Campus Go
Elaboration Document

Campus Go Shuttle Portal

Team Members:

214312674, Sithembile Ncube

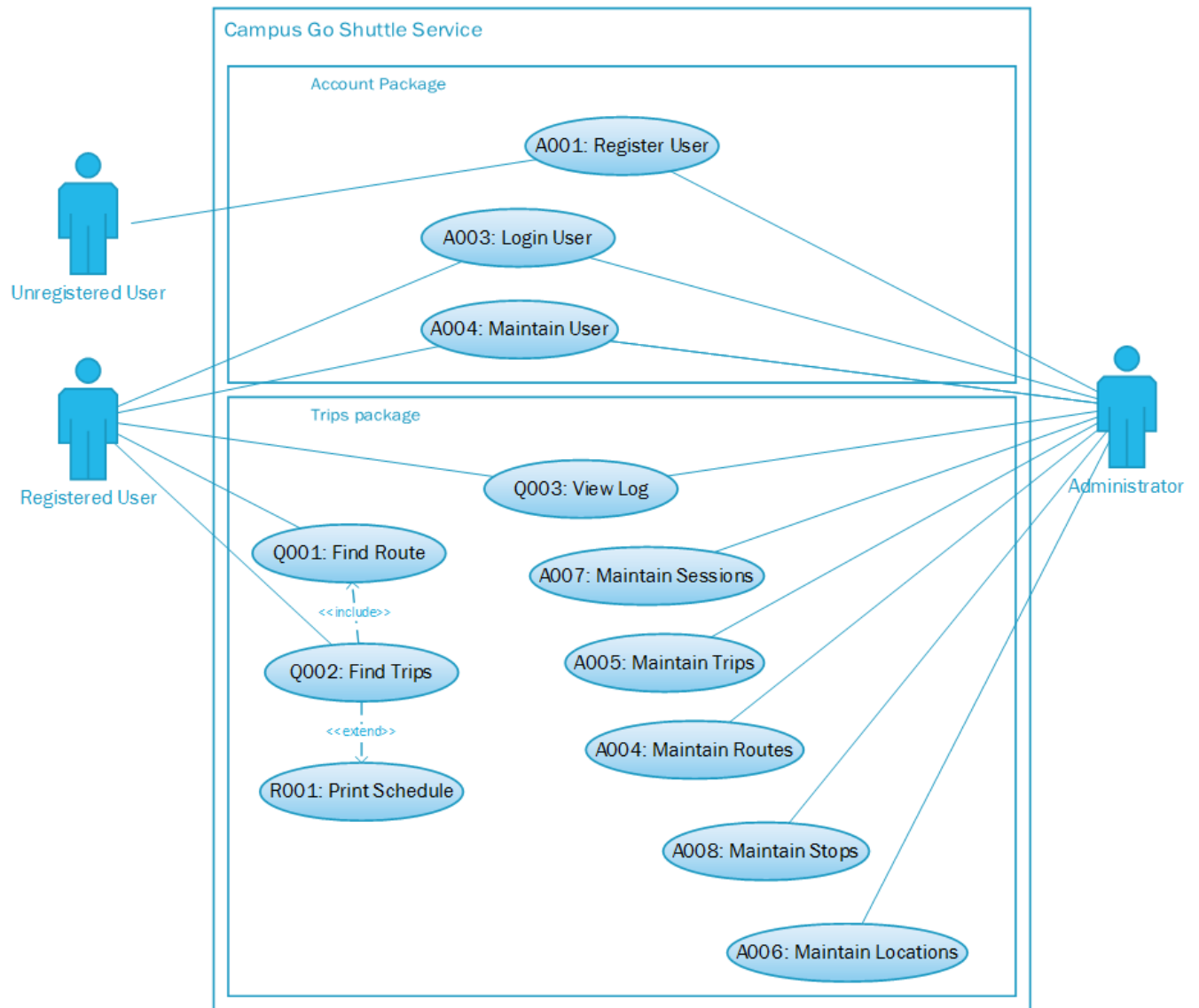214039846, Ndumiso Ndika

214251020, Siphato Krwempe

Document Due Date: 11th May 2017

TABLE OF CONTENTS

1   FUNCTIONAL REQUIREMENTS

1.1   Analysis Use Case Model

1.2 Use Case Glossary and Responsibilities

Team Member Responsible: Sithembile Ncube		
Use Case Id	**Use Case Name**	**Notes**
A001	Register User	Unregistered User is given access to the system
A002	Maintain User	Managing account details of registered user by registered user or administrator. (ie. Password changing, username changing and removing account)
A003	Log In	Provides access to registered users
Queries/Reports		
Q001	Find Route	Registered user searches for routes by start and end location. Result displayed on map
Q002	Find Trips	Registered user searches for trips at given times for specific routes. Results show in table.

