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 3.0 Log-In Account

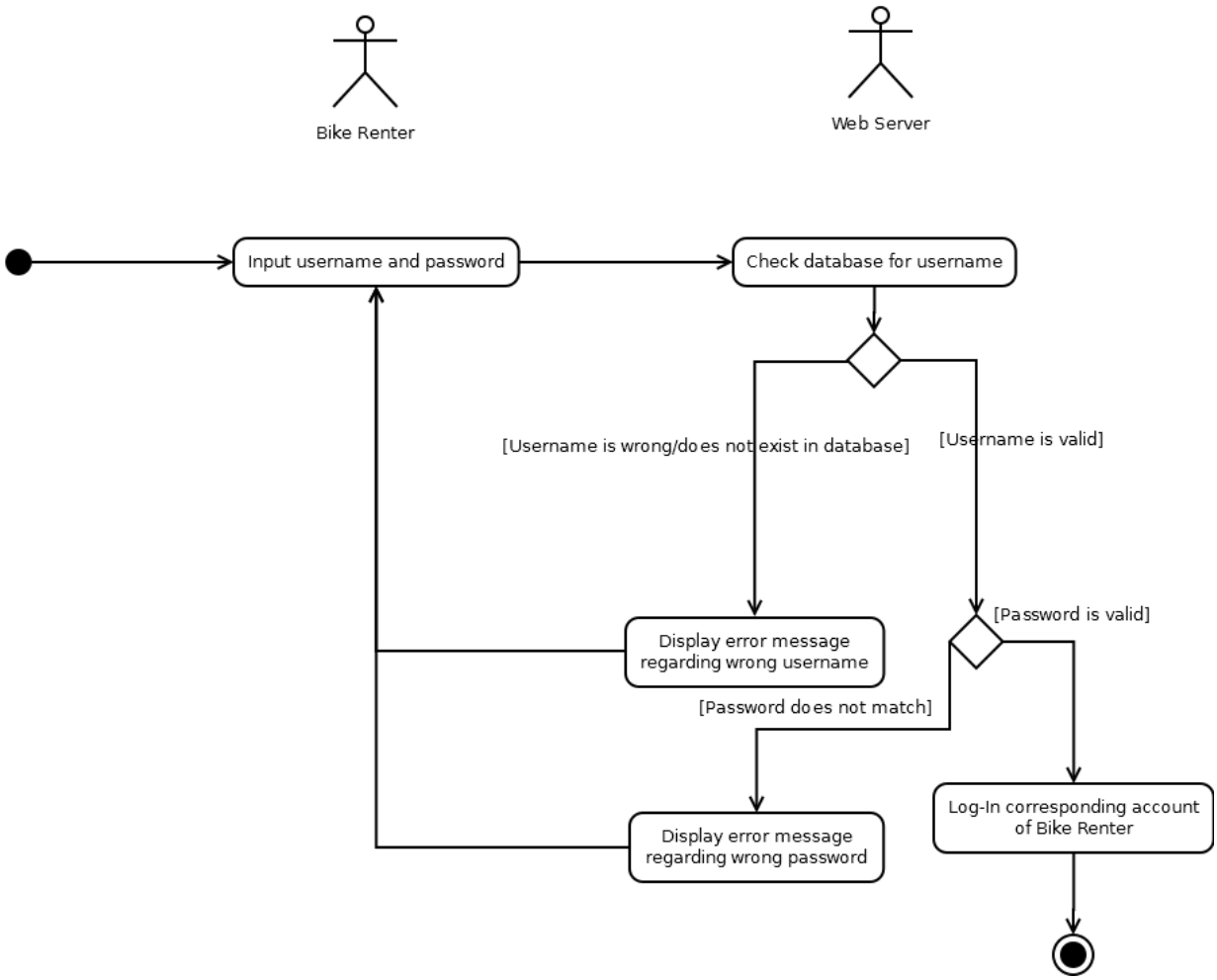
Description: A Bike Renter who has registered an account can then log in the system using their username and password. Most other functionalities of the Bike Share module would require users to be logged in.

Preconditions: NONE

Flow of Events:

Scenario Name	***Description***
Scenario 1 (Basic Flow) The Bike Renter logs in his/her account.	1. The Bike Renter inputs their username and password. 2. The Web Server checks the user database for a matching username and password. 3. If there is a match, the corresponding user is logged in.
Scenario 2 (Wrong Username) The Bike Renter attempts to log in his/her account, but inputs a wrong/non-existing username.	1. The Bike Renter inputs their username and password. 2. The Web Server checks the user database for a matching username and password. 3. If the username is not found in the database, the system displays an error stating that the username is wrong, and the flow trails back to step 1 of the scenario basic flow.
Scenario 3 (Wrong Password) The Bike Renter attempts to log in his/her account, but inputs an incorrect password for the username.	1. The Bike Renter inputs their username and password. 2. The Web Server checks the user database for a matching username and password. 3. If the username is in the database but the inputted password is wrong, the system displays an error stating that the password is wrong, and the flow trails back to step 1 of the scenario basic flow.
Scenario 4 (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.

Activity Diagram of the Flow of Events:



Postcondition: The Bike Renter's account status is 'Logged In.'

Relationships: The Web Server will communicate with the Bike Share module that the Bike Renter is using for this use case in order to validate account credentials and place the Bike Renter's account status as 'Logged In.' The View Account, Search Available Bikes, Reserve Bike, Lock Bike, and Report Bike Issue use cases can only be used once the Bike Renter is logged in.

Special Requirements:

NONE