Test Plan and Cases (TPC)

We Are Trojans (WAT) Network

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Version Date: 9/04/15

Version History

| Date | Autho r | Versio n | Changes made | Rationale |
|----------|------------|-------------|---|--|
| 11/30/14 | SP | 0.5 | Complete section 1, 2, and 3 | Initial draft for WAT Network |
| 12/07/14 | PP | 1.0 | Complete all section | Feedback from ARB DCP. |
| 06/02/15 | PP | 1.1 | Fixed typo in table of content. | Make correction. |
| | | | Updated Table 4.3 | Changed testing plan |
| | | | Add change profile image test | according to development plan |
| 15/02/15 | PP | 2.0 | Add more people to test plan | Updated test plan according to RDCR |
| 10/04/15 | PP | 3.0 | Edit some grammatical errors | Updated test case according |
| | | | Remove TC-10 Pin Thread | to the functionalities that have |
| | | | Add TC-19 and TC 20 | changed |
| | | | • Add TC-12-04 | |

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1. Introduction

This Test Plan and Cases (TPC) document describes the test cases and acceptance criteria of the WAT Network system. The purpose of doing this is to identify draft acceptance test for specific win-win requirements documented in Winbook. The most critical capability requirements are tested in this document. Test cases are drafted from various use-cases developed for the SSAD document. Testing is focused at software level to test the key features of our system.

2. Test Strategy and Preparation

Based on the key requirements for our system in Winbook and taking help from the use-case diagram for specific features we built a series of acceptance test cases for functionalities. We defined the project's test strategy as "Value-based test prioritization" and "Requirements-test traceability".

2.1 Hardware preparation

Hardware needed for testing is:

- Computers (either laptop or desktop) capable of running Internet Explorer, Chrome, and Firefox. The computers must have internet access. These computers will be used to test the website front end.
- A computer that capable of running Apache and MySQL server. This
 computer will be used to host the website server (can be the same computer
 as the previous computer).
- Android phone that has internet access. This device will be used to run the android version of the website.
- IOS phone that has internet access. This device will be used to run the IOS version of the website.

2.2 Software preparation

Software needed for testing is:

- Internet Explorer version 11 or higher. This is to test Internet Explorer browser compatibility with the website.
- Chrome version 39 or higher. Similar to Internet Explorer except it is for Chrome.
- Firefox version 34 or higher. Similar to Internet Explorer except it is for Firefox.
- Firebug. To inspect HTML and modify style and layout of our website. It is also use for debug javascript code.
- Apache, MySQL, and PHP server on a computer. This software is for running testing server.

For mobile devices

 Native web browser of the devices. For open the website to check functionality and rendering.

2.3 Other pre-test preparations

- Generating testing accounts (user and maintainer accounts) for the tester
 to test for user functionality and maintainer functionality. The account will
 have some usable-points to be able to redeem for some items and gift
 cards.
- Generating some threads and posts on the forum to test search and sort functionalities.
- Generating dummy users with different WAT points to test leaderboard functionality.

2.4 Requirements Traceability

Table 1: Requirements Traceability Matrix

| Requirement ID | Verification Type | Test Case ID (if applicable) |
|---------------------------|----------------------|-----------------------------------|
| CR-1: Q&A Forum | Testing | TC-01 Create thread |
| | Inspection | TC-02 Edit thread |
| | | TC-03 Delete thread |
| | | TC-19 Thread's Category selection |
| | | TC-04 Create post |
| | | TC-05 Edit post |
| | | TC-06 Delete post |
| | | TC-07 Search forum |
| | | TC-08 Like thread or post |
| | | TC-09 Dislike thread or post |
| | | TC-11 Report thread or post |
| CR-2: WAT Point System | Testing | TC-08 Like thread or post |
| | Inspection | TC-09 Dislike thread or post |
| CR-3: Notification System | Testing | TC-04 Create post |
| | | TC-08 Like thread or post |

| | | TC-09 Dislike thread or post |
|---|-----------------------|---|
| CR-4: Profile | Testing Inspection | TC-12 Edit user profile |
| CR-5: Leaderboard | Testing Inspection | TC-20 Link to a user on leaderboard |
| CR-6: Redemption | Testing Inspection | TC-13 Redeem an item or a gift card TC-14 Edit an item or a gift card TC-15 Add an item or a gift card TC-16 Delete an item or a gift card |
| CR-7: Event System | Testing Inspection | TC-17 Create an event TC-18 Edit an event |
| LOS-2: The system shall render correctly on mobile platform | Inspection | |