Team Member Responsible: Ndumiso Ndika		
Use Case Id	**Use Case Name**	**Notes**
A004	Maintain Routes	Administrator adds, edits or deletes routes from the database.
A005	Maintain Trips	Administrator adds, edits or deletes trips from the database
Queries/Reports		
Q003	View Log	Allows viewing of a user's previously selected trips by registered user or viewing of all trips by administrator

Team Member Responsible: Siphato Krwempe		
Use Case Id	**Use Case Name**	**Notes**
A006	Maintain Locations	Administrator adds, edits or deletes locations from the database.
A007	Maintain Sessions	Administrator adds, edits or deletes sessions from the database
A008	Maintain Stops	Administrator adds, edits or deletes stops from the database
Queries/Reports		
R001	Print Schedule	For a queried route or trip, a schedule of all trips can be printed by a registered user.

2 UI Prototypes

2.1 Team UI Guidelines

2.1.1 UI style

Designmodo Flat UI style http://designmodo.github.io/Flat-UI/

Buttons

Primary Button	Warning Button	Default Button	Danger Button
Success Button	Inverse Button	Info Button	Disabled Button

Input

Inactive	Error	Success	Disabled

Dropdown   **Select**   **Tags input**

Default ▾   X-Men ▾   School Teacher Colleague

Navbar

Flat UI   Menu Item •   Messages ▾   About Us   Search 🔍
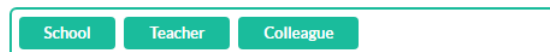
Progress bars & Sliders   **Navigation**

🕐 📷 ♥ 👁   ‹ All messages ›

‹ 1 2 3 4 5 6 7 8 ›
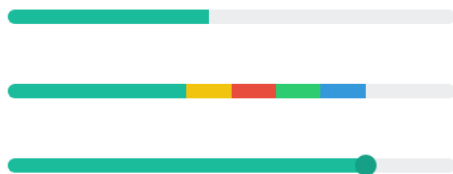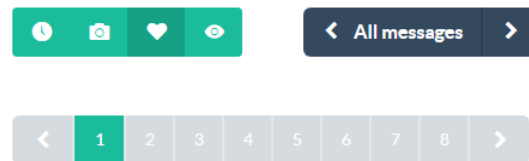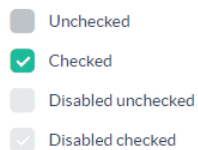
Checkboxes   **Radio Buttons**   **Switches**   **Share**

- ☐ Unchecked
- ☑ Checked
- ☐ Disabled unchecked
- ☑ Disabled checked

- ◯ Radio is off
- ◉ Radio is on
- ◯ Disabled radio is off
- ◉ Disabled radio is on

ON | OFF
✓ | OFF
ON | ON

Facebook OFF
Twitter ON
Pinterest OFF
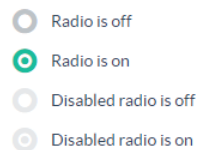
Share
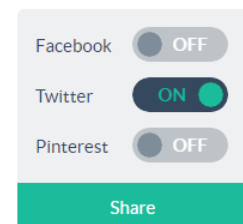
2.1.2 Fonts

- Raleway Medium for headings
- Open Sans for body and elements

The spectacle before us was indeed sublime.

Apparently we had reached a great height in the atmosphere, for the sky was a dead black, and the stars had ceased to twinkle. By the same illusion which lifts the horizon of the sea to the level of the spectator on a hillside, the sable cloud beneath was dished out, and the car seemed to float in the middle of an immense dark sphere, whose upper half was strewn with silver. Looking down into the dark gulf below, I could see a ruddy light streaming through a rift in the clouds.

