Spor Cantam
Software Test Report

1. Introduction

1.1 Purpose and Scope

One of the important facets of the software development life cycle is Testing. Software testing is an area that is being considered and given utmost importance in the world of fast-changing technology. There are various stages at which testing is done to ensure the quality of delivery.

This document is the software test report of the android app testing phase of the Spor Cantam software development project. It contains the results of tests, which were executed during the testing.

1.2 Descriptions and Abbreviations

STR   Software Test Report
UC   Use Case
TC   Test Case
SCA   Spor Cantam App
AS   Android Studio

2. Descriptions of Test Activities

2.1. Document Security

This report is about test results of Spor Cantam app. It contains top secret things. Therefore this report should be read by authorized persons.

2.2. Data Recording, Reduction and Analysis

While we were testing our project, we got help from several resources, tools. Some of these things are automatic, some of the others are manual. For example, during the unit test, when we prepare a test data to check whether the entered email is valid, we use some scripts to generate emails and we wrote few emails with hand to detect error under special condition. This data generation part is semi-automatic because we created one part of the data automatically, others are manual. After the test data is generated, we got help from the android studio's test units. Then we save results to analysis and notify the relevant team. Analyzing and notifying failed data is bug fixing. Fixing bugs is important reliability of the app. Additionally, checking email is in several TC such as login, signup, manipulate settings and so on.

3. Test Preparation

3.1. Hardware Preparation

We use android studio's emulator for testing. Our app requires minimum Android 5.0 Lollipop. SCA needs internet connection to communicate with the server. SCA stores only sessions and insignificant information in local storage, other things stores by server. For every new frame, there is communication between phone and server. After running emulator, we open the app that is installing by emulator automatically. We can test SCA manually using emulator. This testing is hardly to test everything. Instead of the emulator, we can do this with a real phone. While we testing with real phone we follow these steps respectively:

1. Open project on android studio.

2. Plug a cable between phone and computer

3. Run MainActivity

4. Select your device (Don't forget the phone's version must be at least Android 5.0 Lollipop)

5. SCA installed the phone, we can test with the real phone.

3.2. Software Preparation

Testing is an important for software. Testing our app will show us our bugs and failed places. Therefore, test data should create carefully.

We store test data in our local hard disks. There are in few different type of file. For instance, when we test entered email that is valid or not, we kept the test data to be tested at txt file. Another file type is xlsx to test function that has more than one parameter.

Test of Android side is testing with AS's test unit or emulator. When we created a new project test unit created by AS automaticly. This is help us during unit test with some libraries.

SCA is connecting with the server. It is happening with the HTTP request. Sometimes we use POSTMAN to these requests without using android app to test server. POSTMAN is a great tool when trying to dissect RESTful APIs made test ones yo have made yourself. It offers a sleek user interface with which to make HTML requests, without the hassle of writing a bunch of code just to test an API's functionality.

4. Test Results

Test Cases Status Table

TEST CASE ID	TEST CASE NAME	All Tests Count	Failed Test Count	NOTES
OSSSC-TC-1	**Sign Up**	**40**	**1**	**Fixed little bug**
OSSSC-TC-2	**Log In**	**15**	**0**	
OSSSC-TC-3	**User Information View and Manipulate**	**20**	**0**	

OSSSC-TC-4	Item Create	50	4	Fixed all failed test. Item class evaluate continuously, therefore, its tests are increasing
OSSSC-TC-5	Search Item	20	3	Tests are relatively failed and we work on it
OSSSC-TC-6	View Item	5	0	
OSSSC-TC-7	Select Item	2	0	
OSSSC-TC-8	Add To Cart	10	0	
OSSSC-TC-9	View Shopping Cart	3	0	
OSSSC-TC-10	Update Shopping Cart	20	0	
OSSSC-TC-11	Checkout	5	0	
OSSSC-TC-12	Select Address	3	0	
OSSSC-TC-13	Payment	10	0	
OSSSC-TC-14	View History	1	0	
OSSSC-TC-15	Customer Notification	20	4	Working on it. Sending wrong messages to users
OSSSC-TC-16	View Order History	1	0	
OSSSC-TC-17	Confirm Order	1	0	3.party app is controling
OSSSC-TC-18	View and Manage Options	10	0	
OSSSC-TC-19	Manage Address	5	1	Fixed
OSSSC-TC-20	Reset Password	15	0	
OSSSC-TC-21	Seller Notification	40	7	Working on it.
OSSSC-TC-22	Receiving Payment	5	0	
OSSSC-TC-23	View and Supply Stock	7	0	
OSSSC-TC-24	View and Manipulate Items	30	8	Fixed
OSSSC-TC-26	View and Manipulate Customers	20	0	
OSSSC-TC-27	View and Confirm Sales	10	3	Working on it
OSSSC-TC-28	Generate Sale Report	5	1	Fixed

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:Log-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 6 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. We wrote little scripts for TCs and function.

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

5. References

[1]https://developer.android.com/studio
[2]https://www.getpostman.com/