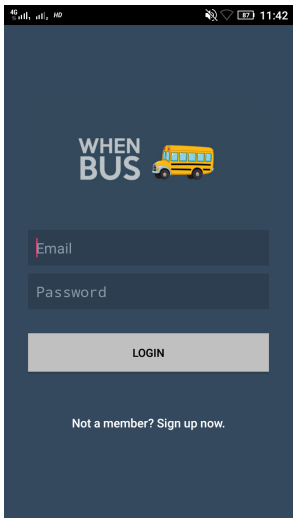
Android UI Documentation

April 2017

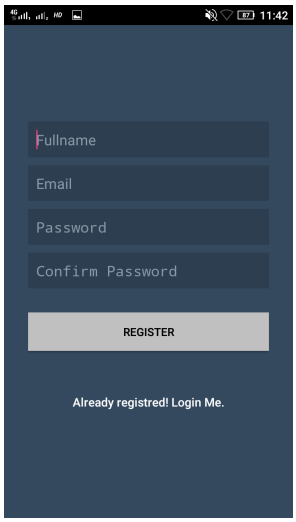
1 Introduction

This document gives an insight on the UI of the WhenBus software and its functionality.

2 Login & Register



(a) Login



(b) Register

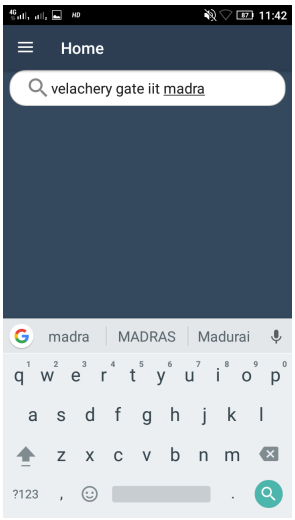
Login Page: It uses the login api, to authenticate user login.

- API :"https://cs3410-whenbus.herokuapp.com/users/login"
- Arguments: Email, password
- Response: Success, User profile, Error

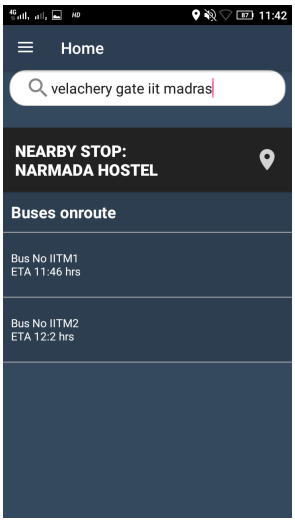
Register Page: It uses the register api to register new users.

- API : "https://cs3410-whenbus.herokuapp.com/users/register"
- Arguments: Name, Email, Password
- Response: Success, User profile, Error

3 Bus Query



(a) Query Destination



(b) Query Results

The Bus Query page allows user to query for a destination and it will list the available buses from the current location to the destination with the expected arrival time.

- API: "https://cs3410-whenbus.herokuapp.com/bus"
- Arguments: User location, Destination location
- Response:Success, Nearby bus stop, List of buses

4 Map: Nearby stop

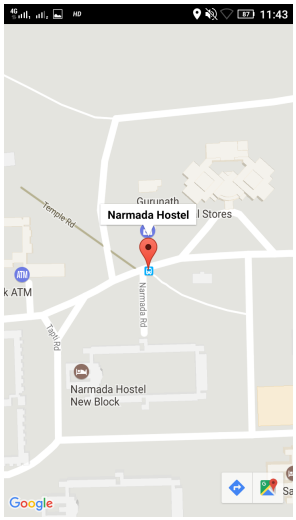
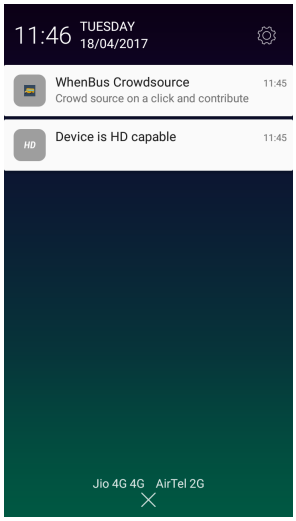


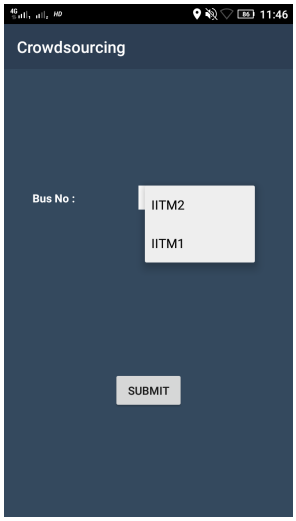
Figure 3: Nearby Stop

The nearby bus stop is marked on the map and directions can be fetched from google maps.

5 Speed Detect



(a) Speed Detect Notification

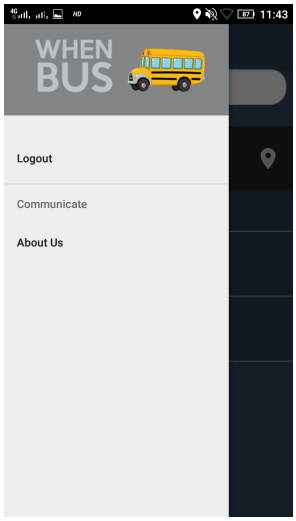


(b) Crowdsourcing

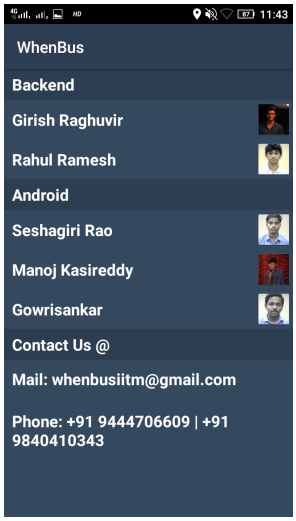
A background process is started once the user queries to detect his speed and check whether he/she boarded the bus or not. Once the speed is above a threshold, a notification is pushed which is linked to a crowdsourcing activity which uses the following:

- API: "https://cs3410-whenbus.herokuapp.com/heuristics"
- Arguments : User location, Boarded stop.
- Response : Success/Error

6 Navigation Bar & About Us



(a) Menu



(b) About us

The menu bar has Logout and About us activities.