3. Test Identification

3.1 TC-01 Create thread

3.1.1 Test Level

Software item level

3.1.2 Test Class

Erroneous test

3.1.3 Test Completion Criteria

The test for create thread will be completed when

- The system create complete and correct thread.
- The thread display correctly on the monitor.
- The system show appropriate error message according to the mistake made.

3.1.4 Test Cases

Table 2: TC-01-01 Check creating a thread with correct information.

| Test Case Number | TC-01-01 Check creating a thread with correct information. |
|-----------------------------------|--|
| Test Item | Create thread functionality is tested using appropriate information. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display forum page. |
| Post-conditions | The created thread page display correctly. |
| Input Specifications | Click create thread Put appropriate information in every required fields. Click submit |
| Expected Output Specifications | The created thread page is shown. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. • The thread is created correctly • Created thread data is stored in database correctly Fail criteria: • Other than pass criteria. |
| Assumptions and | There are no violate information when the thread is |

| Constraints | created Every required field is filled. The user has permission to create a thread. | |
|--------------|--|--|
| Dependencies | N/A | |
| Traceability | WC_3240: As a user, I can start a thread by posting a question so that other users might answer that question with credible information. | |

Table 3: TC-01-02 Check creating a thread with some missing required fields.

| Test Case Number | TC-01-02 Creating a thread with some missing required fields |
|-----------------------------------|---|
| Test Item | Create thread functionality is tested without some important information. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display forum page. |
| Post-conditions | The system identify the missing fields in the creating-thread form |
| Input Specifications | Click create thread Put information in the form with some blank required field Click submit |
| Expected Output Specifications | The system show red text to identify the missing required fields. No change for the fields that have already been filled. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. • The error message is shown correctly • No change for the other fields. Fail criteria: • Other than pass criteria. |
| Assumptions and Constraints | The user has permission to create a thread. |
| Dependencies | N/A |
| Traceability | WC_3240: As a user, I can start a thread by posting a question so that other users might answer that question with credible information. |

Table 4: TC-01-03 Check creating a thread with restricted word.

| Test Case Number | TC-01-03 Create thread with restricted word. |
|------------------|--|
|------------------|--|

| Test Item | Create thread functionality is tested with restricted information. |
|-----------------------------------|--|
| Test Priority | M (Must Have) |
| Pre-conditions | The system display forum page. |
| Post-conditions | The created thread page display correctly without restricted information. |
| Input Specifications | Click create thread Put information with restricted word in the form. Click submit |
| Expected Output Specifications | The created thread page is shown without restricted information. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions The thread is created correctly without restricted information. Created thread data without restricted information is stored in database correctly. Fail criteria: Other than pass criteria. |
| Assumptions and Constraints | Every required field is filled. The user has permission to create a thread. |
| Dependencies | N/A |
| Traceability | WC_3240: As a user, I can start a thread by posting a question so that other users might answer that question with credible information. |

3.2 TC-02 Edit thread

3.2.1 Test Level

Software item level

3.2.2 Test Class

Erroneous test

3.2.3 Test Completion Criteria

The test for edit thread will be completed when

- The thread is edit correctly.
- The thread display correctly on the monitor.
- The system show appropriate error message according to the mistake made.

