User requirements specification

Version – 0.2

Updated by Velin Ekupov

Version description:

Second concept of URS document

# Overview

Airport baggage handling system (BHS) simulation.

# Project Scope

## In scope

Simulate luggage processing.

Configurable resources.

Performance statistics.

Visual overview of how the BHS processed baggage.

## Out of scope

Handling passengers through airport.

Scheduling airplane arrival and leave.

# Requirements

1. Configure simulation
   1. Enable users to configure a simulation according to their desires. (e.g., configure the number of check-in spots, passengers, flights, luggage, etc.)
2. Statistics
   1. The simulation provides the means to determine the optimal resource allocation via statistics related to how the luggage has been processed.
3. Visual overview
   1. A visual representation of the BHS showing how the baggage travels from the check-in to its respective destination.
4. Save/Export data
   1. Enable users to export simulation results in an external file
5. Load/Import data
   1. Enable users to import a previously exported data from an external file
6. Start Function
   1. Users should be able to start a simulation whenever they desire.

## Non-functional requirements

1. The program should run with reasonable performance
2. The UI should be somewhat intuitive, rather than confusing even for people less familiar with computers
3. Statistics should be relevant and detailed, however, not overwhelming.

# Glossary

BHS – Baggage Handling System

UI – User Interface