

**Team#4 Credit**

**Sprouts Team #4 Credit STP 1.4 Sprouts\_SE04STP2018\_i1 04/09 /2018**

**Sprouts Statement of Work 1.4 Sprouts\_SE04STP2018\_i1 04/09/2018**

**Sprouts  
Software Test Plan (STP)  
 Team #4 Credit Sprouts 1.4 Sprouts\_SE04STP2018\_i1**

**04/09/2018 Version: 1.4  
CM Identifier: Sprouts\_SE04STP2018\_i1**

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| **Sl. No.** | **Prepared/**  **Modified by** | **E-mail** | **Version** | **Date** | **Approved by** | **Descriptions/**  **Remarks** |
| 1. | Amira Ahmed | amira.a.amer@gmail.com | 1.0 | 04/06/2018 |  | Overview+ Registration test cases |
| 2. | Sahar Hossam | s7r\_hossam@hotmail.com | 1.1 | 04/07/2018 |  | Login test cases |
| 3. | Salma Hanafy | salmahanafyahmed@gmail.com | 1.2 | 04/08/2018 |  | Changing password and adding classes test cases |
| 4. | Mohammed Hamdy | Hamdymohammed146@gmail.com | 1.3 | 04/08/2018 |  | View schedule and enrolling test cases |
| 5. | Amira Ahmed | amira.a.amer@gmail.com | 1.4 | 04/09/2018 | Eng.Ali El Seddeek | Performance test |

**Distribution list**

|  |  |  |
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Software Test Plan

# Overview

## Objective

Validate that the developed functionalities meet the corresponding uses cases stated in the SRS[1]. Assess the quality of the developed program and that all system components are functioning together.

## Test Scope

Test plan is limited to the requirements of Sprouts iteration 1.

## Approach

Unit testing is done on each component using manual testing. A system test is done after integrating all components. Regression test is done on old components which units under test are dependent on or interact with to trace the source of the error easily.

# Test Methodology

## Testing Environment

Testing will be done locally using a local server and MySQL database to run the website.Functional requirements will be tested manually and performance will be tested using requests and responses captured by Fiddler.

## Functional Testing

a.

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| **TC-1** | **Register a student** |
| **Purpose:** | User can register as a student easily by filling the required information |
| **Prerequisite:** | None |
| **Priority:** | **High Priority** |
| **Steps:** | 1-Go to the signup section  2-Fill in the name,email and password  3-Press signup |
| **Expected Results:** | “You Signed Up Successfully” message appears |
| **Actual Results:** | “You Signed Up Successfully” message appeared |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/06/2018 |
| **Build Version:** | 1.0 |
| **Questions and notes:** |  |
| **Tester Name:** | Amira Ahmed |

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| **TC-2** | **Add a volunteer** |
| **Purpose:** | Add a volunteer easily by filling the required information |
| **Prerequisite:** | Signed in as admin |
| **Priority:** | **High Priority** |
| **Steps:** | 1-Open the admin homepage  2-Click Add Instructor tab  3-Insert all needed information  4-Press add |
| **Expected Results:** | 'The instructor is inserted successfully' message appears |
| **Actual Results:** | 'The instructor is inserted successfully' message appeared |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/06/2018 |
| **Build Version:** | 1.0 |
| **Questions and notes:** |  |
| **Tester Name:** | Amira Ahmed |

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| **TC-3** | **Add an admin** |
| **Purpose:** | Add a new admin to the system |
| **Prerequisite:** | Signed in as admin |
| **Priority:** | **High Priority** |
| **Steps:** | 1-Open the admin homepage  2-Click Add Administrator tab  3-Insert all needed information  4-Press add |
| **Expected Results:** | 'The Admin is added successfully' message appears |
| **Actual Results:** | 'The Admin is added successfully' message appeared |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/06/2018 |
| **Build Version:** | 1.0 |
| **Questions and notes:** |  |
| **Tester Name:** | Amira Ahmed |

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| **TC-4** | **Register with an existing email** |
| **Purpose:** | User cannot register with an existing email |
| **Prerequisite:** | None |
| **Priority:** | **High Priority** |
| **Steps:** | 1-Go to the sign up section  2-Fill in the information with an existing email  3-Press sign up |
| **Expected Results:** | ‘email already exists’ message appears |
| **Actual Results:** | ‘email already exists’ message appears |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/06/2018 |
| **Build Version:** | 1.0 |
| **Questions and notes:** |  |
| **Tester Name:** | Amira Ahmed |