2.1.3 Color scheme

- Navy Blue background and text
- Pelorous Blue and Sea Green elements
- Light Gray font
- Orange-Red accents

#383f51	#1d89ad	#37baaa	#dddbf1	#f1673c

COLORS

coolors.co/383f51-1d89ad-37baaa-dddbf1-f1673c
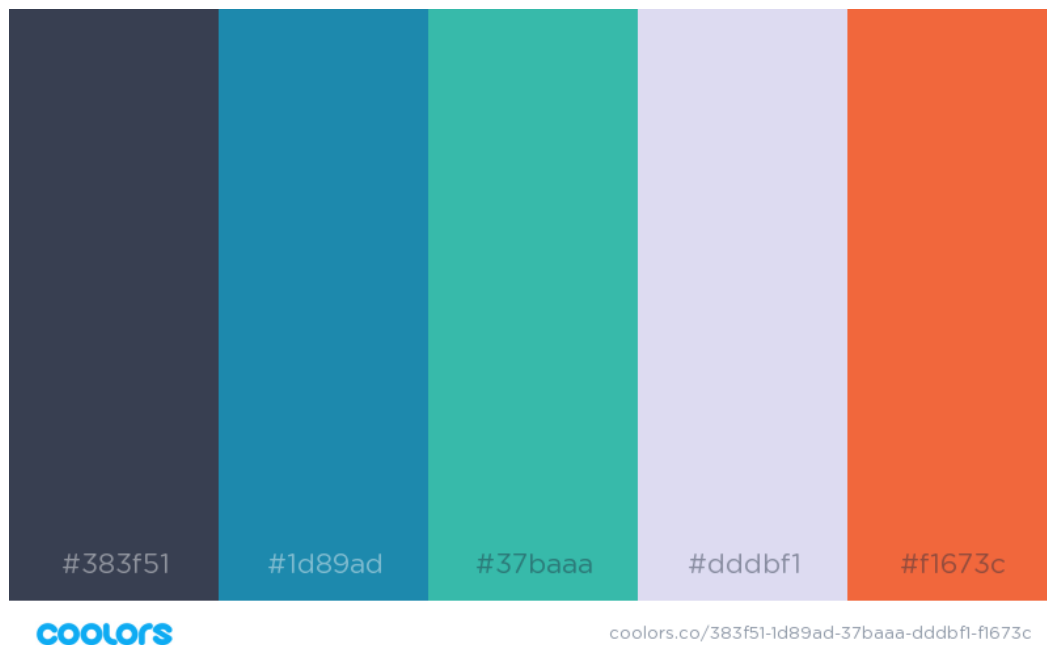
2.1.4 Icons

Font awesome glyphs contains a library of 675 free to use icons that can used as button, icons and animations on the web.
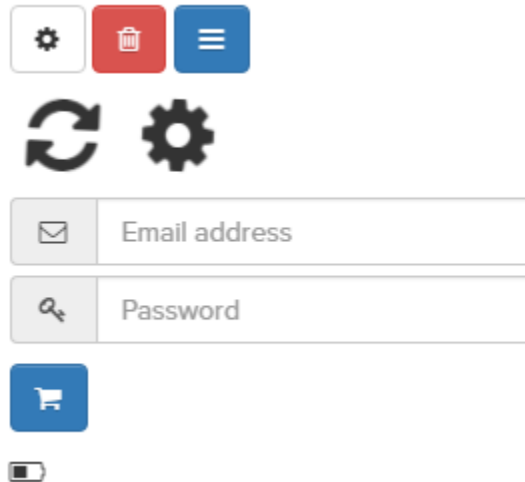
2.1.5 Notes
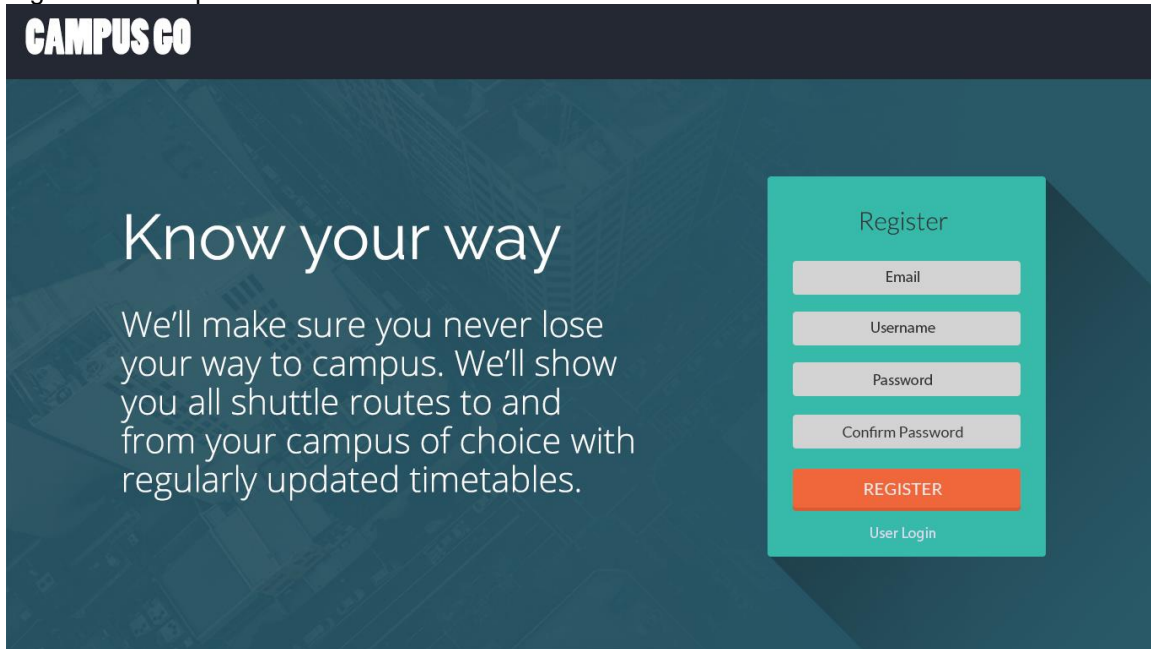
- Maintain a minimum number of screens containing all interactions. Recommended 3 or 4 screens overall.
- Use pop up messages and expanding interfaces where minimal changes will be made.
- Errors displayed with noticeable red highlight with error number contained.
- Accent color used on buttons, map pins and clickable elements.

