

BoomBook Store	Version: 1.0.0
Software Test Report	Date: 14/06/2020

BoomBook Store Software Test Report

1. Introduction

1.1 Purpose and Scope

The purpose of this document is to describe the testing process, which is part of the development and verification process of the Boombook Store Online Shopping System. This document also includes the preparation process of Test Case's , test standards, test results and evaluations of the results.

1.2 Descriptions and Abbreviations

STR	Software Test Report
UC	Use Case
TC	Test Case
PPD	Power Puff Dudes

2. Descriptions of Test Activities

2.1 Document Security

To ensure the reliability of the STR document, we also stored the document in a drive that only PPD group members can access. In order to ensure the integrity of the document, the right to change the document with the decision we made as a group was given only to the project manager Oktay UĞURLU and test engineer Ahmet Deniz GÜNER. After the document is completed, it will be uploaded to a Github repository for viewing and evaluation. Only PPD group members and project instructors can access this repository.

2.2 Data Recording, Reduction and Analysis

We planned to do our tests manually , and we generate test data by thinking about the system's features. And we stored our test data on data tables in the TC definitions report. In addition we stored test data tables on Excel document to better observe the results with test data and compare the results easily when we run the same test again. We added the test result data to the excel document in tables. We have stored these documents in a drive account that only group members have access to.

3. Test Preparation

BoomBook Store	Version: 1.0.0
Software Test Report	Date: 14/06/2020

3.1 Hardware Preparation

Since we designed a web based online shopping system in this project, we did not need any extra hardware preparation and equipment in both development and testing processes. We just needed computers that are compatible with JDK1.8 so we can develop the project and can run the project to test the codes we wrote.

3.2 Software Preparation

All group members download the IntelliJ IDEA , JDK 1.8 , mySQL Workbench 8.0 and Github Desktop on their own computer after that PPD group members made necessary adjustments to can use SpringBoot, Hibernate and another technologies related to project. We stored our codes in Github repository. We used manual test techniques , we didn't need to test data generator or another testing tool. Each developer applied white-box test techniques when he wrote a code for checking functionality of him code and database connection etc. When the project is fully completed, test engineer applied black-box test to system manually for to check that the project meets the system requirements correctly , detect the bugs system and front-end.

3.3 Other Pre-test Preparations

For testing process, we have prepared test cases. Test engineer Ahmet Deniz GÜNER prepared the test cases and Tuna Aybar TAŞ helped him in this process. While preparing the test cases, we aimed to test that the software can meet system requirements, system integrity, and user availability. When we prepared test cases we paid attention to use a strong title and description ,having assumptions and preconditions , having clear description step by step.

4. Test Results

Use Case Num.	Use Case Name	Test Case Description File Name	Retest?	Number of Activity	Number of Non-workin	The time spent
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BoomBook Store	Version: 1.0.0
Software Test Report	Date: 14/06/2020

				Paths Tested	g Activity Paths	
PPD-UC-001	Login	PPD-TC-004 - Login with valid data	No	2	0	30 min
		PPD-TC-005 - Login with unverified email	No	2	0	
		PPD-TC-006 - Login with wrong password	No	3	0	
		PPD-TC-007 - Login with empty fields	No	2	0	
		PPD-TC-008 - Log out Test	No	1	0	
PPD-UC-002	Register	PPD-TC-001 - Register with new and valid data	No	2	0	20 min
		PPD-TC-002 - Register with the data of a registered user	No	2	0	
		PPD-TC-003 - Register with invalid data	No	4	0	
PPD-UC-003	Manage Profile	PPD-TC-011 - Updating Customer Profile	No	3	0	10 min
PPD-UC-004	Search Product	PPD-TC-009 - Searching a book on main page	Yes	7	0	1 h
		PPD-TC-010 - Filtering Products	No	9	0	
PPD-UC-005	View and Evaluate Product	PPD-TC-012 - View Single Product	No	3	0	30 min
		PPD-TC-013 - Rating the product	Yes	4	0	
		PPD-TC-020 - View Events	No	2	0	
PPD-UC-006	Manipulating Books	PPD-TC-028 - Add book with used ISBN or invalid data	No	6	0	2 h
		PPD-TC-029 - Add book with valid data	No	4	0	
		PPD-TC-030 - Search book	No	3	0	
		PPD-TC-031 - Edit data with invalid data	Yes	5	0	
		PPD-TC-032 - Edit data with valid data	No	2	0	
		PPD-TC-033 - Deleting book	No	2	0	
		PPD-TC-034 - Add campaign	Yes	4	0	
PPD-UC-007	Manipulating Categories	PPD-TC-035 - Add main category	Yes	2	0	30 min
		PPD-TC-036 - Add sub category	Yes	2	0	
		PPD-TC-037 - Delete category	Yes	4	0	
PPD-UC-008	Add a Book the Cart	PPD-TC-016 - Buying without login	No	1	0	5 min
PPD-UC-009	Confirm the Payment	PPD-TC-014 - Buying a book	Yes	4	0	30 min
		PPD-TC-015 - Wrong Payment Credentials	Yes	4	0	

