UP Bike Share – Android AppUse Case Specification

Submitted to:

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System: UP Bike Share – Android App Page 1
Version: 1.0 Page 1
Group: Team S+

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.

System: UP Bike Share – Android App Page 2
Version: 1.0 Page 2
Group: Team S+

Use-Case Name: Use-Case 6.0 Lock Bike

Description: After a Bike Renter has rented a bike and reached a destination, he/she can lock the

bike at a safe location. This will be done through the Bike Share module, allowing the

Web Server to update its data.

Preconditions: The Bike Renter reserved a bike through the Reserve Bike use case.

The Bike Renter is 'Logged In.'

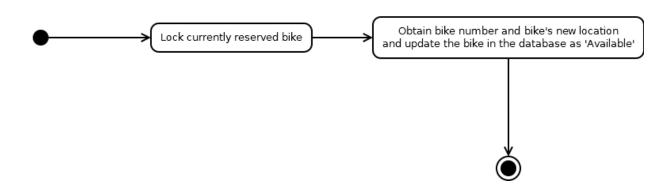
There is a working connection with the Web Server.

Flow of Events:

Scenario Name	Description		
Scenario 1 (Basic Flow) The Bike Renter locks his	 The Bike Renter prompts the system that he/she will be locking his/her reserved bike at a station. 		
reserved bike.	2. The Web Server obtains the bike number and the bike's new location then updates the database, placing the respective bike as 'Available.'		
Scenario 2 (Connection Error)	 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 will be marked as 'Available.'

Relationships: Upon using this use case, the Sync Data with Server use case will also be used in

order for the bike data to still be accurate.

Special Requirements:

Physical devices for tracking associated with the bikes function properly.

System: UP Bike Share – Android App Page 3
Version: 1.0 Page 3
Group: Team S+