UP Bike Share – Android AppProject Description

Submitted to:

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Group: Team S+

Unique Reference:

The documents are stored in:

https://github.com/devsofup/UPBike-Share-Android/tree/master/01-Project-Documents

Document Purpose:

This document serves as the baseline of the project's requirements, what the project really is about and the most basic form of its functionalities. This will serve as a reference when changes will be made to the project.

Target Audience:

This document is for the viewing of the development team, the client, the guiding faculty and also possible users.

Revision Control:

Revision Date	Person Responsible	Version Number	Modification
08/26/2015	Jaypee Renz San Gabriel	0.9	Initial Document; draft still missing some details and context diagram.
08/26/2015	Steven Barozzo Mark Anton Mamac	1.0	Complete initial document.

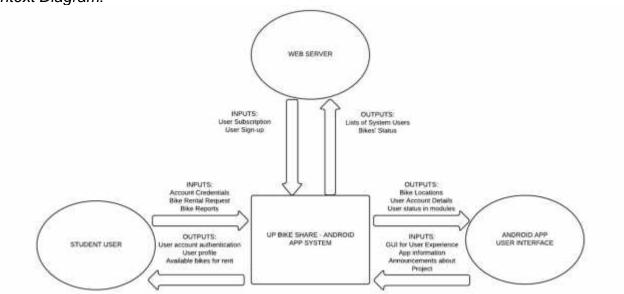
System: UP Bike Share – Android App Version: 1.0 Project Title: **UP Bike Share**

Description: The UP Bike Share project aims to provide a new way to travel within UP for students

with the use of bikes. With a system at its core, it will make use of web and mobile applications to process data and provide needed information to allow users in UP Diliman to borrow bikes for traveling within UP. While the Web Server side will connect the hardware to be installed on the bike with the database for processing, the Android Application will be for students to easily use the UP Bike Share module on the go. This Android Application will be more focused on interaction with users, meaning there

will be more emphasis on the User Interface.

Context Diagram:



Entities:

Admin: Tracks the general status of the bikes and the users, such as biker fees, bike locations (including theft prevention,) reset passwords every month, among others.

User: Registers for the module, pays subscription fees, rents bikes, unlocks bikes with student number and a password, returns bikes to drop-off areas in UP Diliman.

Web Server: Connects and processes overall data such as automatic input from bikes, input from users and admin and also outputs relevant information to them.

User Interface: Allows interaction between the Bike Share module and its users.

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Major Inputs:

Log In: The user can input a username and pin.

Report: The user can report an issue with the bike via controls.

Change PIN: The user can change his pin code should he forget it.

Locate: The user can prompt the database to locate a nearby bike that can be used.

Lock: The user can lock his current bike at a safe zone.

Rent: The user should be able to notify the module that he will be riding a bike.

Major Outputs:

Log In: The application should be able to inform the user of successful/unsuccessful log in attempts, and also block users that have unsuccessful attempts, and display this status (locked/unlocked.)

View: The application should be able to display the user's account details.

Locate: The application should be able to display a bike's location and status.

Rent: The user should be notified of his remaining time in renting a bike.

Misc: The application should notify successful actions within the module.

Major Functionalities:

Log In: The user can log into the bike.

View: The user can view his current account details.

Report: The user can report an issue with the bike via controls.

Change PIN: The user can change his pin code should he forget it.

Locate: The user can locate a nearby bike that can be used.

Lock: The user can lock his current bike at a safe zone.

Rent: The user should be able to ride the bike while it is unlocked, and be notified of his time left.

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