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**University of South Alabama**

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**JagTrack  
Software Requirements Specification  
For Boarding JagTran**

**Version 1.0**

Jag Track	Version: 1.0
Software Requirements Specification	Date: 12/Mar/12
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## 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 boarding JagTran. The purpose of this SRS is (1) to fully describe its external behavior: for a given stop, figure out when the last bus left and when the next bus will arrive; (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 Boarding JagTran.

### 1.3 Definitions, Acronyms, and Abbreviations

See the Glossary.

### 1.4 References

Glossary  
Supplementary Specification

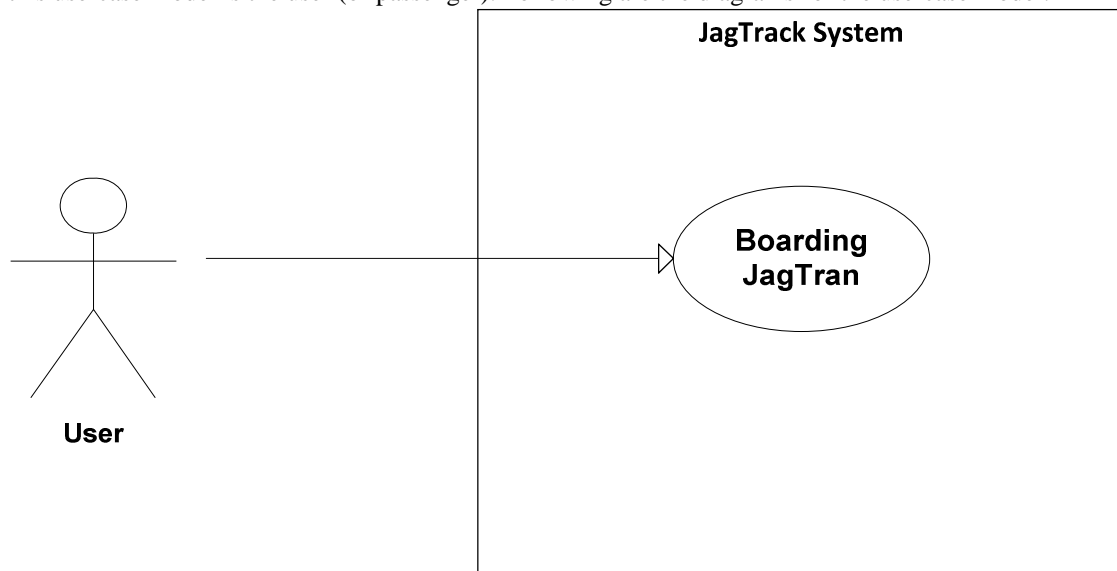
### 1.5 Overview

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.

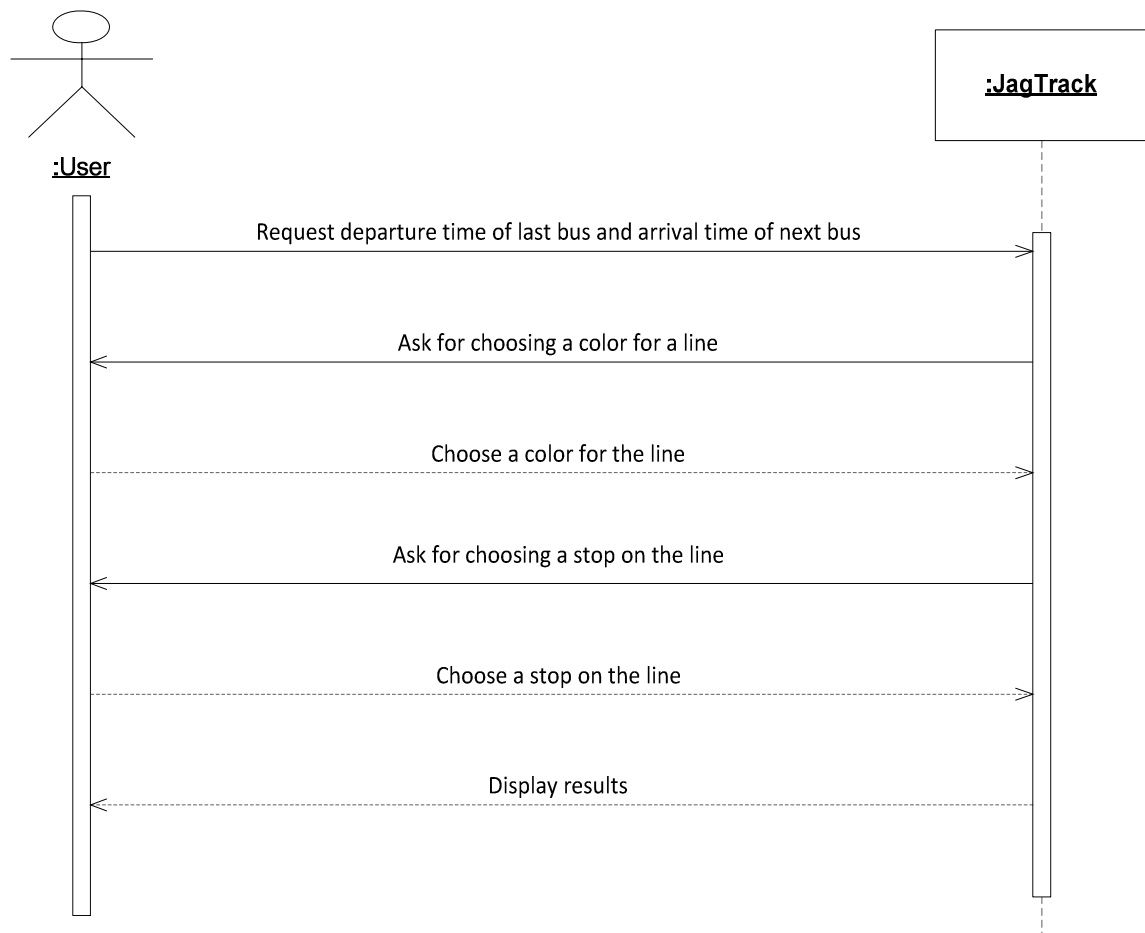
## 2. Overall Description

### 2.1 Use-Case Model Survey

This section provides an overview of the use-case model Boarding JagTran. The primary actor involved in this use-case model is the user (or passenger). Following are the diagrams for the use-case model:



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## 2.2 Assumptions and Dependencies

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

Assume the GPS works correctly and efficiently.

Assume the system can read data from the database efficiently.

## 3. Specific Requirements

### 3.1 Use-Case Reports

Functional requirement 1: The system is able to figure out when the last bus left for a specific stop on a specific line.

Functional requirement 2: The system is able to figure out when the next bus will arrive for a specific stop on a specific line.

Performance: After the user has chosen both line color and stop, the system should take no longer than 5 seconds to display the result.

Dependability: Out of 1000 users' requests, at least 999 should be responded correctly and efficiently.

Technology and tool: Database, sensors, and GPS work in the way they are expected.

### 3.2 Supplementary Requirements

See the document named Supplementary Specification.

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#### **4. Supporting Information**

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