University of South Alabama

JagTrack
Software Requirements Specification
For Load Balancing

Version 1.0

Revision History

Date	Version	Description	Author
12/Mar/12	1.0		Xingyu Wang

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Software Requirements Specification

1. Introduction

1.1 Purpose

One of the major features of the JagTrack application is load balancing. The purpose of this SRS is (1) to fully describe its external behavior: calculate how many riders are currently on the bus; (2) to describe its nonfunctional requirements, including performance and dependability; and (3) to describe its technology constraints.

1.2 Scope

The JagTrack application performs two major features: Boarding JagTran and load balancing. This SRS is associated with the use-case model Bus Load.

1.3 Definitions, Acronyms, and Abbreviations

See the Glossary.

1.4 References

Glossary
Supplementary Specification

1.5 Overview

The rest of this document contains an overall description of the general factors that affect the product and its requirements, all software requirements which are detailed enough for designers and testers, and other supporting information.

2. Overall Description

2.1 Use-Case Model Survey

This section provides an overview of the use-case model Bus Load. The actors involved in this use-case model are the user, rider and sensor. (Use-case diagrams are needed here)

2.2 Assumptions and Dependencies

Assume user's cell phone can get access to the Internet.

Assume the sensors work correctly and efficiently.

Assume the system can read data from the database efficiently.

3. Specific Requirements

3.1 Use-Case Reports

Functional requirement: The system is able to figure out how many riders are currently on the bus.
Nonfunctional requirement 1: The system must be made available to user for download.
Nonfunctional requirement 2: Users must have necessary hardware to download software.

3.2 Supplementary Requirements

See the document named Supplementary Specification.

4. Supporting Information

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