BoomBook Store	Version: 1.0.0
Software Test Report	Date: 14/06/2020

PPD-UC-010	Compare Books	PPD-TC-019 - Compare Product	No	2	0	15 min
PPD-UC-011	View and Confirm Sales	PPD-TC-039 - View and confirm sales	Yes	3	0	15 min
		PPD-TC-040 - View delivery situation	No	1	0	
PPD-UC-012	View Deliveries	PPD-TC-017 - View Customer Orders by customer	No	2	0	10 min
		PPD-TC-018 – Viewed Shipment Status by customer	No	1	0	
		PPD-TC-041 – Viewed Deliveries Completed by admin	No	1	0	
PPD-UC-013	Send Email	PPD-TC-038 - Send Message	No	7	0	20 min
PPD-UC-014	Manipulate Customer Information	PPD-TC-021 - Add customer with data of registered user	No	1	0	1 h
		PPD-TC-022 - Add customer with the invalid data	No	6	0	
		PPD-TC-023 - Add customer with the valid data	No	1	0	
		PPD-TC-024 - Search customer	Yes	2	0	
		PPD-TC-025 - Edit customer info with invalid data	No	6	0	
		PPD-TC-026 - Edit customer information with valid data	Yes	1	0	
		PPD-TC-027 - Deleting customer	No	2	0	
PPD-UC-015	Manipulate Cargo Firms	PPD-TC-042 - Add a new cargo firm	No	5	0	15 min
		PPD-TC-043 - Edit cargo firms	Yes	4	0	
		PPD-TC-044 - Delete cargo firms	No	2	0	
	TOTAL 15	44		136	0	7h 50min

4.1 Criteria for Evaluating Results

- An output (any output, payment amount, error message etc.) must exactly match the expected test results in the test data. Otherwise, the tested use case will be reviewed.
- If input is entered into a form, incorrect or missing data must be entered at least once for each space. Incorrect combinations should also be attempted if possible. At least two correct combinations should be tried for each input and the results should be compared. At

BoomBook Store	Version: 1.0.0
Software Test Report	Date: 14/06/2020

least once with the same input, the test should be attempted twice and the same result should be observed.

- c. The maximum time for each test is 15 minutes. If this period is exceeded, the developer who coded the relevant section should be given feedback and passed to other tests.
- d. Maximum number of interrupts, halts or other system breaks is 1. In this case, the cause of this situation should be investigated immediately and the problem should be solved.
- e. Allowable severity of processing errors limit is too low because such a problem can create larger problems at more advanced levels.
- f. In cases where the outputs do not match the expected outputs, when the test is interrupted, the tests will be rerun after rearranging the relevant section.
- g. The results obtained from the tests should be noted in the table with the number of runs of the test, thus ensuring traceability.
- h. Until the tests are functionally completed and the bugs are corrected, the problems with the interface can be ignored.

5. References

- 1) Del2_Test_Case_Definitions