UP BikeShare Web Server

Use Case Diagram

Submitted to:

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

Submitted by:
Kirzten Cassielle N. Marquez
Carlos Daniel S. Peñaflorida
Alezon Maxine G. Valerio

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

Unique Reference:

All documents are stored in https://github.com/team-mvp/UP-BikeShare-Project.
This document can be found in https://github.com/team-mvp/UP-BikeShare-Project/blob/master/02-Requirements-Engineering/UP%20BikeShare%20Web%20Server%20-%20Use%20Case%20Model.pdf.

Document Purpose:

This document aims to show the actors and functions involved in the BikeShare web server.

Target Audience:

UP BikeShare administrators

Revision Control

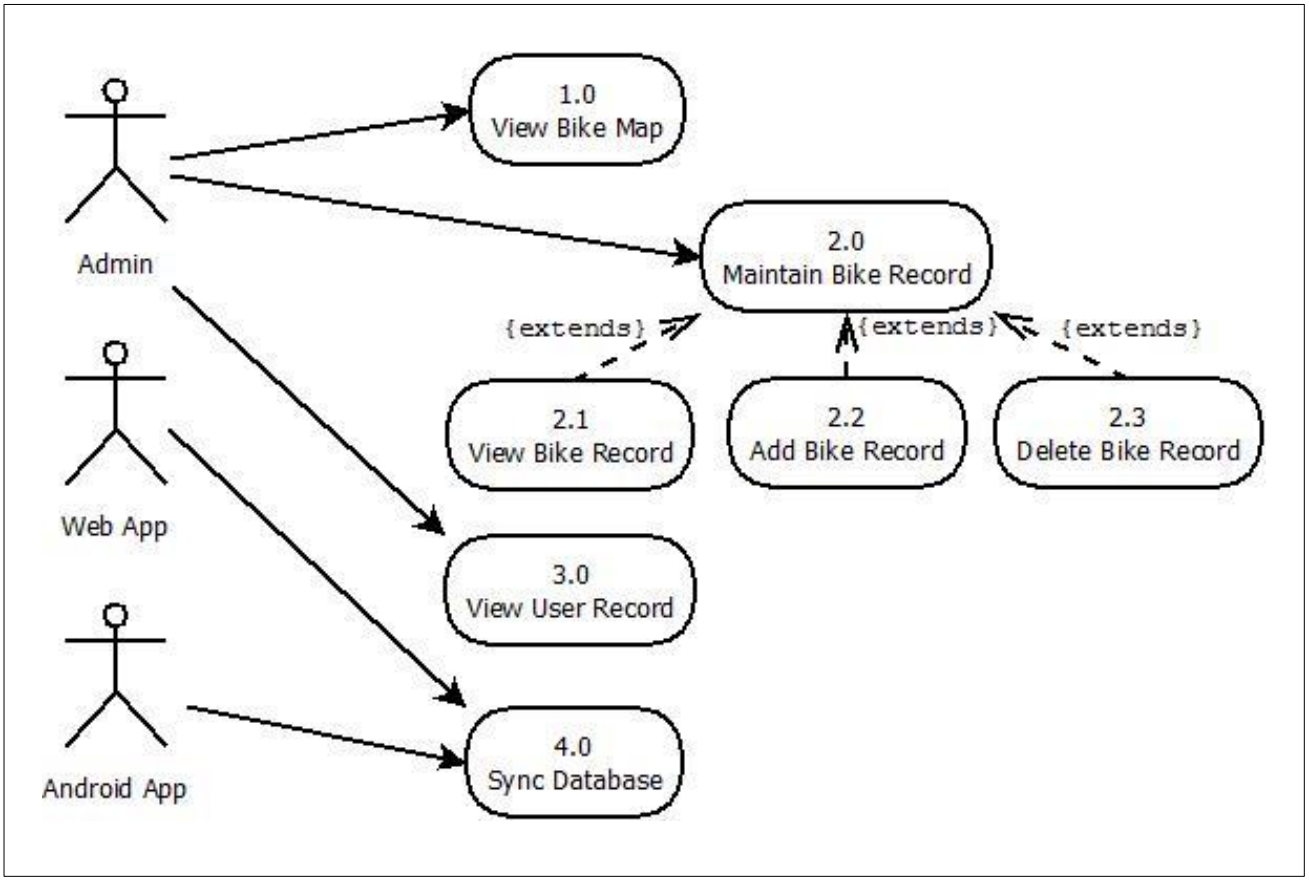
History Revision:

Revision Date	***Person Responsible***	***Version Number***	***Modification***
09/18/15	Kirzten Marquez	1.0	Initial Document.
09/25/15	Kirzten Marquez	2.0	Revised the use case model. Added additional descriptions.

System Name: UP BikeShare Web Server

Description: This project focuses on the back end of the UP BikeShare web application. It includes the majority of the main database interactions, administrative processes and commands, and overall analytics. It will have a simple interface prioritizing accessibility to functionalities and content over user aesthetics and the like.

Use-Case Diagram:



List of Actors:

Actors	***Description***
Administrator	The admin is the one that supervises everything in the project. They have to have access to every record of users and bikes involved.
Web App	The web app gives bikeshare users access to functionalities involving the bikes (e.g. reserve a bike, find available bikes) and the admin (e.g. pay admin, report defective bikes). Any user transactions would need to be saved in the web server for the admin to see.
Android App	Like the web app, the android app would need to be in sync with the web server's database for any changes done by the users.

List of Use-cases:

Use-Case	***Description***
Use-Case 1.0 View Bike Map	This is a feature that allows the admin to track where individual bikes are located. This would be useful to check when a bike is reported to be lost or to determine the demand of bikes in a certain place.
Use-Case 2.0 Maintain Bike Record	This is a functionality for the admin that gives access to the bikes' records and gives him the ability to add, remove, or view them.
Use-Case 2.1 View Bike Record	An admin may view a bike's specifications. This is an essential function since the whole project is centered at the bikes. Any problems with the bike should be reflected in its record.
Use-Case 2.2 Add Bike Record	Depending on user demands, the admin can include additional bike records and collect data from the bike modules.
Use-Case 2.3 Delete Bike Record	The admin can delete a bike record once a bike is no longer functional or is being repaired.
Use-Case 3.0 View User Record	Admin must be able to view any of the users' records including their profiles and their corresponding transactions made.
Use-Case 4.0 Sync Database	The web server only accepts requests from the web and android applications so syncing databases (in real-time) would allow any changes/transactions made by the users be reflected to their user records.