UP Bike Share – Android App

Use Case Specification

Submitted to:

Prof. Ma. Rowena C. Solamo
Faculty Member
Department of Computer Science
College of Engineering
University of the Philippines, Diliman

Submitted by:
Barozzo, Steven
Mamac, Mark Anton
San Gabriel, Jaypee Renz

In partial fulfillment of Academic Requirements
for the course
CS 191 Software Engineering I
of the
1st Semester, AY 2015-2016

Unique Reference:

The documents are stored in:
https://github.com/devsofup/UPBike-Share-Android/tree/master/01-Project-Documents

Document Purpose:

This document serves to detail the structure of the Bike Share project's main functionalities or use cases and how they work, without too much detail on the software implementation. This will serve as the agreement between the client and the developers as to how each of the functionalities will work. This will also guide the developers as to what are the most important aspects of the application.

Target Audience:

This document is mainly for the viewing of the client and the development team. It will also be viewed by the guiding faculty.

Revision Control

History Revision:

Revision Date	***Person Responsible***	***Version Number***	***Modification***
09/17/15	Jaypee San Gabriel	0.5	Placed description, preconditions, postconditions, relationships and special requirements for each use case.
09/18/15	Jaypee San Gabriel Steven Barrozo	1.0	Complete rough draft. Created activity flow and activity diagrams for each use case.

Use-Case Name: Use-Case 2.0 Register Account

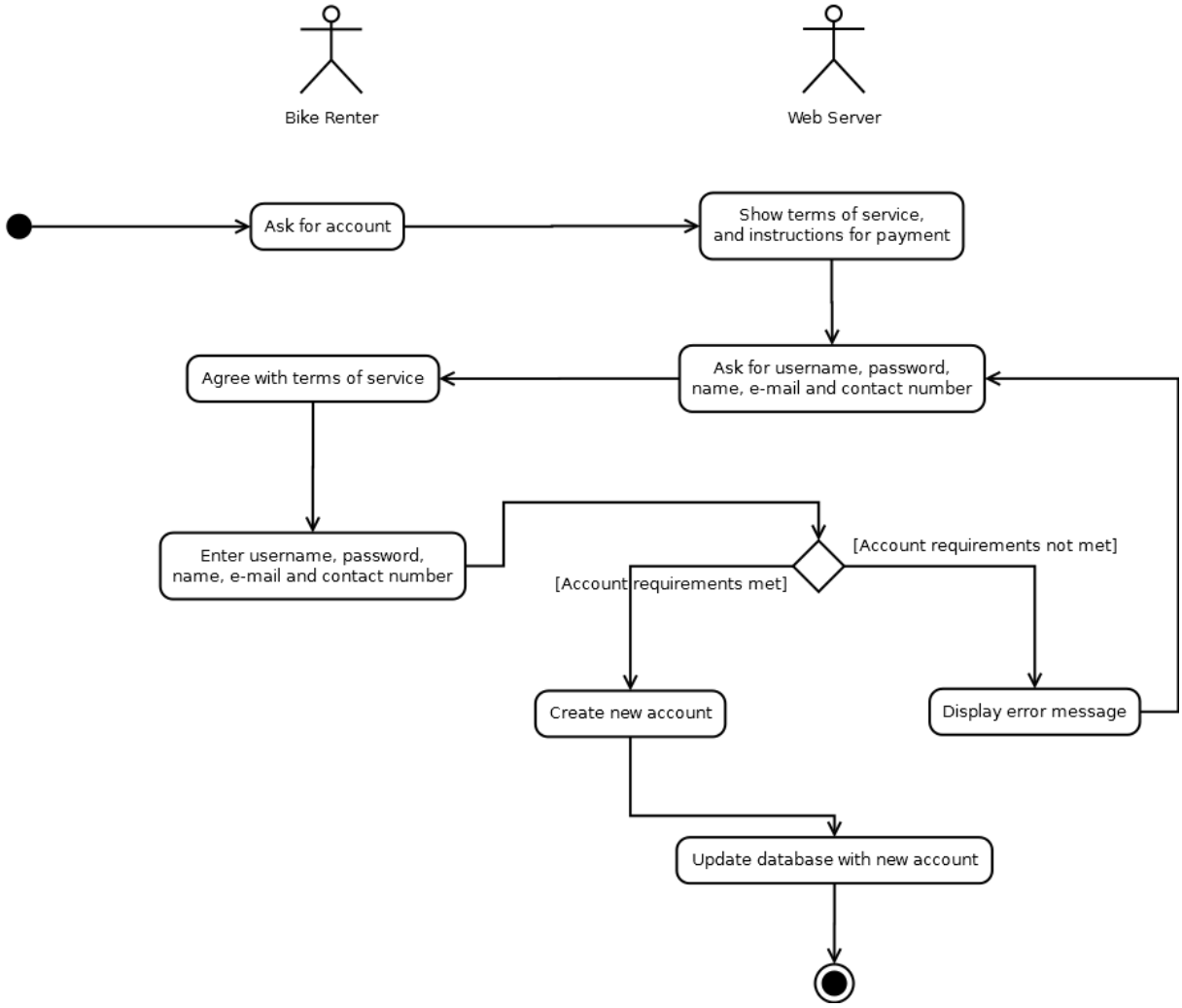
Description: Anyone can register for an account and become a Bike Renter. They can also register for bike lessons. They will be given instructions on how to pay for the service of Bike Share.

Preconditions: NONE

Flow of Events:

Scenario Name	***Description***
Scenario 1 (Basic Flow) A Bike Renter registers for an account.	1. The Bike Renter asks the system for an account. 2. The system presents the terms of service, along with instructions for payment. 3. The Bike Renter agrees with said terms and regulations. 4. The system prompts the Bike Renter to enter a username and password for their account, along with their name, e-mail, and contact number. 5. The Bike Renter enters a username and password for their account, along with their name, e-mail and contact number. 6. If all the requirements of the username and password are met, the Bike Renter's new account is made. 7. The Web Server updates the user database with the new account.
Scenario 2 (Registration Error) A Bike Renter registers for an account, but requirements for the username and password are not met.	1. The Bike Renter asks the system for an account. 2. The system presents the terms of service, along with instructions for payment. 3. The Bike Renter agrees with said terms and regulations. 4. The system prompts the Bike Renter to enter a username and password for their account. 5. The Bike Renter enters a username and password for their account, along with their name, e-mail and contact number. 6. If all the requirements of the username and password are not met, the system presents an error message, and the flow trails back to step 4 of the scenario basic flow.
Scenario 3 (Connection Error)	1. If at any time in the basic flow, there is no connection with the Web Server, the system will display a Connection Error.

Activity Diagram of the Flow of Events:



Postcondition: NONE

Relationships: For a Bike Renter to be able to use the Log-In Account use case successfully, he/she must have registered an account through this use case. The Web Server which holds the database will then add the newly-registered Bike Renter to the list of users with accounts.

Special Requirements:

NONE