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| **TC-5** | **Register with mismatching password and confirmation** |
| **Purpose:** | Password and confirmation must match |
| **Prerequisite:** | None |
| **Priority:** | **High Priority** |
| **Steps:** | 1-Go to the sign up section  2-Fill in the information with confirmation password different from the original password  3-Press sign up |
| **Expected Results:** | ‘Passwords do not match’ message appears |
| **Actual Results:** | ‘Passwords do not match’ message appears |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/06/2018 |
| **Build Version:** | 1.0 |
| **Questions and notes:** |  |
| **Tester Name:** | Amira Ahmed |

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| **TC-6** | **Register with missing information** |
| **Purpose:** | All information must be included to be able to register |
| **Prerequisite:** | None |
| **Priority:** | **High Priority** |
| **Steps:** | 1-Go to the sign up section  2-Leave some fields empty  3-Press sign up |
| **Expected Results:** | ‘Please fill this field’ message appears at the field with the missing data |
| **Actual Results:** | ‘Please fill this field’ message appeared at the field with the missing data |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/06/2018 |
| **Build Version:** | 1.0 |
| **Questions and notes:** |  |
| **Tester Name:** | Amira Ahmed |

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| **TC-7** | **Login as Admin** |
| **Purpose:** | Given a correct email and password admin should be able to login to their account |
| **Prerequisite:** | Have an admin account |
| **Priority:** | **High Priority** |
| **Steps:** | 1-Enter correct email and password for an admin  2-Press sign in |
| **Expected Results:** | Load admin homepage |
| **Actual Results:** | Loaded admin homepage |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/05/2018 |
| **Build Version:** | 1.0 |
| **Questions and notes:** |  |
| **Tester Name:** | Sahar Hossam |

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| **TC-8** | **Login as student** |
| **Purpose:** | Given a correct email and password student should be able to login to their account |
| **Prerequisite:** | Have an student account |
| **Priority:** | **High Priority** |
| **Steps:** | 1-Enter correct email and password for a student  2-Press sign in |
| **Expected Results:** | Load student homepage |
| **Actual Results:** | Loaded student homepage |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/07/2018 |
| **Build Version:** | 1.0 |
| **Questions and notes:** |  |
| **Tester Name:** | Sahar Hossam |

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| **TC-9** | **Login as Volunteer** |
| **Purpose:** | Given a correct email and password volunteer should be able to login to their account |
| **Prerequisite:** | Have an volunteer account |
| **Priority:** | **High Priority** |
| **Steps:** | 1-Enter correct email and password for a volunteer  2-Press sign in |
| **Expected Results:** | Load volunteer homepage |
| **Actual Results:** | Loaded volunteer homepage |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/07/2018 |
| **Build Version:** | 1.0 |
| **Questions and notes:** |  |
| **Tester Name:** | Sahar Hossam |

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| **TC-10** | **Login with false credentials** |
| **Purpose:** | System should login only correct credentials |
| **Prerequisite:** | None |
| **Priority:** | **High Priority** |
| **Steps:** | 1-Enter an incorrect email or password  2-Press sign in |
| **Expected Results:** | 'Invalid email or password' message appears |
| **Actual Results:** | 'Invalid email or password' message appeared |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/07/2018 |
| **Build Version:** | 1.0 |
| **Questions and notes:** |  |
| **Tester Name:** | Sahar Hossam |

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| **TC-11** | **Login with missing credentials** |
| **Purpose:** | Users cannot login without entering an email and password |
| **Prerequisite:** | None |
| **Priority:** | **High Priority** |
| **Steps:** | 1-Enter an incorrect email or password  2-Press sign in |
| **Expected Results:** | ‘Please fill this field’ message appears at the field with the missing data |
| **Actual Results:** | ‘Please fill this field’ message appeared at the field with the missing data |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/07/2018 |
| **Build Version:** | 1.0 |
| **Questions and notes:** |  |
| **Tester Name:** | Sahar Hossam |

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| **TC-12** | **Admin change password** |
| **Purpose:** | Admin should be able to change their password |
| **Prerequisite:** | Logged in as admin |
| **Priority:** | **Low Priority** |
| **Steps:** | 1-Press change password tab  2-Enter old password  3-Enter new password and confirmation  4-Press submit |
| **Expected Results:** | ‘The Password changed successfully’ message appears |
| **Actual Results:** | ‘The Password changed successfully’ message appeared |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/08/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Salma Hanafy |

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| **TC-13** | **Volunteer change password** |
| **Purpose:** | Volunteer should be able to change their password |
| **Prerequisite:** | Logged in as volunteer |
| **Priority:** | **Low Priority** |
| **Steps:** | 1-Press change password tab  2-Enter old password  3-Enter new password and confirmation  4-Press submit |
| **Expected Results:** | ‘The Password changed successfully’ message appears |
| **Actual Results:** | ‘The Password changed successfully’ message appeared |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/08/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Salma Hanafy |

