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REVISION HISTORY

Date	Version	Description	Author
30/10/2020	0.1	Document overview and references are added.	Onur Alaçam Tuğcan Hoşer
31/10/2020	0.2	Hardware preparation is added.	Uygar Kaya Tuna Tuncer
02/11/2020	0.3	Software preparation is added.	Utku Özkan Tuğcan Hoşer
03/11/2020	0.4	Test-001, Test-002 and Test-003 are explained.	Tuna Tuncer Utku Özkan
04/11/2020	0.5	Test-004 and Test-005 are explained.	Onur Alaçam Uygar Kaya
05/11/2020	0.6	Test-006 and Test-007 are explained.	Tuğcan Hoşer Uygar Kaya
06/11/2020	0.7	Test-008 and Test-009 are explained.	Onur Alaçam Tuna Tuncer
07/11/2020	0.8	Test-010 and Test-011 are explained.	Utku Özkan Tuğcan Hoşer
13/11/2020	0.9	Tests descriptions are fixed.	Uygar Kaya Tuna Tuncer
14/11/2020	1.0	Revision history is fixed.	Onur Alaçam Tuğcan Hoşer

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1 Introduction

1.1 Document overview

This document is the software test plan of the FB software development project. It contains the description of tests.

1.2 References

#	Document Identifier	Document Title
[SRS]	FB-SRS-1	FB Software Requirements Specifications
[SDP]	FB-SDP-2	FB Software Development Plan

1.3 Conventions

Each test case will be presented in a table format as shown below:

Test ID	<ID of the test>	
Test description	<A brief description of the test>	
Verified Requirement	<ID numbers of requirements that are to be verified with this test.>	Verification method: <I,A,D,T>
Initial conditions	<The state of software before test>	
Tests inputs	<Input data from any test tool, input files name and location, if any >	
Data collection actions	<Recording and post processing of output data, if any >	
Tests outputs	<Output data files, if any>	
Assumptions and constraints	If any, may be limited access to a tool, license ...	
Expected results and criteria	<list of expected results>	<special criteria to be met by the result, if any>
Test procedure		
Step number	Operator actions	Expected result and evaluation criteria
1	<actions listed row by row>	<expectation after each action if any>
2

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2 Tests preparations

This section contains tasks and recommendations before executing tests.

2.1 Hardware preparation

- Intel Core i7-10750H CPU x64 Bit @ 2.6 GHz, 16 GB RAM, Windows 10 pro, GeForce RTX 2060
- Intel Core i7-9750H CPU x64 Bit @ 2.6 GHz, 16 GB RAM, Windows 10, GeForce GTX 1650

These two laptops will be used for testing.
Database server will be used for testing.

2.2 Software preparation

Windows 10 Pro
Database server application.
IntelliJ Idea IDE will be used for software platforms.

2.3 Other test preparation

None

2.4 Safety, security and privacy precautions

None

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3 Tests descriptions

Test ID	Test-001	
Test description	This will test whether the user can register or not.	
Verified Requirement	SRS-FB-001	Demonstration
Initial conditions	FB software is started and idle.	
Tests inputs	User's input will be about his/her username and password.	
Data collection actions	N/A	
Tests outputs	N/A	
Assumptions and constraints	N/A	
Expected results and criteria	When clicks the register button, register page will be displayed. Check if user can register.	If the same username existed before
Test procedure		
Step number	Operator actions	Expected result and evaluation criteria
1	Start Flappy Bird	FB is started, and Register/Login page will be displayed
2	Click register button	Register page will be displayed
3	Username and password are entered, and OK button is clicked	If the same username existed before, warning box will be displayed. Else login page will be displayed

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Test ID	Test-002	
Test description	This will test whether the user can login or not.	
Verified Requirement	SRS-FB-002	Demonstration
Initial conditions	FB software is started and idle.	
Tests inputs	User's input will be about his/her username and password.	
Data collection actions	N/A	
Tests outputs	N/A	
Assumptions and constraints	N/A	
Expected results and criteria	When clicks the login button, login page will be displayed. Check if user can login.	If the database server contains the username and password entered by the user
Test procedure		
Step number	Operator actions	Expected result and evaluation criteria
1	Start Flappy Bird	FB is started, and Register/Login page will be displayed
2	Click login button	Login page will be displayed
3	Username and password are entered, and OK button is clicked	If the database server contains the username and password entered by the user, start page will be displayed. Else alert box will be displayed

