software test plan forsupprotmyphone

Group #1

Mor Hasid – hasid123@gmail.com – 204676332

Tom Zaiger – tomzaiger@hotmail.com – 313579526

Leah Brodsky – Leahbr@ac.sce.ac.il – 318191764

Dor Hazout – hazoutdor@gmail.com – 313560328

Nati Dadon – djroom@me.com – 201062528

Rotem Goldshtein – rotemgoldshtein@gmail.com – 308577188

Roni Goldsmid – ronigoldsmid@gmail.com – 312146343

Zohar Kahlon – zohar1812@gmail.com - 311530059

Software Change Plan

Approvals:

|  |  |  |
| --- | --- | --- |
| Approved By: | Signature: | Date: |
| **Mor Hasid** | **Mor** | **30/12/18** |
|  |  |  |

Document Control

|  |  |
| --- | --- |
| Name: | **STP v2** |
| Document reference No. |  |
| Document Status: |  |
| Date of Issue: | **23.12.2018** |

Change History

|  |  |  |  |
| --- | --- | --- | --- |
| Doc. Version: | Author: | Date: | Description / Change: |
|  |  |  |  |
|  |  |  |  |

Distribution List

|  |  |
| --- | --- |
| Name: | Role: |
|  |  |
|  |  |

# Introduction:

The purpose of this document is to outline the test strategy and overall test approach for the project.

## Test Objectives:

The objective of the test suite is to provide adequate coverage metrics, requirements validation, and system quality data such that sufficient data is provided for those making the decision to release.

## Extent of texts:

The tests referenced herein are written to validate use cases, requirements.

# Scope:

The tests refer to an independent software,

that does not rely on other programs.

# Test Plan Identifier and Document Change Control:

This document refers to first ‘STP’ for ‘SupportMyPhone’ project Version 1.

* Updated to 30.12.18, 10:46.
* Not Final Version.

# Reference:

Black box tests relating to use cases are developed from the use case diagram.

In addition, these tests and all others, relating to SRS and DFD.

|  |  |
| --- | --- |
| **Document reference & Version** | **Document title / description** |
| V2.7 | SRS Document |
| V2.0 | Use - Case diagram |
| V2.0 | DFD |

# Test items:

|  |  |
| --- | --- |
| Test item name: | Test item version No. |
| All functions in the main program. | V1.0 |

## Features to be tested:

|  |  |  |
| --- | --- | --- |
| Feature | Parent Component / System | Overview |
| Login | The main calls to Login function | Representative or manager login to the system. |
| Add new contact | The main calls to Add new contact function | Representative adds new ticket to database. |
| Manage tickets | Belongs to Sort Functions | Representative sorts all tickets by chosen parameter. |
| Common problems report | Belongs to the analysis system | Manager issues most common problems report. |
| Most active contacts report | Belongs to the analysis system | Manager issues most active contacts report |

For each feature we will check integration test between internal functions.

## Features not to be tested:

The system assumes that the input the representative is entering is correct.

Therefore, we will not check the correctness of the input.

# Testing risk register:

|  |  |
| --- | --- |
| Risk ID No. | 1 |
| Summary: | Part of the group does not have the appropriate skills to test the software |
| Probability of Occurrence: | Medium |
| Customer Impact: | Fewer people will test the software and as a result we will lose time |
| Trigger: | Lack of training software testers  Or lack of knowledge of languages |
| Mitigation Action: | Pay more attention to this part of the group and manage the time according to this. |
| Contingency Action: | Overtime work outside the planned time frame |

|  |  |
| --- | --- |
| Risk ID No. | 2 |
| Summary: | Issue wrong report. |
| Probability of Occurrence: | Low. |
| Customer Impact: | None. |
| Trigger: | Wrong data input. |
| Mitigation Action: | Pay more attention, recontact the customer. |
| Contingency Action: | Recontact the customer. |

# Test Approach:

In the test we will use top-down approach and check manually the functionality of the system by chronological order, as arranged in the program menu.