3.2.4 Test Cases

Table 5: TC-02-01 Check editing a thread with correct information

| Test Case Number | TC-02-01 Check editing a thread with correct information. |
|-----------------------------------|---|
| Test Item | Edit thread functionality is tested using appropriate information. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display forum page where the thread he want to edit is shown. |
| Post-conditions | The edited thread display correctly. |
| Input Specifications | Click edit thread Change information in some fields Click submit |
| Expected Output Specifications | The edited thread page is shown with edited mark and timestamp. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. • The thread is edited correctly. • Edited thread data is updated in database correctly. Fail criteria: • Other than pass criteria. |
| | |
| Assumptions and Constraints | There are no violate information when the thread is edited Every required field is filled. The user has permission to edit the thread. |
| Dependencies | N/A |
| Traceability | WC_3503: As a user, I can edit the thread/post I started. |
| | • |

Table 6: TC-02-02 Check editing thread with missing required field.

| Test Case Number | TC-02-02 Check edit thread with missing required field. |
|------------------|---|
| Test Item | Edit thread functionality is tested without some important information. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system displays forum page where the thread he want to edit |

| | is shown. |
|-----------------------------------|--|
| Post-conditions | The system identifies the missing field in the form. |
| Input Specifications | Click edit thread Change information in some fields and leave some required fields blank. Click submit |
| Expected Output Specifications | The system shows red text to identify the missing required fields. No change for the other fields. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. • The error message is shown correctly. • No change for the other fields. Fail criteria: • Other than pass criteria. |
| Assumptions and Constraints | The user has permission to edit the thread. |
| Dependencies | N/A |
| Traceability | WC_3503: As a user, I can edit the thread/post I started. |

Table 7: TC-02-03 Check editing a thread with restricted word.

| Test Case Number | TC-02-03 Check editing a thread with restricted word. |
|-----------------------------------|--|
| Test Item | Edit thread functionality is tested with restricted information. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display forum page where the thread he want to edit is shown. |
| Post-conditions | The edited thread page display correctly without restricted information. |
| Input Specifications | Click edit thread Update information where some update information is restricted. Click submit |
| Expected Output Specifications | The edited thread page is shown with edited mark and timestamp but without restricted information. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. |

| | The thread is edited correctly without restricted information. Edited thread data without restricted information is stored in database correctly. Fail criteria: Other than pass criteria. |
|-----------------------------|---|
| Assumptions and Constraints | Every required field is filled. The user has permission to edit the thread. |
| Dependencies | N/A |
| Traceability | WC_3503: As a user, I can edit the thread/post I started. |

3.3 TC-03 Delete thread

3.3.1 Test Level

Software item level

3.3.2 Test Class

Erroneous test

3.3.3 Test Completion Criteria

The test for delete thread will be completed when

- The specific thread is delete from the system if user have permission to delete it.
- The system show error message to identify that the user can not delete the thread.

3.3.4 Test Cases

Table 8: TC-03-01 Check deleting a thread by a user with permission.

| Test Case Number | TC-03-01 Check deleting a thread by a user with permission. |
|------------------|--|
| Test Item | Delete thread functionality is tested by user with permission. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display forum page where the thread he want to delete is shown. |
| Post-conditions | The system display forum page without the deleted thread. |

| Input Specifications | Click delete thread Confirm to delete the thread |
|-----------------------------------|---|
| Expected Output Specifications | The forum page is shown without the deleted thread. |
| Pass/Fail Criteria | Pass criteria: This test will passed when meet all the following conditions The thread is deleted from the forum correctly. Deleted thread status is changed to deleted. Fail criteria: Other than pass criteria. |
| Assumptions and Constraints | The user has permission to delete the thread. |
| Dependencies | N/A |
| Traceability | Win Condition (WC_3506): As a user, I can delete threads and posts. |

Table 9: TC-03-02 Check deleting a thread by a user without permission.