2.2 UI Designs

2.2.1 Sithembile Ncube

2.2.1.1 A001: Register User
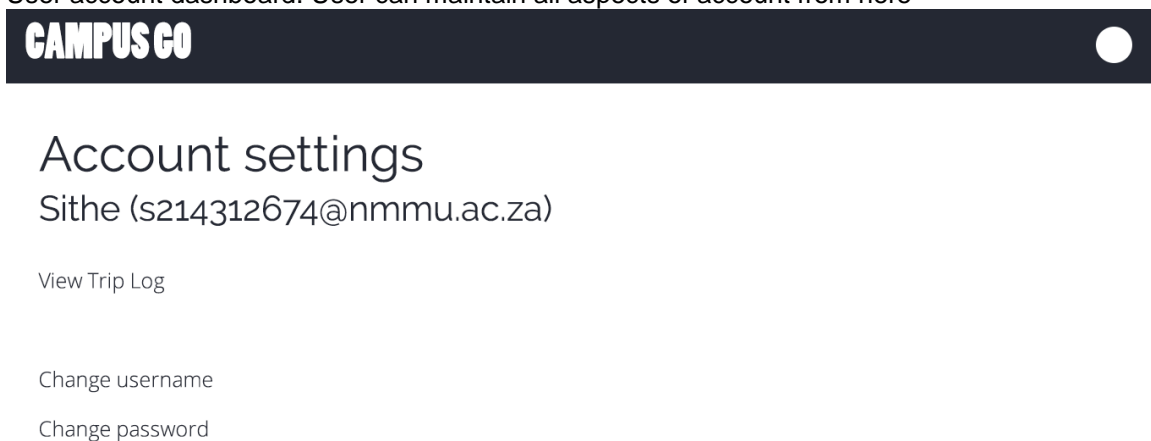
Home page contains registration/log in box on the right. No access to other screens until registration completed.

2.2.1.2 A002: Maintain User

User account dashboard. User can maintain all aspects of account from here

Below is an example of how the user interface will limit the number of screens by allowing UI elements or spaces to expand where only few elements require changing.

CAMPUS GO

Account settings
Sithe (s214312674@nmmu.ac.za)

View Trip Log

Change username

| Sithembile | CONFIRM |

Change password

An example of using red to highlight errors in the user interface. Also usually clickable elements have been muted as the element will not provide a result when clicked since the password does not meet the required standards.

