TEST PLAN

iBlade Warehouse Simulation Software

Version 1.2 - 15. 03. 2017

Members: Denisa Apostol
Amira Cruceru
Emese Engedi
Iana Florea
Bogdan Pavel
Leonard Tudorache

Tutor: Chung Kuah

Introduction **3**

Responsibilities **3**

Test Cases **4**

Based on Functional Requirements 4

Based on Non-functional Requirements 6

Introduction

This document is the acceptance test plan for the iBlade furniture warehouse simulation software. The acceptance test defines how the software is tested to ensure that it meets the requirements defined in the User Requirements Specification document. Each test is aimed and structured to check if one or more requirements are met.

This document assumes:

- the requirements are defined in the URS
- the system would pass unit and system tests, since its focus is on the GUI
- the latest version of the system is available for the test
- The client approved the plan

Responsibilities

Acceptance Test Leader:

- Iana Florea

Acceptance Testers:

- Denisa Apostol
- Amira Cruceru
- Emese Engedi
- Bogdan Pavel
- Leonard Tudorache

Other:

In certain cases, people without previous knowledge of the software would participate in the testing process.

Test Cases

Based on Functional Requirements

Test ID: 1.a
Description: User correctly sets the warehouse specifications
Pre-condition: The application is running, the main form is displayed

Step No.	Step description	Test data	Expected result
1	User clicks ‘Change’ button in the ‘Warehouse Specifications’ section		The ‘Warehouse Specifications’ popup window appear
2	User sets the height and the width to 500 (m), the total no. of racks to 200, the no. of racks per line to 20 and the available AGV-s to 6		Every fillable control is filled in
3	User clicks ’Save Settings’ button	Warehouse	Warehouse specifications are set, the popup window closes

Test ID: 2.a
Description: User correctly sets the order data
Pre-condition: The ‘Simulation settings’ tab is open, warehouse specifications are set

Step No.	Step description	Test data	Expected result
1	User chooses the radio button with the text ‘Inbound’	Order	The type of the order is set in the form
2	User sets 02-04-2018 on DateTimePicker related to an order	Order	The date and time is set for that order in the form
3	User sets furniture item to ‘Chair’ from a DropDownList	Chair	Furniture item is set in the form
4	User sets the quantity to 30 on the NumericUpDown	Chair	Quantity of the chair in this order is set in the form
5	User clicks ‘Save orders’ button	Order	The UI returns to the

			main form, orders are set

Test ID: 2.b
Description: User sets inconsistent order data
Pre-condition: The ‘Simulation settings’ tab is open, warehouse specifications are set

Step No.	Step description	Test data	Expected result
1	User sets 02-04-2018 on DateTimePicker related to an order	Order	The date and time is set for that order
2	User sets furniture item to ‘Chair’ from a DropDownList	Chair	Furniture item is set
3	User sets the quantity to 30000 on the NumericUpDown	Warehouse, OrderItem	A red label appear beneath the control warning the user that the quantity is not suitable with the warehouse specifications

---

Test ID: 2.c
Description: Uploaded order data file is not in the correct format
Pre-condition: The ‘Simulation settings’ tab is open, warehouse specifications are set

Step No.	Step description	Test data	Expected result
1	User clicks on ‘upload order simulation data’ button		A file explorer appears
2	User chooses a .csv file	Order simulation data file	The file is chosen
3	User clicks ‘Select’ button		The system displays an error message about the wrong format

---

Test ID: 3.a
Description: User starts a simulation
Pre-condition: The application is running, simulation data are set

Step No.	Step description	Test data	Expected result
1	User clicks on ‘Start simulation’ button		The simulation is rendered on the main form, controls appear on the window to allow modifications during simulation

---

Test ID: 3.b
Description: User wants to run the simulation later
Pre-condition: The simulation details are set

Step No.	Step description	Test data	Expected result
1	User clicks on ‘Save warehouse details’ on ‘Warehouse specifications’ tab		A file explorer appears
2	User names the file and clicks ‘Save’ button	Generating files	A .csv file is generated from the settings and saved
3	User clicks on ‘Save order settings’ button on ‘Simulation settings’ tab		A file explorer appears
4	User names the file and clicks ‘Save’ button	Generating files	A .csv file is generated from the settings and saved

---

Test ID: 6.a
Description: User removes the last order from the simulation
Pre-condition: The simulation is running

Step No.	Step description	Test data	Expected result
1	User chooses the last item from the ‘Orders’ DropDownList	Order list	The order details appear in a ToolTip
2	The user clicks ‘Remove’ button	Order list	The order disappears from the

			list, a new end time is shown on the timeline

Based on Non-functional Requirements

Test ID: N2.a
Description: The system is responsive
Pre-condition: The operating system is running, the application is installed

Step No.	Step description	Test data	Expected result
1	User clicks the ‘iBlade’ icon		The application starts in less than a half millisecond
2	User clicks on the ‘Start simulation’ button		The application renders the simulation in less than a half second
3	User clicks on the ‘Stop’ button		The application stops the simulation in less than a half millisecond
4	User clicks the ‘X’ in the top right corner		The application saves the state and exit in less than a half millisecond