<JagTrack >

Business Rules

Version 1.1

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 12/Mar/2012 | 1.0 | The business rules of the JagTrack System | Leyue Wang |
| 19/Mar/2012 | 1.1 | Edited | Hayden Chudy |
|  |  |  |  |
|  |  |  |  |

Table of Contents

1. Introduction 4

1.1 Purpose 4

1.2 Scope 4

1.3 References 4

1.4 Overview 4

2. Definitions 4

2.1 JagCard 4

2.2 Restricted Articles 4

2.3 Actors 4

2.3.1 User 4

2.3.2 Controller 4

2.4 System 4

2.4.1 Update 4

2.4.2 Change of route 5

# Introduction

This is a Business Rules document of the JagTrack Project. It includes the facts relating terms to each other, the constraints and the derivation in the Project.

## Purpose

To give better constraints for coding, and to make the end product safer and more stable.

## Scope

The rules may change if any item while coding changes, and this gives some constraints while coding.

## References

No references.

## Overview

The document contains the definitions we’ll cover in the project, the rules we need to use, the constraints while coding and the relationships between the items.

# Definitions

JagCard: the card to identify whether the person is a student of the campus

JagNumber : a number for every student that identifies them (every student has one)

JagTrack: the school bus goes around the campus

Restricted article: pets, lit cigarette ,sharp tools etc.

## JagCard

Only a student with their JagCard can log into the JagTrack System for tracking (i.e. if a student cannot provide his/her JagCard, then he/she should provide some information like his/her name and StuNumer to prove he/she is a student on campus).

## Restricted Articles

No restricted article is allowed on the JagTrack.

## Actors

Concerning the people who can log into the JagTrack System, we can divide them into two groups, user and controller.

### User

The student on the campus can get into the system by sweeping their JagCard. Uses the application to check the times of the JagTran.

### Controller

This user is like an administrator with the following tasks:

* The JagTran should not run at a high speed when campus is crowded.
* The JagTran cannot start until there’s at least 5 people on it when fastigium.
* The JagTran should optimize its load balancing capabilities

## System

### Update

The system should update the information once every few minutes (“the information” includes: the next bus arrival time, the current stop name of the route, the name for next stop of the route, the bus’ current location, etc.).

### Change of route

If the route has changed, there should be an announcement on the first page of the system or a notifications.