CAMPUS GO

Account settings
Sithe (s214312674@nmmu.ac.za)

View Trip Log

Change username
Change password

| **** | CONFIRM |

PASSWORD MUST BE AT LEAST 6 CHARACTERS

2.2.1.3 **A003: Log In**

Same as Home page and registration page

2.2.1.4 **Password recovery pop-up**

Pop up messages will appear in this manner. With the rest of the screen muted and the pop up displayed in the center with a bright call to action button.

2.2.1.5 **Admin Dashboard**

Maintenance of trip data and users will be accessed from the administrators dashboard

2.2.1.6 **Q001: Find Routes**

Simple drop down selections to choose departure and arrival slots.

2.2.1.7 Q002: Find Trips

DEP	ARR	STOPS
9:45	10:15	Gomery Avenue, Forest Hill
13:00	13:30	-

EXPORT AS PDF
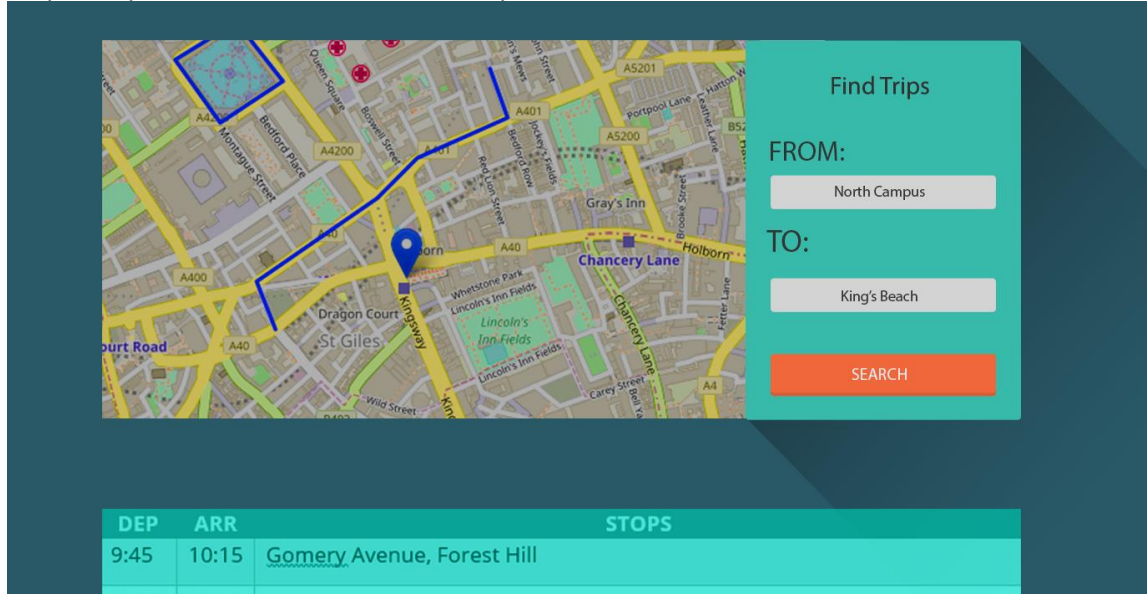
2.2.2   Ndumiso Ndika

2.2.2.1   **A004: Maintain Routes**

All maintenance of routes, stops, sessions, trips and locations will be done from a single screen. Upon selection of field to edit/add, the screen below the selection will change to show the necessary elements to the user.

2.2.2.2   **A005: Maintain Trips**

Trip data displayed in table and highlighted trip is selected for editing.

2.2.2.3 Q003: View Trip Log

A trip log is displayed for a single user. Administrators will be able to view all trips if user is not specified.

2.2.3 Siphato Kwrempe

2.2.3.1 A006: Maintain Location

Allows for adding and editing a location. When 'Edit' is selected a list of existing locations is displayed a location can be selected from this list for editing.

CAMPUS CO

SELECT FIELD TO MAINTAIN

EDIT ▼   LOCATION

SUMMERSTRAND ⊗   SUBMIT

LIST OF LOCATIONS SHOWN HERE. HIGHLIGHTED OPTION TO BE EDITED

CENTRAL
NORTH END
WALMER
SUMMERSTRAND

2.2.3.2 A007: Maintain Session

CAMPUS CO

SELECT FIELD TO MAINTAIN

EDIT ▼   SESSION

DATE   START TIME   END TIME   SUBMIT

LIST OF SESSIONS SHOWN HERE. HIGHLIGHTED OPTION TO BE EDITED

05/09/2017	09:00	09:30
05/09/2017	14:00	14:30
05/09/2017	17;00	17:30
05/10/2017	07:45	08:15

