



Team 15

Easy C++
Software Test Plan (STP)
Version: 1.0
Gmn_SE15_v1.0

Revision History

Sl. No.	Prepared/ Modified by	E-mail	Version	Date	Approved by	Descriptions/ Remarks
1.	Kareem Omar	kareemomar96@gmail.com	1.0	27/3/2018	Awaiting approval	

Easy C++	CM-identifier: Gmn_SE15_v1.0
Software Test Plan	Date: 27/3/2018

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Easy C++	CM-identifier: Gmn_SE15_v1.0
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Table of Contents

1. Overview	5
2. Test Methodology	5
2.1 Testing Environment	5
2.2 Functional Testing	5
2.3 Non-functional Testing	25
2.3.1 Performance Testing	25
2.3.2 Quality Testing	25
2.3.3 Interface Testing	25
3. References	26
4. Glossary	26
Appendices	26

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1. Overview

The objective of the following test is to ensure that the final product is functioning as intended. We will test (have tested) the project on many levels and aspects which will be described in section 2 in this document.

2. Test Methodology

2.1 Testing Environment

The entirety of test below is done manually either by building the app and testing the required functionality (in functional testing), or by weighing actual non-functional requirements against expected values (also manually). The android emulator built-in with Android Studio© with used in conjunction with the team's phones.

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2.2 Functional Testing

Functional Testing will include a test cases with the purpose of testing an activity or a view.

TC_001	Running test
Purpose:	Making sure that the app starts and shows the main activity
Prerequisite:	none
Priority:	High Priority
Steps:	After building the app the tester runs it either in a simulator or on an actual device.
Expected Results:	Program runs and starts successfully. Login screen shows.
Actual Results:	Program runs and starts successfully. Login screen shows.
State:	pass
Issue #:	None (in the current build)
Execution Date:	6-4-2018
Build Version:	The CVS version where this test case is executed
Notes and Questions:	
Tester Name:	Kareem Omar

TC_002a	Registration test (empty)
Purpose:	Empty fields are checked in registration
Prerequisite:	Ability to start app
Priority:	High Priority
Steps:	1-opening the app 2-tapping on registration button 3-leaving field(s) empty 4-press create account
Expected Results:	Message show “please fill the required fields”
Actual Results:	Message show “please fill the required fields”
State:	pass
Issue #:	none
Execution Date:	6-4-2018
Build Version:	The CVS version where this test case is executed
Notes and Questions:	
Tester Name:	Kareem Omar

TC_002b	Registration test (incorrect email)
Purpose:	Incorrect email address check
Prerequisite:	Ability to start app
Priority:	High Priority
Steps:	1-opening the app 2-tapping on registration button 3-enter invalid email 4-press create account
Expected Results:	Message show “please enter real email”
Actual Results:	Message show “please enter real email”
State:	pass
Issue #:	none
Execution Date:	6-4-2018
Build Version:	The CVS version where this test case is executed
Notes and Questions:	
Tester Name:	Kareem Omar

TC_002c	Registration test (insecure pass)
Purpose:	Short and insecure passwords are checked
Prerequisite:	Ability to start app
Priority:	High Priority
Steps:	1-opening the app 2-tapping on registration button 3-enter valid data but insecure password 4-press create account
Expected Results:	Message show “please enter a more secure password”
Actual Results:	Message show “please enter a more secure password”
State:	pass
Issue #:	none
Execution Date:	6-4-2018
Build Version:	The CVS version where this test case is executed
Notes and Questions:	
Tester Name:	Kareem Omar

TC_002d	Registration test (valid)
Purpose:	Intended behavior in case of valid data
Prerequisite:	Ability to start app
Priority:	High Priority
Steps:	1-opening the app 2-tapping on registration button 3-enter valid data (pass, email,...etc) 4-press create account
Expected Results:	Message show "wait while we check username"
Actual Results:	Message show "wait while we check username"
State:	pass
Issue #:	none
Execution Date:	6-4-2018
Build Version:	The CVS version where this test case is executed
Notes and Questions:	
Tester Name:	Kareem Omar

