UP Bike Share – Android App

Use Case Specification

Submitted to:

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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 8.0 Report Bike Issue

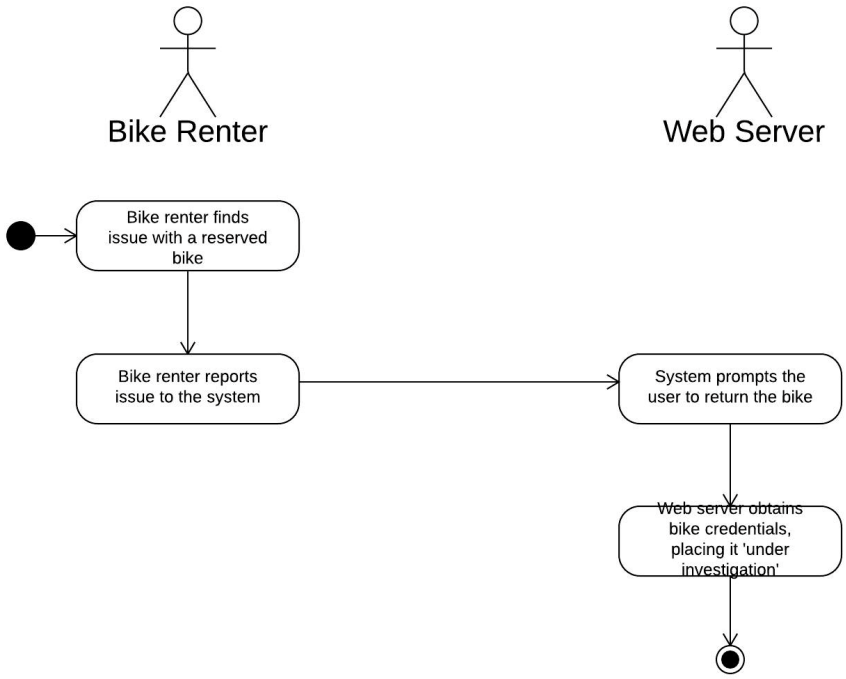
Description: While logged in, a Bike Renter can report any issues encountered with a reserved bike. Bikes reported such will be automatically locked once returned to a station. These bikes will be marked 'Under Investigation' while not yet checked, then be labeled 'Invalid' if a problem is confirmed.

Preconditions: The Bike Renter reserved a bike through the Reserve Bike use case.
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 reports an issue with a bike, and returns it to a station.	1. The Bike Renter finds an issue with a reserved bike. 2. The Bike renter reports the issue to the system, detailing the bike number, and the problem with the bike. 3. The system prompts the user to return the bike to a station. 4. The Web Server obtains the bike number and the bike's new location then updates the database, placing the respective bike as 'Under Investigation.'
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: The respective bike is automatically locked upon returning it to a location.

Relationships: Upon using this use case, the Update Bike Status use case will also be used by the Web Server in order for the bike data to still be accurate.

Special Requirements:

Physical devices for tracking associated with the bikes function properly.