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Test ID	Test-003	
Test description	This will test when the user clicks the start button, will the game start or not.	
Verified Requirement	SRS-FB-003	Demonstration
Initial conditions	FB software is started and idle.	
Tests inputs	User's input will be click.	
Data collection actions	N/A	
Tests outputs	N/A	
Assumptions and constraints	N/A	
Expected results and criteria	When clicks the start button, the game will be started.	
Test procedure		
Step number	Operator actions	Expected result and evaluation criteria
1	Start Flappy Bird	FB is started, and Register/Login page will be displayed
2	Click login button	Login page will be displayed
3	Username and password are entered, and OK button is clicked	If the database server contains the username and password entered by the user, start page will be displayed. Else alert box will be displayed
4	Click start button	Game page will be displayed

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Test ID	Test-004	
Test description	This will test whether the bird jumps when the user clicks the screen.	
Verified Requirement	SRS-FB-004	Demonstration
Initial conditions	FB software is started and idle.	
Tests inputs	User's input will be click.	
Data collection actions	N/A	
Tests outputs	N/A	
Assumptions and constraints	N/A	
Expected results and criteria	When clicks the screen, the bird will be jumped.	
Test procedure		
Step number	Operator actions	Expected result and evaluation criteria
1	Start Flappy Bird	FB is started, and Register/Login page will be displayed
2	Click login button	Login page will be displayed
3	Username and password are entered, and OK button is clicked	If the database server contains the username and password entered by the user, start page will be displayed. Else alert box will be displayed
4	Click start button	Game page will be displayed
5	Click screen	The bird will be jumped

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Test ID	Test-005	
Test description	This will test whether the bird drop when the user does not click the screen.	
Verified Requirement	SRS-FB-005	Demonstration
Initial conditions	FB software is started and idle.	
Tests inputs	User's input will be not click	
Data collection actions	N/A	
Tests outputs	N/A	
Assumptions and constraints	N/A	
Expected results and criteria	When the user does not click the screen, the bird will be dropped.	
Test procedure		
Step number	Operator actions	Expected result and evaluation criteria
1	Start Flappy Bird	FB is started, and Register/Login page will be displayed
2	Click login button	Login page will be displayed
3	Username and password are entered, and OK button is clicked	If the database server contains the username and password entered by the user, start page will be displayed. Else alert box will be displayed
4	Click start button	Game page will be displayed
5	Does not click screen	The bird will be dropped

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Test ID	Test-006	
Test description	This will test whether count is increased by one when the bird is passing through the barriers.	
Verified Requirement	SRS-FB-006	Demonstration
Initial conditions	FB software is started and idle.	
Tests inputs	User's input will be click.	
Data collection actions	N/A	
Tests outputs	N/A	
Assumptions and constraints	N/A	
Expected results and criteria	When the bird is passing through the barriers, count is incremented by one.	
Test procedure		
Step number	Operator actions	Expected result and evaluation criteria
1	Start Flappy Bird	FB is started, and Register/Login page will be displayed
2	Click login button	Login page will be displayed
3	Username and password are entered, and OK button is clicked	If the database server contains the username and password entered by the user, start page will be displayed. Else alert box will be displayed
4	Click start button	Game page will be displayed
5	Click screen	The bird is jumped
6	Pass the bird through barriers	Count will be increased by one