TC_003a	Login test (empty fields)
Purpose:	Test response in case of empty fields at login
Prerequisite:	Ability to start app
Priority:	High Priority
Steps:	1-open app 2-leave username / password field(s) empty 3-press log in
Expected Results:	Message show “you did not enter a user name or a password”
Actual Results:	Message show “you did not enter a user name or a password”
State:	pass
Issue #:	none
Execution Date:	6-4-2018
Build Version:	The CVS version where this test case is executed
Notes and Questions:	
Tester Name:	Kareem Omar

TC_003b	Login test (incorrect data)
Purpose:	Test response in case of empty fields at login
Prerequisite:	Ability to start app
Priority:	High Priority
Steps:	1-open app 2-enter incorrect data 3-press log in
Expected Results:	Message show “user name or password is incorrect”
Actual Results:	Message show “user name or password is incorrect”
State:	pass
Issue #:	none
Execution Date:	6-4-2018
Build Version:	The CVS version where this test case is executed
Notes and Questions:	
Tester Name:	Kareem Omar

TC_003c	Login test (correct data)
Purpose:	Test response in case of empty fields at login
Prerequisite:	Having an account in the database
Priority:	High Priority
Steps:	1-open app 2-enter correct username/password 3-press log in
Expected Results:	Opens home screen
Actual Results:	Opens home screen
State:	pass
Issue #:	none
Execution Date:	6-4-2018
Build Version:	The CVS version where this test case is executed
Notes and Questions:	
Tester Name:	Kareem Omar

TC_004a	Change username (new name not in the database)
Purpose:	Testing changing username
Prerequisite:	Logging in successfully
Priority:	Low Priority
Steps:	1-logging in 2-open options menu 3-changing username with original name
Expected Results:	showing new username on logging in again
Actual Results:	showing new username on logging in again
State:	pass
Issue #:	none
Execution Date:	The date of execution of this test case
Build Version:	The CVS version where this test case is executed
Notes and Questions:	
Tester Name:	

TC_004b	Change username (new name already exists)
Purpose:	Testing changing username with one that already exists in the database
Prerequisite:	Logging in successfully
Priority:	Low Priority
Steps:	1-logging in 2-open options menu 3-changing username with unoriginal one (to the database)
Expected Results:	Error message that the name already exists
Actual Results:	Error message that the name already exists
State:	pass
Issue #:	none
Execution Date:	The date of execution of this test case
Build Version:	The CVS version where this test case is executed
Notes and Questions:	
Tester Name:	

TC_004c	Change password(old pass verification)
Purpose:	Testing changing password using old password on signing in again
Prerequisite:	Logging in successfully
Priority:	Low Priority
Steps:	1-logging in 2-open options menu 3-changing password 4-sign out 5-sign in with old password
Expected Results:	Message shows “incorrect password”
Actual Results:	Message shows “incorrect password”
State:	pass
Issue #:	none
Execution Date:	The date of execution of this test case
Build Version:	The CVS version where this test case is executed
Notes and Questions:	
Tester Name:	

TC_004d	Change password(new pass verification)
Purpose:	Testing changing password using old password on signing in again
Prerequisite:	Logging in successfully
Priority:	Low Priority
Steps:	1-logging in 2-open options menu 3-changing password 4-sign out 5-sign in with new password
Expected Results:	Home screen opens
Actual Results:	Home screen opens
State:	pass
Issue #:	none
Execution Date:	The date of execution of this test case
Build Version:	The CVS version where this test case is executed
Notes and Questions:	
Tester Name:	

TC_005a	Categories activity test
Purpose:	Categories screen display correct information.
Prerequisite:	Logged in as student successfully
Priority:	High Priority
Steps:	1-opening categories 2-validation
Expected Results:	Screen shows categories in order
Actual Results:	Screen shows categories in order
State:	pass
Issue #:	none
Execution Date:	The date of execution of this test case
Build Version:	The CVS version where this test case is executed
Notes and Questions:	
Tester Name:	

