TEST REPORT

iBlade Warehouse Simulation Software

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Introduction

This document is the acceptance test report 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.

Test Cases

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	Passed/ Failed	Comment
1	User clicks ‘Change’ button in the ‘Warehouse Specifications’ section		The ‘Warehouse Specifications’ popup window appear	P	
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	P	The increment steps should be set according to expected values
3	User clicks ’Save Settings’ button	Warehouse	Warehouse specifications are set, the popup window closes	P	The main form should indicate when these are set

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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	Passed /Failed	Comment
1	User chooses the radio button with the	Order	The type of the order is set in the	P	

	text ‘Inbound’		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	P	Date could be set only once, then only the exact time at each orders
3	User sets furniture item to ‘Chair’ from a DropDownList	Chair	Furniture item is set in the form	P	
4	User sets the quantity to 30 on the NumericUpDown	Chair	Quantity of the chair in this order is set in the form	P	Increment step should be set
5	User clicks ‘Save orders’ button	Order	The UI returns to the main form, orders are set	P	Somehow could be indicated on the main form that orders are set

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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**	**Passed/ Failed**	**Comment**
1	User sets 02-04-2018 on DateTimePicker related to an order	Order	The date and time is set for that order	P	
2	User sets furniture item to ‘Chair’ from a DropDownList	Chair	Furniture item is set	P	
3	User sets the quantity to 30000 on the NumericUpDown	Warehouse , OrderItem	Quantity is set	P	
4	User clicks ‘Save Orders’ button		A red label appear beneath the control warning the user that the quantity is not suitable with	F	Not yet implemented

			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	Passed/ Failed	Comment
1	User clicks on ‘upload order simulation data’ button		A file explorer appears	P	
2	User chooses a .csv file	Order simulation data file	The file is chosen	P	The system doesn’t let the user to choose different format than .csv
3	User clicks ‘Select’ button		The system displays an error message about the wrong format	F	Not implemented yet

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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	Passed/ Failed	Comment
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	P	This only partially fulfilled, more controls and more complex simulation will be added later on

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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	Passed /Failed	Comment
1	User clicks on ‘Save warehouse details’ on ‘Warehouse specifications’ tab		A file explorer appears	F	Not implemented yet
2	User names the file and clicks ‘Save’ button	Generating files	A .csv file is generated from the settings and saved	F	Not implemented yet
3	User clicks on ‘Save order settings’ button on ‘Simulation settings’ tab		A file explorer appears	F	Button is in place, but method is not implemented
4	User names the file and clicks ‘Save’ button	Generating files	A .csv file is generated from the settings and saved	F	Not implemented yet

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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	Passed/ Failed	Comment
1	User chooses the last item from the ‘Orders’ DropDownList	Order list	The order details appear in a ToolTip	F	Not implemented yet
2	The user clicks ‘Remove’ button	Order list	The order disappears from the list, a new end time is shown on the timeline	F	Not implemented yet

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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	Passed /Failed	Comment
1	User clicks the ‘iBlade’ icon		The application starts in less than a half millisecond	P	
2	User clicks on the ‘Start simulation’ button		The application renders the simulation in less than a half second	P	
3	User clicks on the ‘Stop’ button		The application stops the simulation in less than a half millisecond	P	
4	User clicks the ‘X’ in the top right corner		The application saves the state and exit in less than a half millisecond	F	It doesn’t save the state yet