Author: Domn Werner (wern0096) Class: CS383-01 Date:04/25/2016 Assignment: HW#7 Test Plan

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# 1 MTP01 - sQuire Master Test Plan

## 2 References

This test plan references the following documents:

• sQuire SSRS document.

### 3 Introduction

The purpose of this test plan is to provide a outline and provide reference for developers testing the complete sQuire program. This document is currently a standalone, but will be integrated with the SSRS document before the final submission. This document covers sQuire's logic tests, GUI tests, back-end tests, coverage tests, and any additional testing methods deemed necessary to ascertain that the complete sQuire software program adheres to our group's acceptable quality standard.

# 4 Logic Testing

The purpose of this section of tests is to list and describe logic tests in the sQuire program and the required output deemed as a "pass". These include algorithmic functions, arithmetic functions, validator functions, and other pieces of functionality that can easily be decoupled from the main project and/or reused as part of different projects.

#### 4.1 Test Classes

Table 1: PasswordHashTest

Function Name	Description	Pass Criteria
createHash()	Verifies that the hashing algorithm does	A false assertion that all hashes created
	not create colliding hashes.	inside this function are different.
validatePasswor()	Verifies that the Password-	A true assertion that the a valid pass-
	Hash.validatePassword() function	word and hash were validated. A false
	correctly authenticates a user based on	assertion that an invalid password and
	their hashes password.	hash were validated.

Table 2: EditorControllerTest (dani2918)

Function Name	Description	Pass Criteria
testSetupMobWrite()	Verifies that we can set up mobwrite	Successful creation of mobwrite compo-
	components with various names.	nents with various names constitutes a
		success.

Table 3: NewProjectControllerTest (dani2918)

Function Name	Description	Pass Criteria
testInitProjectFields	Verifies that projects with various	Successful creation of project directory
	names and descriptions (in the form of	inside a test directory constitutes a
strings due to the controller class's use		passing test.
of strings from TextFields) are properly		
	created.	
testCopyMainFile()	Verifies that the initial dummy Main	Existence of the file at the specified lo-
	"Hello World" class is successfully	cation constitutes a passing test.
	copied into a directory.	

Other logic test tables here...

Table 4: EditorControllerTest (dani2918)

Function Name	Result	Description
testSetupMobWrite()	FAILURE	Attempting to create a new CodeArea, which the setup-
		MobWrite function requires as a parameter, was not working in the test class. Further investigation will be required to determine whether the function works properly.

Table 5: NewProjectControllerTest (dani2918)

Function Name	Result	Description
testInitProjectFields	()FAILURE	The test fails when attempting to create a project based
		upon the empty string as a title. We will have to imple-
		ment logic to ensure that a user enters a project title in
		the appropriate field. This is the only case of those tested
		which caused a failure.
testCopyMainFile()	PASS	The copied file existed with multiple attempts.

The result of these tests should go here.

# 5 GUI Testing

This section governs our GUI unit tests and the required output deemed as a "pass". Since we are using the JavaFX framework, every test case requires an initialization step of loading the .fxml file for the GUI scene to be tested. Once it is loaded we perform tests on individual parts of the scene using the TestFX libraries that integrate with JUnit.

#### 5.1 Test Classes

Table 6: HomeTest (wern0096)

Function Name	Description	Pass Criteria
verifyUiElementsLoaded()	Checks that every UI element	No exceptions thrown by the
	loaded properly.	verifyThat() function calls.

#### Table 7: EditorTest (wern0096)

	(	,	
Function Name	Description		Pass Criteria

Table 8: NewProjectTest (dani2918)

Function Name	Description	Pass Criteria
verifyUiElementsLoaded()	Checks that every UI element	No exceptions thrown by the
	loaded properly.	verifyThat() function calls.

Other GUI Test tables here...

The result of these tests should go here.

Table 9: NewProjectTest (dani2918)

Function Name	Description	Pass Criteria	
verifyUiElementsLoaded()	PASS	No exceptions were	
		thrown after loading all	
		elements from the FXML	
		file.	

# 6 Back-end Testing

This section governs any tests aimed at our database(s) or server(s) and the required output deemed as a "pass".

### 6.1 Test Classes

### Table 10: MobWriteClientTest (ratc8795)

		,
Function Name	Description	Pass Criteria

#### Table 11: MobWriteServerTest (ratc8795)

	( )	/
Function Name	Description	Pass Criteria

### Table 12: SessionTest (ratc8795)

Function Name	Description	Pass Criteria

Table 13: UserTest (ratc8795)

Function Name	Description	Pass Criteria

Table 14: ProjectDatabaseTest (cart1189)

ſ	Function Name	Description	Pass Criteria

The result of these tests should go here.

# 7 Coverage Testing

## 7.1 Methodology

How are we doing it? We should just "Run with coverage" in IntelliJ and go through the program manually.

Figure out a way of exporting the results from IntelliJ.

# 8 Software Risk Issues (wern0096)

What are the critical areas of our software?

# 9 Features To Be Tested

Take the intersection of the SSRS document and what we are testing in our current tests.

## 10 Features Not To Be Tested

Take the intersection of the SSRS document and what we ARENT testing in our current tests. Make sure to explain WHY we aren't testing those pieces of functionality.