TC_005b	Categories sub-topics test
Purpose:	Categories show their sub topics
Prerequisite:	Categories activity opens successfully
Priority:	High Priority
Steps:	1-opening categories 2-choose category 3-validate 4-repeat 2,3
Expected Results:	Each category displays its topics in order
Actual Results:	Each category displays its topics in order
State:	pass
Issue #:	none
Execution Date:	The date of execution of this test case
Build Version:	The CVS version where this test case is executed
Notes and Questions:	
Tester Name:	

TC_005c	Categories topics test
Purpose:	topics screen display correct information.
Prerequisite:	Categories activity is functional
Priority:	High Priority
Steps:	1-opening categories 2-choose category 3-choose topic 4-validate 5-repeat 2,3,4
Expected Results:	Screen shows each topic's code, explanation and output
Actual Results:	Screen shows each topic's code, explanation and output
State:	pass
Issue #:	none
Execution Date:	The date of execution of this test case
Build Version:	The CVS version where this test case is executed
Notes and Questions:	
Tester Name:	

TC_006a	Admin test (home screen)
Purpose:	Tests administrator's home screen
Prerequisite:	App starts successfully
Priority:	High Priority
Steps:	1-log in with admin's username and password 2- validate
Expected Results:	1-admin's page opens and shows requests and opinions
Actual Results:	1-admin's page opens and shows requests and opinions
State:	pass
Issue #:	none
Execution Date:	The date of execution of this test case
Build Version:	The CVS version where this test case is executed
Notes and Questions:	
Tester Name:	

TC_006b	Admin test (refuse request)
Purpose:	Tests administrator's refusal of a request
Prerequisite:	Admin's home page is functional
Priority:	High Priority
Steps:	1- register a new instructor's account 2-log in with admin's username and password 3-open requests 4-refuse the request
Expected Results:	-request shows in the requests activity -trying to log in with refused account fails
Actual Results:	-request shows in the requests activity -trying to log in with refused account fails
State:	pass
Issue #:	none
Execution Date:	The date of execution of this test case
Build Version:	The CVS version where this test case is executed
Notes and Questions:	
Tester Name:	

TC_006b	Admin test (accept request)
Purpose:	Tests administrator's refusal of a request
Prerequisite:	Admin's home page is functional
Priority:	High Priority
Steps:	1- register a new instructor's account 2-log in with admin's username and password 3-open requests 4-accept the request
Expected Results:	-request shows in the requests activity -trying to log in with refused account succeeds
Actual Results:	-request shows in the requests activity -trying to log in with refused account succeeds
State:	pass
Issue #:	none
Execution Date:	The date of execution of this test case
Build Version:	The CVS version where this test case is executed
Notes and Questions:	
Tester Name:	

TC_006d	Admin test (opinions)
Purpose:	Tests administrator's opinions activity
Prerequisite:	Admin's home page is functional
Priority:	High Priority
Steps:	1-log in with admin's username and password 2-open opinions activity 3-log in as instructor and submit an opinion 4-reopen opinions activity
Expected Results:	New opinion shows in the opinions activity
Actual Results:	New opinion shows in the opinions activity
State:	pass
Issue #:	none
Execution Date:	The date of execution of this test case
Build Version:	The CVS version where this test case is executed
Notes and Questions:	
Tester Name:	

2.3 Non-functional Testing

2.3.1 *Performance Testing*

The projects performance has no definitive specific measure of performance, so performance testing will be in the form of checking for lags and their cause.

2.3.2 *Quality Testing*

At the current version(Version 1.0) “polish” is not a major point in development but will it be put on the final version’s task board.

2.3.3 *Interface Testing*

The interface testing (input is correct and accurate, no visual distortion, etc...) are glanced at while doing the functional testing. A more thorough interface testing will be present in the final build of the app

3. References

<https://developer.android.com/studio/index.html>

4. Glossary

US: User Story

Appendices

None in the current build of the app