Readably

Software Test Report

1. **Introduction**

## Purpose and Scope

One of the important stages of software development is testing. By testing the programs, it can be learned to what extent the determined requirements are met. In addition, if the used cases have errors, they are detected and corrected. Thus, a better quality program is obtained. In this project, a book shopping site called Readably was developed. This document is the report of the testing phase of this project. It shows the results obtained during the tests.

## Descriptions and Abbreviations

|  |  |
| --- | --- |
| *STR* | *Software Test Report* |
| *UC* | *Use Case* |
| *TC* | *Test Case* |

# Descriptions of Test Activities

## Document Security

This report contains information about the testing phase of the book shopping site project that is "Readably". Only authorized persons should read this report. It must not be taken over by unauthorized persons.

## Data Recording, Reduction and Analysis

The program written was manually tested. For the written requirements, certain conditions were determined and test steps were made according to these conditions. Anyone who actively helps the software part of the program has also determined the error control conditions of the parts it wrote and has been tested by various users according to the program. It is very important that the program works smoothly for the quality and confidence of the user. tests are carried out for this and errors are discovered and reduced, if possible, all corrected. Thus, the errors obtained as a result of the tests were corrected. In addition, overlooked and skipped deficiencies were eliminated as a result of the tests. The software team who wrote the program also discovered the errors and deficiencies that could occur as a user by using the program quite a lot. Thus, many possibilities were tried even if it was manual. The program was completed successfully by performing tests.

# Test Preparation

## Hardware Preparation

The created application is a website application. The application is run on the local server for real-time testing. The team that writes the application can get the opportunity to test their written pieces instantly. In addition, the application can be tested thoroughly by other end users. These tests are usually manual. The information required on the website is stored in the database. Other information can be kept in local storage. The data is kept with the database and this data can be used by the users with the permission (that is, the information concerning their account is displayed on the website and is available for use). During the testing phase, the user registers on the site and takes advantage of the many functions of the site. Since the program written is a website, it can be accessed from devices with internet access. But since a general address cannot be obtained over the internet, it can be used and tested on local servers. In addition, since the Admin portal is run at a separate address, the same tests are made with the admin account, which has access only, and related tests are carried out.

The stages of testing on the computer:

1. The program is run on the local server.

2. Database setup is performed automatically while running.

3. When the program is run on the local server, the user can perform the necessary operations and test.

## Software Preparation

Test part is very important in software development. because we check the quality and deficiencies of the software. Test data should be prepared carefully and in a way that it can reveal errors in the program. These are created as a result of the common ideas of the software team. Thus, comprehensive test analysis can be obtained. During the software phase, the tests determined by the software team are performed for each use case, and the use cases are approached from various perspectives and a wide test process is experienced. Here, since the website is not working properly, data is saved to the database at the beginning and changes in the database can be observed with the operations performed. Moreover, test processes such as account login and accounts on the database created or monitoring changes in the tables in the database take place. In addition, while testing the system in the last parts of the software phase, the holistic testing phase is also carried out, since all use cases can be used together. For example, a user can create his account and search books in the book shopping system. How these calls should be observed under specified conditions are observed. As a result of these observations, any errors are recorded. Then, to purchase the book, transactions such as adding to cart and making payments can be followed. In order to observe the errors that may occur in these processes, many different audit processes can be performed. Thus, the quality of the application can be improved by correcting the deficiencies and errors in the software.

## Other Pre-test Preparations

When determining the use cases to be written during the program writing phase, errors and controls that may occur are considered. The software phase is created by taking into consideration the controls of these errors. In order to observe deficiencies and errors in the development process of the software, as many tests as possible can be done. these constitute a preparation process before the general tests and when the software of the related majors becomes complete and available, the recorded error checks of this preparation process are used.

1. **Test Results**

Most of the our test passed. Failed test reported the developer team to fix the bugs.Every TC tested at least 1, at most 5 different test data file. Each data file consists of at least 1 data. For example, we look second TC that is OSSC-TC-2:Sign-In. While we were testing this TC, we need 2 parameter that are email and password. Each parameter has own data file. Data files contains correct and incorrect data. Some incorrect data is caused by format error. For example, the password needs a minimum of 8 characters but incorrect data length is 3. Entering all combination of password and emails with hand is very hard duty. Clicking the log-In button call function.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 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 |
| 1 | **Sign Up** | | TestCaseDefinition | 5 | 3 | - | 3 days |
| 2 | **Sign In** | | “ | 4 | 3 | - | 2 days |
| 3 | **Logout** | | “ | 2 | 1 | - | 1 days |
| 4 | **Edit Profile** | | “ | 4 | 5 | - | 4 days |
| 5 | **Shopping Cart** | | “ | 10 | 3 | - | 3 days |
| 6 | **Rating a Book** | | “ | 5 | 5 | - | 1 day |
| 7 | **Search/View Book** | | “ | 9 | 4 | - | 2 days |
| 8 | **Delete Member** | | “ | 3 | 6 | - | 2 days |
| 9 | **Edit Books** | | “ | 8 | 4 | - | 1 day |
| 10 | **Add/Remove Books** | | “ | 15 | 3 | - | 1 day |
| 11 | **Manage Order** | | “ | 7 | 6 | - | 1 day |
| 12 | **Contact** | | “ | 10 | 3 | - | 2 day |
| 13 | **Best Sellers** | | “ | 4 | 5 | - | 1 hour |
| 14 | **Campaigns** | | “ | 5 | 4 | - | 2 hours |
| 15 | **Suggestions** | | “ | 4 | 7 | - | 1 hour |
| 16 | **Shopping History** | | “ | 11 | 3 | - | 1 day |
| 17 | **Set comments to books** | | “ | 9 | 5 | - | 2 days |
| 18 | **Receipt** | | “ | 4 | 2 | - | 1 days |
| 19 | **Wishlist** | | “ | 15 | 6 | - | 1 day |
| 20 | **Payment/checkout** | | “ | 16 | 4 | 1 | 2 days |
| 21 | **Print the Receipt** | | “ | 8 | 1 | - | 1 hour |
| 22 | **Sort the books** | | “ | 5 | 9 | - | 2 days |
|  | TOTAL | |  | ***164*** | ***91*** | ***1*** | ***~32 days*** |

## *Criteria for Evaluating Results*

The accuracy of the test results alone is not enough. Satisfy the users we should use some criteria to our test. For each test result, provide the following information, as applicable:

a. Users like speed. Therefore every process done in milliseconds.

b. Readably should never interrupts due to its fault. We response in the case of invalid inputs for exception handling.

c. There is no limit to the test time. The test continues until all conditions have been tried.

d.According to our tests, there is no interruption in our project.

e.When we encounter any errors, we need to start our program again.

f.Eğer doldurmanız gerekiyor alanlar boş bırakılırsa işlemin yapıldığı tekrar tekrar döneriz.

g.If irregularities are encountered during any testing process, program files and lines of code should be corrected to correct this irregularity.

h.We do the test check through the eclipse program. No program was used.

# References

-<https://stackoverflow.com>

-<https://freethemescloud.com>

-<https://github.com>

-<https://maven.apache.org>

-<https://spring.io/projects/spring-boot>