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:
Barrozo, 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/02-Requirements-Engineering

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.

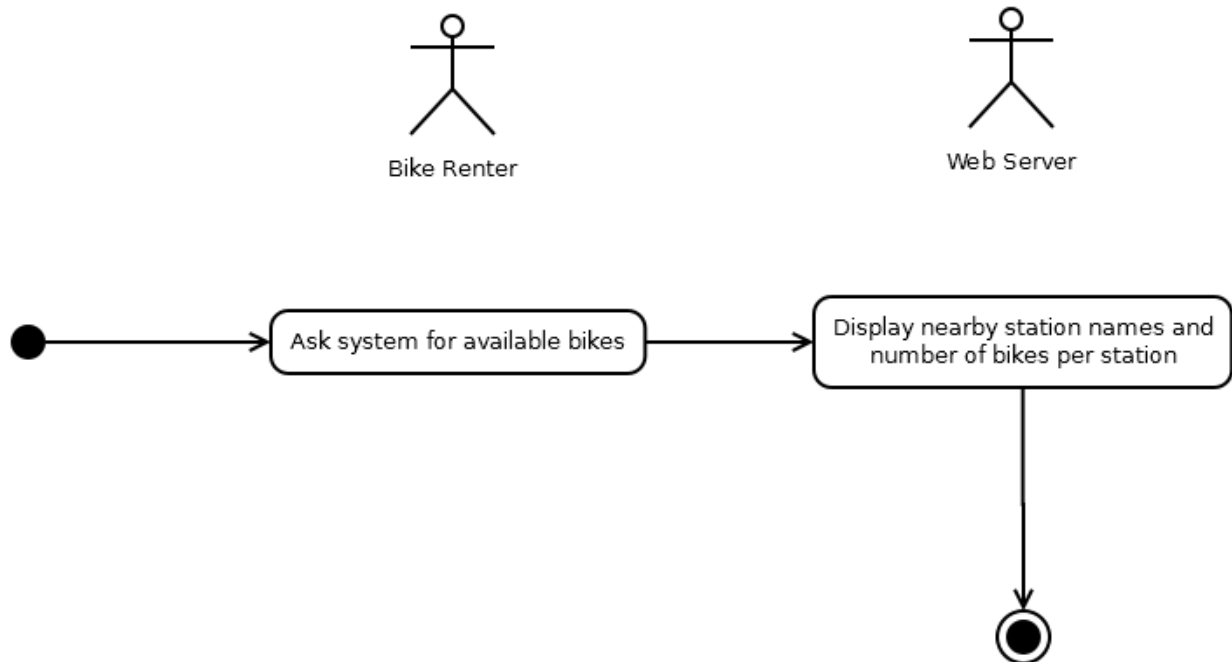*Use-Case Name*:   Use-Case 4.0 Search Available Bikes

Description: A Bike Renter can request a list of available bikes for use. Using data from the Web Server, the system can produce a list of nearby bikes and their location. The number of available bikes per station will be shown.

Preconditions: The Bike Renter is 'Logged In.'
There is a working connection with the Web Server.

Flow of Events:

Scenario Name	Description
Scenario 1 (Basic Flow) The Bike Renter searches for available bikes.	1. The Bike Renter prompts the system to search for available bikes. 2. Using data from the Web Server, the system displays nearby station names and produces the number of available bikes per station.
Scenario 2 (Connection Error)	1. If at any time in the basic flow, the connection with the Web Server is lost, the system will display a Connection Error, and log out the current user.

Activity Diagram of the Flow of Events:

Postcondition: NONE

Relationships: NONE

Special Requirements:
Physical devices for tracking associated with the bikes function properly.