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| **TC-14** | **Student change password** |
| **Purpose:** | Student should be able to change their password |
| **Prerequisite:** | Logged in as student |
| **Priority:** | **Low Priority** |
| **Steps:** | 1-Press change password tab  2-Enter old password  3-Enter new password and confirmation  4-Press submit |
| **Expected Results:** | ‘The Password changed successfully’ message appears |
| **Actual Results:** | ‘The Password changed successfully’ message appeared |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/08/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Salma Hanafy |

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| **TC-15** | **Use wrong old pass to change password** |
| **Purpose:** | User must enter a correct old password to change the password |
| **Prerequisite:** | Logged in |
| **Priority:** | **Low Priority** |
| **Steps:** | 1-Press change password tab  2-Enter an incorrect old password  3-Enter new password and confirmation  4-Press submit |
| **Expected Results:** | ‘Incorrect password’ message appears |
| **Actual Results:** | ‘Incorrect password’ message appeared |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/08/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Salma Hanafy |

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| **TC-16** | **Mismatching new password and confirmation** |
| **Purpose:** | New password and confirmation must be the same |
| **Prerequisite:** | Logged in |
| **Priority:** | **Low Priority** |
| **Steps:** | 1-Press change password tab  2-Enter an old password  3-Enter new password and confirmation that are mismatching  4-Press submit |
| **Expected Results:** | ‘Passwords do not match’ message appears |
| **Actual Results:** | ‘Passwords do not match’ message appeared |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/08/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Salma Hanafy |

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| **TC-17** | **Add a class to a slot** |
| **Purpose:** | Admin can add a class to an empty slot |
| **Prerequisite:** | Logged in as an admin |
| **Priority:** | **High Priority** |
| **Steps:** | 1-Press create schedule tab  2-Press add slot in any day  3-Fill the time and course  4-Press submit |
| **Expected Results:** | ‘Slot is inserted in the schedule successfully’ message appears |
| **Actual Results:** | ‘Slot is inserted in the schedule successfully’ message appeared |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/08/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Salma Hanafy |

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| **TC-18** | **Add a class to an occupied slot** |
| **Purpose:** | Admin cannot add two classes in the same slot |
| **Prerequisite:** | Logged in as an admin |
| **Priority:** | **Low Priority** |
| **Steps:** | 1-Press create schedule tab  2-Press add slot in any day that has a class  3-Fill time overlapping with other class  4-Press submit |
| **Expected Results:** | ‘Slot overlaps another slot’ message appears |
| **Actual Results:** | ‘Slot overlaps another slot’ message appeared |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/08/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Salma Hanafy |

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| **TC-19** | **Add a class with invalid date and/or time** |
| **Purpose:** | Admin cannot add class in an invalid time |
| **Prerequisite:** | Logged in as an admin |
| **Priority:** | **Low Priority** |
| **Steps:** | 1-Press create schedule tab  2-Press add slot in any day  3-Fill with an invalid time(over 24,empty)  4-Press submit |
| **Expected Results:** | 'Please enter a valid time slot' message appears |
| **Actual Results:** | 'Please enter a valid time slot' message appeared |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/08/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Salma Hanafy |

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| **TC-20** | **Add a class with start time before end time** |
| **Purpose:** | Admin cannot add with start time before end time |
| **Prerequisite:** | Logged in as an admin |
| **Priority:** | **Low Priority** |
| **Steps:** | 1-Press create schedule tab  2-Press add slot in any day  3-Fill with start time before end time  4-Press submit |
| **Expected Results:** | 'Start time must be before end time' message appears |
| **Actual Results:** | 'Start time must be before end time' message appeared |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/08/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Salma Hanafy |

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| **TC-21** | **Student view available classes** |
| **Purpose:** | Student should be able to view available classes and the instructors for these classes and its time slot |
| **Prerequisite:** | Logged in as a student |
| **Priority:** | **High Priority** |
| **Steps:** | 1-Press Center Schedule tab |
| **Expected Results:** | See all available courses |
| **Actual Results:** | All courses appear |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/08/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Mohammed Hamdy |

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| **TC-22** | **Student add classes** |
| **Purpose:** | Student should be able to add available classes to their schedule |
| **Prerequisite:** | Logged in as a student |
| **Priority:** | **High Priority** |
| **Steps:** | 1-Press Center Schedule tab  2-Press enroll class to one of the classes |
| **Expected Results:** | ‘Student Enrolled Successfully’message appears |
| **Actual Results:** | ‘Student Enrolled Successfully’message appeared |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/08/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Mohammed Hamdy |

