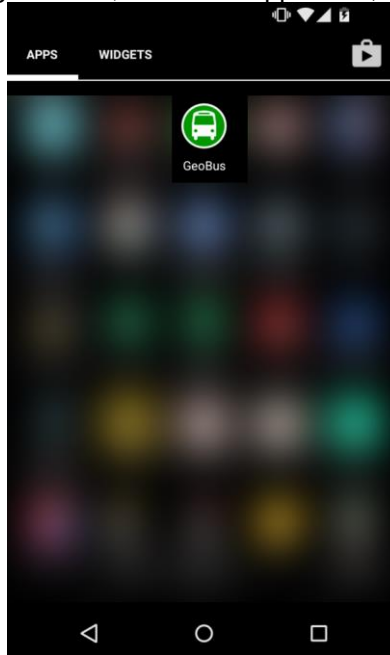
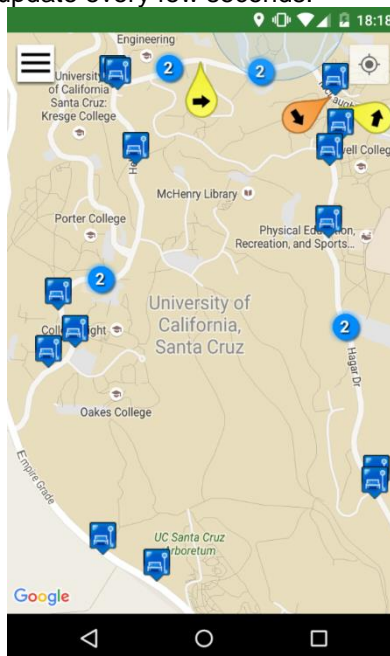- Step 5: Accept the installation of the app, and install it.

2. Use of the App

The main functionality of the app is to show where the loop buses are on campus, as well as the bus stops. Let's explore how we can use this functionality.
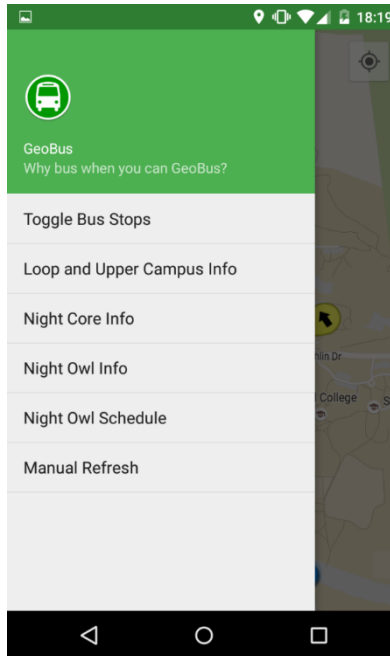
- Once the app has being installed, locate the app's icon, and open it.

- When the app opens, it displays the current loop busses on the UCSC campus, and the bus stops. Buses positions update every few seconds.

- To hide/show the bus stops, click on the icon on the top left corner (≡) to display the hamburger menu (you can also slide your finger from the left edge of the screen, towards the center of the screen).

- Select "Toggle Bus Stops" to hide/display the bus stops.

3. Other Uses

GeoBus has more functionalities than the ones already described. All this functions (except the "Locate User" function) can be accessed from the hamburger menu.
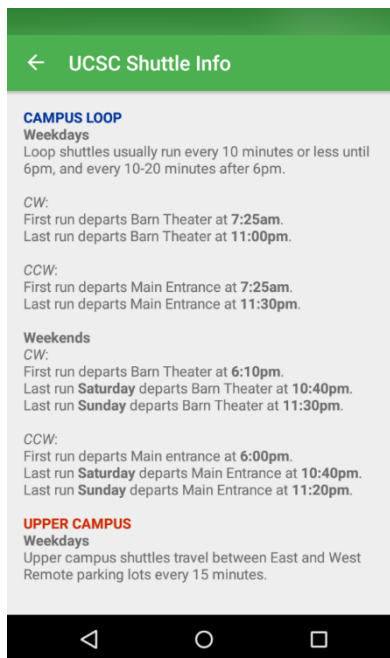
To go back to the map or exit any of this functionalities, click the back button (◁).

a. Locate User

When clicking the top right icon (◉) the map will be centered in the current user's position, to have a better idea of what bus stop/ bus is closer to the user.

b. Loop and Upper Campus Info

Shows information and schedules for loop and upper campus buses.
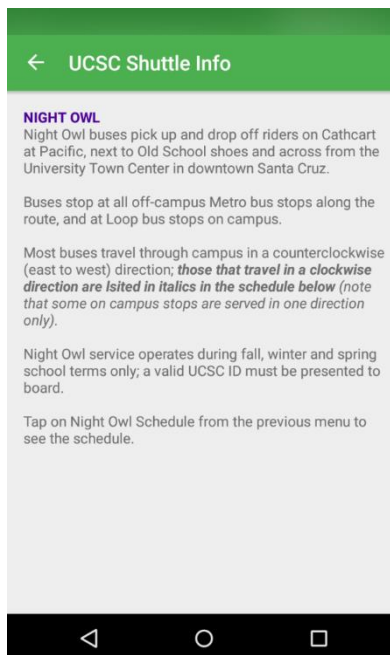
c.   Night Core Info

Shows information and schedules for night core buses.

d.   Night Owl Info

Shows information for the night owl buses.

e. *Night Owl Schedule*

Shows the night owl's schedule.

f. *Manual Refresh*

Refreshes the buses positions manually.
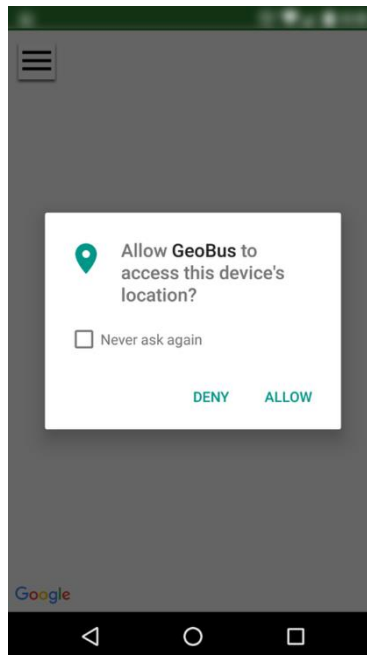
4. Android Versions

The app is officially supported in all android versions above 4.4.

a. *Android Marshmallow (6.0 and above).*

When first opening the app, the app will request access to the device's location. If it is not granted, some functionalities may not be available (such as "Locate User").

b. *Other Android versions (lower than 4.4)*

Not officially supported.

5. Further Development

This section is aimed to anyone wishing to continue developing this project.

a. What to do next

Some things that this app would benefit from having are:

- Fill all the incomplete data.
- Drawing the bus routes when clicked on a bus marker.
- Estimated time of arrival for buses when a bus stop is selected.
- Expand functionality for metro buses (first with estimated schedules, and the with real data)

b. What you need to know

Read carefully the description in the .java classes, and the comments in the code, to be able to understand it.

Reading the SQlite Database Documentation PDF document is a must, in order to understand how the data is stored and retrieved.