| Test Case Number | TC-03-02 Check deleting a thread by a user without permission. |
|--------------------------------|--|
| Test Item | Delete thread functionality when handle with a user who has no permission. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display forum page where the thread he want to delete is shown. |
| Post-conditions | The system display an error message identified that user have no permission to delete the thread. |
| Input Specifications | Click delete thread |
| Expected Output Specifications | An error message "Can not delete the thread" is shown. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following condition. • An error message is shown correctly. • User can not delete the thread. Failed criteria: • Other than pass criteria. |
| Assumptions and Constraints | The user has no permission to delete the thread. |

| Dependencies | N/A |
|--------------|---|
| Traceability | Win Condition (WC_3506): As a user, I can delete threads and posts. |

3.4 TC-04 Create post 3.4.1 Test Level

Software item level

3.4.2 Test Class

Erroneous test

3.4.3 Test Completion Criteria

The test for create post will be completed when

- The post is created correctly and there is a notification to the owner of the thread.
- The post display correctly on the monitor.
- The system show appropriate error message according to the mistake made.

3.4.4 Test Cases

Table 10: TC-04-01 Check creating a post with correct information

| Test Case Number | TC-04-01 Check creating a post with correct information. |
|-----------------------------------|--|
| Test Item | Create post functionality is tested using appropriate information. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system displays the thread page where user want to create a post. |
| Post-conditions | The created post display correctly. |
| Input Specifications | Click create post Put appropriate information in every required field. Click submit |
| Expected Output Specifications | The thread page is shown with the created post. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. The post is created correctly. Created post data is stored in database. |

| | A notification to owner of the thread is created correctly. Fail criteria: Other than pass criteria. |
|-----------------------------|---|
| Assumptions and Constraints | There are no violate information when the post is created Every required field is filled. The user has permission to create a post on the thread. |
| Dependencies | N/A |
| Traceability | WC_3241: As a user, I can answer a question posted by other users. |

Table 11: TC-04-02 Check creating a post with some missing required fields

| Test Case Number | TC-04-02 Check creating a post with some missing required fields. |
|-----------------------------------|--|
| Test Item | Create post functionality is tested without some important information. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system displays the thread page where user want to create a post. |
| Post-conditions | The system identify the missing fields in the creating-post form |
| Input Specifications | Click create post Put information in the form with some blank required fields. Click submit |
| Expected Output Specifications | The system show red text to identify the missing required fields. No change for the fields that have already been filled. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. • The error message is shown correctly. • No change for the other fields. Fail criteria: • Other than pass criteria. |
| Assumptions and Constraints | The user has permission to create a post on the thread. Hardware and network is working correctly |

| Dependencies | N/A |
|--------------|--|
| Traceability | WC_3241: As a user, I can answer a question posted by other users. |

Table 12: TC-04-03 Check creating a post with restricted word.

| Test Case Number | TC-04-03 Check creating a post with restricted word. |
|-----------------------------------|---|
| Test Item | Create post functionality is tested with restricted information. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system displays the thread page where user want to create a post. |
| Post-conditions | The created post display on the monitor without restricted information. |
| Input Specifications | Click create post Put information with restricted word in the form Click submit |
| Expected Output Specifications | The created post is shown on the thread page without restricted information. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. The post is created correctly without restricted information Created post data without restricted information is stored in database correctly. A notification to owner of the thread is created correctly. Fail criteria: Other than pass criteria. |
| Assumptions and Constraints | The user has permission to create a post on the thread. Every required filed is filled. |
| Dependencies | N/A |
| Traceability | WC_3241: As a user, I can answer a question posted by other users. |

3.5 TC-05 Edit post 3.5.1 Test Level

Software item level

3.5.2 Test Class

Erroneous test

3.5.3 Test Completion Criteria

The test for create thread will be completed when

- The post is edited correctly
- The post display correctly on the monitor.
- The system show appropriate error message according to the mistake made.