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| **TC-23** | **Student view their schedule** |
| **Purpose:** | Students should be able to view their own schedule |
| **Prerequisite:** | Logged in as a student |
| **Priority:** | **Low Priority** |
| **Steps:** | 1-Press my schedule tab |
| **Expected Results:** | All classes the student takes appear in their slots |
| **Actual Results:** | All classes the student takes appeared in their slots |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/08/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Mohammed Hamdy |

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| **TC-24** | **Volunteer view their schedule** |
| **Purpose:** | Volunteers should be able to view their own schedule |
| **Prerequisite:** | Logged in as a volunteer |
| **Priority:** | **Low Priority** |
| **Steps:** | 1-Press my schedule tab |
| **Expected Results:** | Time slots of the volunteer’s class appears |
| **Actual Results:** | Time slots of the volunteer’s class appeared |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/08/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Mohammed Hamdy |

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| **TC-25** | **Volunteer view center schedule** |
| **Purpose:** | Volunteers should be able to view center schedule |
| **Prerequisite:** | Logged in as a volunteer |
| **Priority:** | **Low Priority** |
| **Steps:** | 1-Press schedule tab |
| **Expected Results:** | See all available courses |
| **Actual Results:** | All available courses appeared in their correct slots |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/08/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Mohammed Hamdy |

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| **TC-26** | **Admin can view center schedule** |
| **Purpose:** | Admin should be able to view center schedule |
| **Prerequisite:** | Logged in as an admin |
| **Priority:** | **Low Priority** |
| **Steps:** | 1-Press schedule tab |
| **Expected Results:** | See all available courses in their correct slots |
| **Actual Results:** | All available courses appeared in their correct slots |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/08/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Mohammed Hamdy |

## Non-functional Testing

### Performance Testing

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| **TC-27** | **Volunteer login time** |
| **Purpose:** | Login time should not exceed 5 seconds |
| **Prerequisite:** | Volunteer account |
| **Priority:** | **Low Priority** |
| **Steps:** | 1-Enter email and password  2-Check the response time of the requests done by logging in |
| **Expected Results:** | Response time< =5 |
| **Actual Results:** | Response time about 1.35s |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/09/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Amira Ahmed |

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| **TC-28** | **Admin login time** |
| **Purpose:** | Login time should not exceed 5 seconds |
| **Prerequisite:** | Admin account |
| **Priority:** | **Low Priority** |
| **Steps:** | 1-Enter email and password  2-Check the response time of the requests done by logging in |
| **Expected Results:** | Response time< =5 |
| **Actual Results:** | Response time about 1.90s |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/09/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Amira Ahmed |

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| **TC-29** | **Student login time** |
| **Purpose:** | Login time should not exceed 5 seconds |
| **Prerequisite:** | Student account |
| **Priority:** | **Low Priority** |
| **Steps:** | 1-Enter email and password  2-Check the response time of the requests done by logging in |
| **Expected Results:** | Response time< =5 |
| **Actual Results:** | Response time about 0.90s |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/09/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Amira Ahmed |

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| **TC-30** | **Homepage load time** |
| **Purpose:** | Page load time should not exceed 5 seconds |
| **Prerequisite:** | none |
| **Priority:** | **Low Priority** |
| **Steps:** | 1-Check the response time of the homepage load request |
| **Expected Results:** | Response time< =5 |
| **Actual Results:** | Response time about 0.45s |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/09/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Amira Ahmed |

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| **TC-31** | **Student enroll load time** |
| **Purpose:** | Total load time of enrolling should not exceed 5 seconds |
| **Prerequisite:** | Volunteer account |
| **Priority:** | **Low Priority** |
| **Steps:** | 1-Enter email and password  2-Check the response time of the requests done by logging in |
| **Expected Results:** | Response time< =5 |
| **Actual Results:** | Response time about 1.35s |
| **State:** | Pass |
| **Issue #:** | Not applicable |
| **Execution Date:** | 04/09/2018 |
| **Build Version:** | 1.1 |
| **Questions and notes:** |  |
| **Tester Name:** | Amira Ahmed |

### Quality Testing

Not applicable

### Interface Testing

Not applicable

### Other Testing

Not applicable

# References

1.Software Requirements Specification (SRS) V1.0 [Sprouts\_SE042018\_v1.0]

# Glossary

SRS:Software Requirements Specification

Volunteers:People volunteering to be instructors

# Appendices

Not applicable