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Test ID	Test-007	
Test description	This will test whether the game end when the bird hits the barrier or falls to the ground.	
Verified Requirement	SRS-FB-007	Demonstration
Initial conditions	FB software is started and idle.	
Tests inputs	User's input will be click.	
Data collection actions	N/A	
Tests outputs	N/A	
Assumptions and constraints	N/A	
Expected results and criteria	When the bird hits the barrier or falls to the ground, the game will be end.	
Test procedure		
Step number	Operator actions	Expected result and evaluation criteria
1	Start Flappy Bird	FB is started, and Register/Login page will be displayed
2	Click login button	Login page will be displayed
3	Username and password are entered, and OK button is clicked	If the database server contains the username and password entered by the user, start page will be displayed. Else alert box will be displayed
4	Click start button	Game page will be displayed
5	Click screen	The bird will be jumped
6	Hit the bird on the barrier or the ground	Game page will be ended

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Test ID	Test-008	
Test description	This will test whether scores which is counted per game display at the end of the game.	
Verified Requirement	SRS-FB-008	Demonstration, Test
Initial conditions	FB software is started and idle.	
Tests inputs	User's input will be click.	
Data collection actions	Stopwatch.	
Tests outputs	N/A	
Assumptions and constraints	The user's time to view his/her score at the end of the game must be under 1 second.	
Expected results and criteria	When the game is end, the score will be viewed.	
Test procedure		
Step number	Operator actions	Expected result and evaluation criteria
1	Start Flappy Bird	FB is started, and Register/Login page will be displayed
2	Click login button	Login page will be displayed
3	Username and password are entered, and OK button is clicked	If the database server contains the username and password entered by the user, start page will be displayed. Else alert box will be displayed
4	Click start button	Game page will be displayed
5	Click screen	The bird will be jumped
6	Hit the bird on the barrier or the ground	Game page will be ended, and score will be displayed

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Test ID	Test-009	
Test description	This will test when the user clicks the restart button, will the game start again or not.	
Verified Requirement	SRS-FB-009	Demonstration
Initial conditions	FB software is started and idle.	
Tests inputs	User's input will be click.	
Data collection actions	N/A	
Tests outputs	N/A	
Assumptions and constraints	N/A	
Expected results and criteria	When clicks the restart button, the game will be started again.	
Test procedure		
Step number	Operator actions	Expected result and evaluation criteria
1	Start Flappy Bird	FB is started, and Register/Login page will be displayed
2	Click login button	Login page will be displayed
3	Username and password are entered, and OK button is clicked	If the database server contains the username and password entered by the user, start page will be displayed. Else alert box will be displayed
4	Click start button	Game page will be displayed
5	Click screen	The bird will be jumped
6	Hit the bird on the barrier or the ground	Game page will be ended, and score will be displayed
7	Click restart button	Game page will be started again

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Test ID	Test-010	
Test description	This will test when the user clicks the leaderboard button, will the leaderboard page be displayed or not.	
Verified Requirement	SRS-FB-010	Demonstration
Initial conditions	FB software is started and idle.	
Tests inputs	User's input will be click.	
Data collection actions	N/A	
Tests outputs	N/A	
Assumptions and constraints	N/A	
Expected results and criteria	When clicks the leaderboard button, the leaderboard page will be shown.	
Test procedure		
Step number	Operator actions	Expected result and evaluation criteria
1	Start Flappy Bird	FB is started, and Register/Login page will be displayed
2	Click login button	Login page will be displayed
3	Username and password are entered, and OK button is clicked	If the database server contains the username and password entered by the user, start page will be displayed. Else alert box will be displayed
4	Click leaderboard button	Leaderboard page will be displayed

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Test ID	Test-011	
Test description	This will test when user clicks the exit button, will the game be closed and the user logout automatically.	
Verified Requirement	SRS-FB-011	Demonstration
Initial conditions	FB software is started and idle.	
Tests inputs	User's input will be click.	
Data collection actions	N/A	
Tests outputs	N/A	
Assumptions and constraints	N/A	
Expected results and criteria	When clicks the exit button, the game will be closed, and the user will be log out automatically.	
Test procedure		
Step number	Operator actions	Expected result and evaluation criteria
1	Start Flappy Bird	FB is started, and Register/Login page will be displayed
2	Click login button	Login page will be displayed
3	Username and password are entered, and OK button is clicked	If the database server contains the username and password entered by the user, start page will be displayed. Else alert box will be displayed
4	Click exit button	Game will be closed