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Software Test Report	Date: 03/06/2020

# <KaBook Store> Software Test Report

## 1. Introduction

### 1.1 Purpose and Scope

In this document, we have indicated the preparation stages, scopes and results of the test cases we have previously created for the project. It will also provide information in terms of test cases preparation and application.

### 1.2 Descriptions and Abbreviations

STR	Software Test Report
PT	Purchase Test
UC	Use Case
TC	Test Case
SRS	Software Requirements Specifications

## 2. Descriptions of Test Activities

### 2.1 Document Security

Documents are only accessed by the authorized people such as Frisbee Developer Group and other stakeholders. We use Google Documents to share and edit the documents. Therefore, nobody can access or edit these documents unless we share the link.

### 2.2 Data Recording, Reduction and Analysis

We did not use any automated or semi-automated tools during the testing process. Each member of the group was also responsible for the test phase of the parts he was responsible for in the development phase. Our main purpose in not automating our test conditions was to see the system more humanly.

Of course, it does not mean that we have created these data completely manually. We also used the web sites we gave in the references to create dummy data. This tool creates information in a completely desired type of data with a number of meaningful data such as first name, last name for users. In this way, we have saved time. But as you know, there is also data deletion in our test cases. Therefore, the data in the presentation will be less than it was.

In order to analyze our data, we used a google document which is accessible by only Frisbee group members. In this document, we used a template that we agreed. In this way, we have ensured that everyone can access the test data correctly.

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### 3. Test Preparation

#### 3.1 Hardware Preparation

KaBook Store is a web-development project. So, there is not any test preparation about it except the speed. As it is mentioned, we use a database on Microsoft Azure. Our database location is North America. Accordingly, the speed between database and website is not so fast. We tried to increase these speed.

#### 3.2 Software Preparation

In order for the tests to be carried out successfully, it is ensured that the information that is required to be successfully run on the java backend is possible.

The Angular CLI is a command-line interface tool that you use to initialize, develop, scaffold, and maintain Angular applications. You can use the tool directly in a command shell, or indirectly through an interactive UI such as Angular Console.

Since we have an angular system, we need to run the project on the computer with serve first.If the system is working properly, angular starts working on a port on our localhost and shows the system to us.

If the system is not running and encountering errors, we can definitely see syntax errors or other errors before starting the tests and we have the opportunity to fix them before starting.

Our front-end applications need to communicate with a server over the HTTP protocol, in order to download or upload data and access other back-end services. Angular provides a simplified client HTTP API for Angular

The HTTP client service offers the following major features.

- The ability to request typed response objects
- Streamlined error handling.
- Testability features
- Request and response interception.

The HttpClient service makes use of observables for all transactions. We import the RxJS observable and operator symbols that appear in the example snippets. These ConfigService imports are typical.

Use the HttpClient.get() method to fetch data from a server. The asynchronous method sends an HTTP request, and returns an Observable that emits the requested data when the response is received. The return type varies based on the observe and responseType values that you pass to the call.

The get() method takes two arguments; the endpoint URL from which to fetch, and an options object that you can use to configure the request.

By combining the front-end and back-end in this way, we can get a system ready to start testing.

#### 3.3 Other Pre-test Preparations

First of all, tester must have pulled the whole project from github to his/her own branch.

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Then, if there are any local problems, it should be resolved and the program should run the back-end without any problems. Then, after running the project via java, it should start the AngularJS via command prompt and it should arrive smoothly.

Tester can see and control the parts he/she wants to test by entering the required local address via browsers that can be used. Tester often log messages to the Console to make sure that their JavaScript is working as expected. To log a message, into his/her JavaScript. When the browser executes your JavaScript and sees an expression like that, it knows that it's supposed to log the message to the Console. For example, suppose that you're in the process of writing the HTML and JavaScript for a page:

## 4. Test Results

Use Case Number	Use Case Name	Test Case Description File Name	Retest?	Number of Activity Paths Tested	Number of Non-working Activity Paths	The time spent
2	Payment Validation	Phases that is required for purchase is tested	-	4	0	10 min.
13	Shopping Cart	Control of transactions in shopping cart	-	3	0	5 min.
18	Coupon System	Testing whether customer can use coupons for discount or not	-	2	0	5 min.
21	Order Confirmation	Admin confirms the user order.	-	3	0	2 min.
1	Registration	Tests related to customer registration.	-	4	0	10 min.
3	Login/Logout Process	Tests Related to customer and admin authentication.	-	2	0	2 min.
9	Payment Settings Controller	Test Related to add, delete and update payment settings of customer.	-	2	0	5 min.
11	System Maintenance	Tests related to system is working properly in backend and Azure Server.	-	3	0	5 min
16	Comments	Checking what happens if a	-	6	0	5 min

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		customer tries to comment on a book that they have not purchased before.				
14	Account Settings	Test related to updating and changing account settings of customer.	-	2	0	5 min.
			-			
5	Stock Control	Tests are related to the number of stocks of books.It covers the stage of adding the books to the shopping cart and after the purchase books.		6	1	10 min.
						10min
6	Comment Control	Tests that control the ability of users in the system to comment on books.		6	1	
10	Supports System	User's report that they do not appropriate from the comments and control tests of the reports.		5	0	5min
17	Ratings	The test checks the rating of users when making comments.		5	0	10min
4	Search Filtering	Tests of homepage search and category sections.		3	0	5min
TOTAL			x		x	x

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## 4.1 Criteria for Evaluating Results

### a. The range or accuracy over which an output can vary and still be acceptable

Since the output is proper for system expectations or it doesn't cause any errors in the system it is acceptable.

### b. Minimum number of combinations or alternatives of input and output conditions that constitute an acceptable test result

Tests checks the different system components. It is up to the that system component. But there is at least two alternative condition for test.

### c. Maximum or minimum allowable test duration, in terms of time or number of events

On average, we have 4-5 steps in a test and it takes 2-10 min to apply.

### d. Maximum number of interrupts, halts, or other system breaks that may occur

The system should work without interruption. In the event of a system interruption, authorized group members should intervene. It should be ensured that the system is in a steady state.

### e. Allowable severity of processing errors

We avoid the processing errors that may cause the infinite loop, disrupting database tables or system crash.

### f. Conditions under which the result is inconclusive and re-testing is to be performed

If the output is not as expected after making changes in code, re-testing is performed. On the other hand, system may crash during the test. Crash is also not desired result.

### g. Conditions under which the outputs are to be interpreted as indicating irregularities in input test data, in the test database and data files, or in test procedures

During the test, we can see no errors. But that doesn't mean everything works well. For example, data can be transmitted to the database incorrectly. This situation can be checked by looking the database table. A required value may be stored as null in database.

### h. Allowable indications of the control, status, and reports of the test and the readiness for the next test case (may be output of auxiliary test software)

Since this system has many components in it, we can not apply the tests irregularly. We can check the test status by communicating each other or looking at the test case definition document.

## 5. References

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