3.5.4 Test Cases

Table 13: TC-05-01 Check editing a post with correct information.

| Test Case Number | TC-05-01 Check editing a post with correct information |
|-----------------------------------|--|
| Test Item | Edit post functionality is tested using appropriate information. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system displays the thread page and shows the post which user want to edit. |
| Post-conditions | The edited post display correctly. |
| Input Specifications | Click edit post Change information in some field. Click submit |
| Expected Output Specifications | The edited post is shown on the thread page with edited mark and timestamp. Database update post information correctly. The post is mark as edited with timestamp. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. The post is edited correctly. The edited mark with timestamp is shown on the post. Edited post data is updated in database. Fail criteria: |

| | Other than pass criteria. |
|-----------------------------|--|
| Assumptions and Constraints | There are no violate information when the post is edited Every required fields is filled. The user have permission to edit the post. |
| Dependencies | N/A |
| Traceability | WC_3503: As a user, I can edit the thread/post I started. |

Table 14: TC-05-02 Check editing a post with some missing required fields.

| Test Case Number | TC-05-02 Check editing a post with some missing required fields. |
|-----------------------------------|--|
| Test Item | Edit post functionality is tested without some important information. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display the thread page and show the post which user want to edit. |
| Post-conditions | The system identifies the missing field in the form. |
| Input Specifications | Click edit post Change information in some fields and leave some required fields blank. Click submit |
| Expected Output Specifications | The system show red text to identify the missing required fields. No change for the other fields. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. • The error message is shown correctly. • No change for the other fields. Fail criteria: • Other than pass criteria. |
| Assumptions and Constraints | The user has permission to edit the post. |
| Dependencies | N/A |
| Traceability | WC_3503: As a user, I can edit the thread/post I started. |

Table 15: TC-05-03 Check editing a post with restricted word.

| Test Case Number | TC-05-03 Check editing a post with restricted word. |
|-----------------------------------|---|
| Test Item | Edit post functionality is tested with restricted information. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display the thread page and show the post which user want to edit. |
| Post-conditions | The edited post display correctly without restricted information. |
| Input Specifications | Click edit post Update information where some update information is restricted. Click submit |
| Expected Output Specifications | The edited post is shown correctly on the thread page with edited mark and timestamp but without restricted information. update post information without restricted word is store in the database The post is update without restricted information. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. The post is edited correctly without restricted information. The edited mark with timestamp is shown on the post. Edited post data without restricted information is stored in database correctly. Fail criteria: Other than pass criteria. |
| Assumptions and Constraints | Every required filed is filled. The user has permission to edit the post. |
| Dependencies | N/A |
| Traceability | WC_3503: As a user, I can edit the thread/post I started. |

3.6 TC-06 Delete post 3.6.1 Test Level

Software item level

3.6.2 Test Class

Erroneous test

3.6.3 Test Completion Criteria

The test for create thread will be completed when

- The specific post is deleted from the system if user have permission to delete it.
- The system show error message to identify that the user can not delete the post.

3.6.4 Test Cases

Table 16: TC-06-01 Check deleting a post by a user with permission.

| Test Case Number | TC-06-01 Check deleting a post by a user with permission. |
|-----------------------------------|---|
| Test Item | Delete post functionality is tested by user with permission. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display the thread page and show the post which user want to delete. |
| Post-conditions | The system displays the thread page without the deleted post. Post owner pending points is updated. |
| Input Specifications | Click delete post Confirm to delete the post. |
| Expected Output Specifications | The thread page is shown without the deleted post. The post status is update to deleted and stored in database |
| Pass/Fail Criteria | Pass criteria: This test will passed when meet all the following condition. The post is deleted from the thread correctly The post status is update to deleted and stored in database correctly. Fail criteria: Other than pass criteria. |
| Assumptions and Constraints | The user has permission to delete the post. |
| Dependencies | N/A |
| Traceability | WC_3240: As a user, I can start a thread by posting a question |
| | |

| so that other users might answer that question with credible information. |
|---|
| |

Table 17: TC-06-02 Check deleting a post by a user without permission.