Afterwards, for each feature we will check integration test between internal functions.

Tester will work in pairs, each pair will test different feature.

## Test Data:

In order to cover as much as possible possibilities, one of the testers will make a diverse database.

## Test Environment:

In the testing process, testers will use Visual Studio 2017, And the data from 7.1.

The estimated time for each pair is 3 hours, to test one feature.

# Personnel:

|  |  |  |
| --- | --- | --- |
| Name: | Role: | Responsibility: |
| Mor Hasid | Software Engineer | STP Document/Integration test |
| Dor Hazout | Software Engineer | STP Document/Integration test |
| Rotem Goldshtein | Software Engineer | Test Case |
| Nati Dadon | Software Engineer | Database |
| Leah Brodsky | Software Engineer | Database |
| Tom Zaiger | Software Engineer | Test Case |
| Zohar Kahlon | Software Engineer | Test case |
| Roni Goldsmid | Software Engineer | Test Case |

Additional personnel will not be needed as all members of the team have the skills to do all kind of test. There may be no absences.

In order to not stay on schedule, pairs will be assigned according to average.

# Management and Metrics:

The project manager will be responsible for releasing versions of the system to the testing team.

In addition, project manager will set appointments to check the progress.

## Test Estimation and Schedule:

During the testing we will be committed to a pre-schedule deadline for the test-unit.  
Our approach is with waterfall method, therefore, we have a specific deadline for each part.

## Test Phase Entry and Exit Criteria:

The list of criteria that will form the basis for determining the quality of the software.

### Integration Test Phase Entry Criteria:

* Test Data Complete - One of the testers in our team, created a diverse database in order to check the output from each feature.
* Test Environment – Run the project with VS 2017, and check manually each feature.

### Integration Test Phase Exit Criteria:

* Integration Test - We will write the maximum possible test cases for our system.
* 99% of integration test pass.
* 0 outstanding High severity issues.
* Less than 2 Medium severity issues.
* Less than 4 Low severity issues.

### Acceptance Test Phase Entry Criteria:

* 100% of the tests passed were to examine the functionality of the system defines in the requirements document.

### Acceptance Test Phase Exit Criteria:

* 0 outstanding High severity issues.
* Less than 2 Medium severity issues.
* Less than 4 Low severity issues.

## Suspension and Resumption Criteria:

* If the number of bugs does not decrease while performing more tests.
* Testing team exceed from pre-schedule deadline.

# Test Deliverables:

We completed the tests at the defined times, resulting in a correct division of time for all types of tests,

We found bugs in the code and fixed them while testing.

We learned that time is an important parameter in the testing process.

# Communication Plan:

|  |  |  |
| --- | --- | --- |
| Name: | Role: | Contact details: |
| Mor Hasid | Software Engineer | Email: [hasid123@gmail.com](mailto:hasid123@gmail.com) |
| Dor Hazout | Software Engineer | Email: [hazoutdor@gmail.com](mailto:hazoutdor@gmail.com) |
| Rotem Goldshtein | Software Engineer | Email: [rotemgoldshtein@gmail.com](mailto:rotemgoldshtein@gmail.com) |
| Nati Dadon | Software Engineer | Email: [djroom@me.com](mailto:djroom@me.com%20) |
| Leah Brodsky | Software Engineer | Email: [Leahbr@ac.sce.ac.il](mailto:Leahbr@ac.sce.ac.il) |
| Tom Zaiger | Software Engineer | Email: [tomzaiger@hotmail.com](mailto:tomzaiger@hotmail.com) |
| Zohar Kahlon | Software Engineer | Email: [zohar1812@gmail.com](mailto:zohar1812@gmail.com) |
| Roni Goldsmid | Software Engineer | Email: [ronigoldsmid@gmail.com](mailto:ronigoldsmid@gmail.com) |

# Glossary:

* Ticket - means a detailed customer request for any service from the organization.
* DFD - means data flow diagram.
* SRS - means Software requirements specification.