2.2.3.3 **A008: Maintain Stop**

2.2.3.4 **R001: Print Schedule**

Step1: Below trip table, user clicks 'Export as PDF'

Step 2: Schedule loads in default PDF viewer and can be downloaded or printed

3   DATA REQUIREMENTS

3.1   Domain Class Diagram
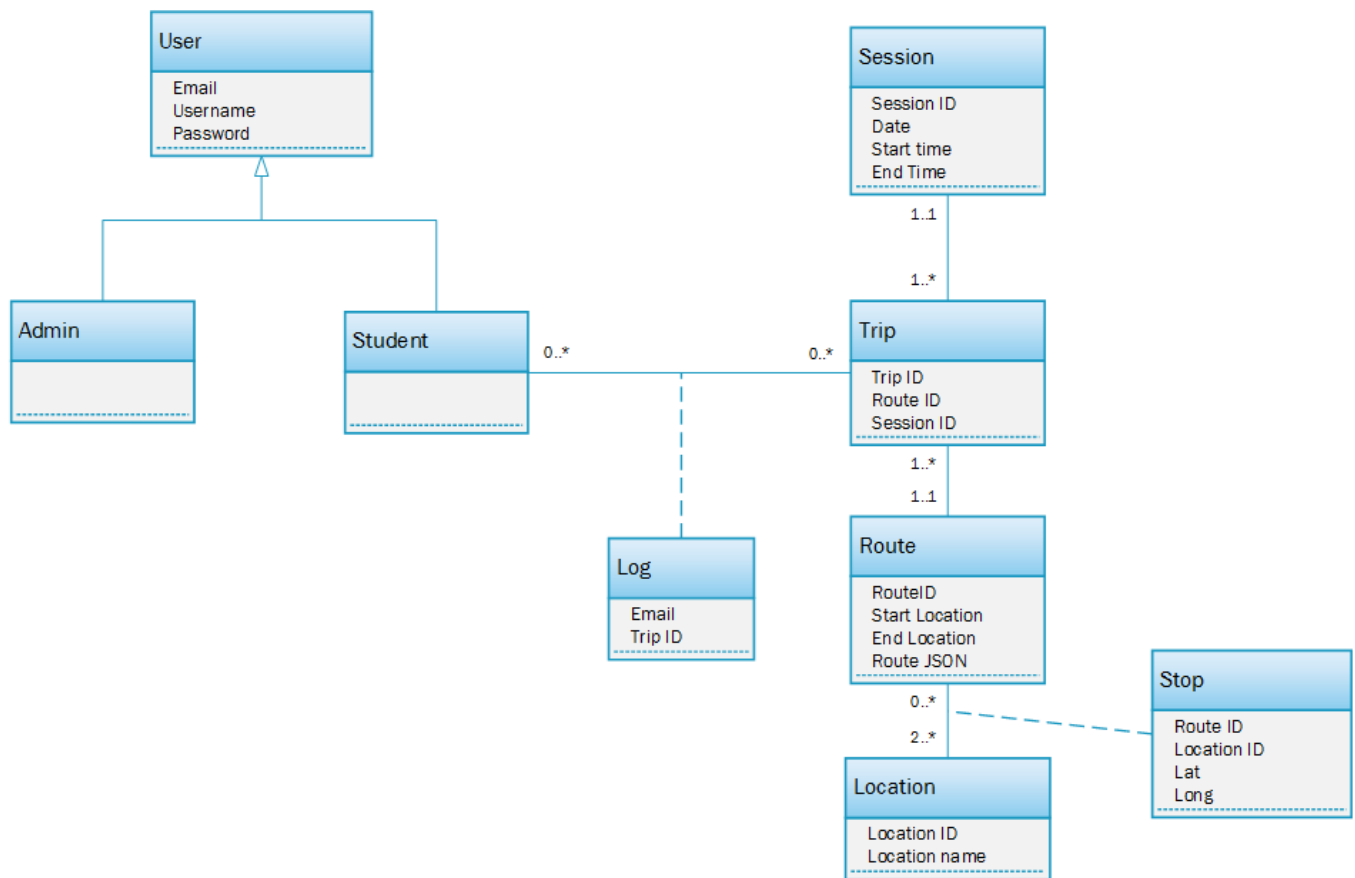
3.2 Implementation Ready Class Diagram