

# **UP Bike Share – Android App**

## **Use Case Specification**

Submitted to:

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for the course  
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**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:*

<b>Revision Date</b>	<b>Person Responsible</b>	<b>Version Number</b>	<b>Modification</b>
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 9.0 Update Bike Status

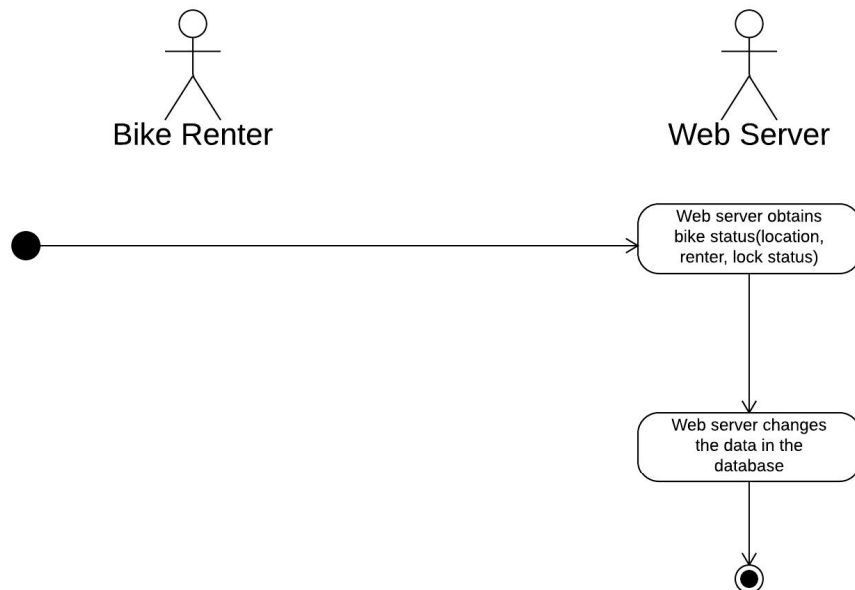
**Description:** The Web Server is tasked with updating the statuses of bikes such as their location, whether they are locked or not, the user that is renting it (if applicable), their ID and more. The Web Server updates the statuses of bikes whenever it processes a request from a bike renter such as locating bikes, renting bikes and locking bikes.

**Preconditions:** NONE

**Flow of Events:**

Scenario Name	Description
Scenario 1 (Basic Flow) The Web Server updates the bikes' statuses.	1. The Web Server obtains the necessary information such as location and state to change from another corresponding use case (Reserve Bike, Lock Bike, Report Bike Issue) and the id of the bike that will change status. 2. The Web Server changes the respective data in the database.

**Activity Diagram of the Flow of Events:**



**Postcondition:** NONE

**Relationships:** Used to present accurate data in the Search Available Bikes and Reserve Bike use

cases.

***Special Requirements:***

Physical devices for tracking associated with the bikes function properly.