

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](mailto:kareemomar96@gmail.com) | 1.0 | 27/3/2018 | Awaiting approval |  |

Distribution list

|  |  |  |
| --- | --- | --- |
| **Name** | **E-mail** | **Notes** |
| Eng. Ali Elseddeek | [alielseddeek@gmail.com](mailto:alielseddeek@gmail.com) | For approval |

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# 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.

# Test Methodology

## 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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## Functional Testing

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

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| **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** | |

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| **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** | |

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| **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** | |

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| **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** | |

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| **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** | |

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| **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** | |

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| **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** | |

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| **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** | |

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| **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:** | |  | |

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| **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:** | |  | |

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| **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:** | |  | |

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| **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:** | |  | |

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| **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:** | |  |

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| **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:** | |  |

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| **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:** | |  |

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| **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:** | |  |

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| **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:** | |  |

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| **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:** | |  |

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| **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:** | |  |

## Non-functional Testing

### 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.

### 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.

### 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

# References

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

# Glossary

US: User Story

# Appendices

None in the current build of the app