| Test Case Number | TC-06-02 Check deleting a post by a user without permission. |
|--------------------------------|--|
| Test Item | Delete post functionality when handle with a user who has no permission |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display the thread page and show the post which user want to delete. |
| Post-conditions | The system displays an error message identified that user have no permission to delete the post. |
| Input Specifications | Click delete thread |
| Expected Output Specifications | An error message "Can not delete the post" is shown. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following condition. • An error message is shown correctly • User cannot delete the post. Fail criteria: • Other than pass criteria. |
| Assumptions and Constraints | The user has no permission to delete the post. |
| Dependencies | N/A |
| Traceability | WC_3240: As a student, I can start a thread by posting a question so that other users might answer that question with credible information. |

3.7 TC-07 Search forum

3.7.1 Test Level

Software item level

3.7.2 Test Class

Erroneous test

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3.7.3 Test Completion Criteria

The test for create thread will be completed when

- Search result is shown correctly.
- The system show appropriated error message according to the mistake made.

3.7.4 Test Cases

Table 18: TC-07-01 Check searching with proper query texts.

| Test Case Number | TC-07-01 Check searching with proper query texts. |
|-----------------------------------|--|
| Test Item | Search functionality for the forum is tested using appropriate data. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display forum page with search. |
| Post-conditions | The system display list of threads that relevant to the search input. |
| Input Specifications | Put keywords that want to search into search box. Click search. |
| Expected Output Specifications | A page with list of threads that relevant to the search input is shown. |
| | If there is no relevant thread to the search input |
| | A page with text "XXX is not matched" is shown which XXX is the search input. |
| Pass/Fail Criteria | Pass criteria: • Expected output is shown correctly and completely. Fail criteria: |
| | Other than pass criteria. |
| Assumptions and Constraints | There is no violated data in the search input. |
| Dependencies | N/A |
| Traceability | WC_3246: As a user, I can search the forum so that I can see topics more relevant to my needs. |

Table 19: TC-07-02 Check searching with restricted query texts.

| | Test Case Number | TC-07-02 Check searching with restricted query texts. | |
|--|------------------|---|--|
|--|------------------|---|--|

| Test Item | Search functionality for the forum is tested using restricted texts. |
|-----------------------------------|---|
| Test Priority | M (Must Have) |
| Pre-conditions | The system display forum page with search. |
| Post-conditions | The system display list of threads that relevant to the search input which is not include restricted texts. |
| Input Specifications | Put keywords which restricted texts into search box. Click search |
| Expected Output Specifications | A page with list of threads that relevant to the search input which is not included restricted texts is shown. If there is no relevant thread A page with text "XXX is not matched" is shown which XXX is the search input. |
| Pass/Fail Criteria | Pass criteria: • Expected out put is shown correctly and completely. Fail criteria: • Other than pass criteria. |
| Assumptions and Constraints | N/A |
| Dependencies | N/A |
| Traceability | WC_3246: As a user, I can search the forum so that I can see topics more relevant to my needs. |

3.8 TC-08 Like thread or post 3.8.1 Test Level

Software item level

3.8.2 Test Class

Erroneous test

3.8.3 Test Completion Criteria

The test for create thread will be completed when

- The system response to like an unlike thread or post correctly.
- WAT point of thread or post owner is update correctly.

3.8.4 Test Cases

Table 20: TC-08-01 Check clicking like a thread or a post correctness.

| Test Case Number | TC-08-01 Check clicking like a thread or a post correctness. |
|-----------------------------------|---|
| Test Item | Like functionality is tested in this test case |
| Test Priority | M (Must Have) |
| Pre-conditions | The user is on the forum page or thread page where thread or post he want to like is. |
| Post-conditions | Like and dislike buttons is changed to unlike button. |
| Input Specifications | Click like |
| Expected Output Specifications | Like and dislike button is changed to unlike button. WAT point of the owner is updated. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. Button is changed correctly. WAT point of the owner is update correctly. Status and point data is update in database correctly. A notification to the owner is created correctly. Fail criteria: Other than pass criteria. |
| Assumptions and Constraints | The user did not like or dislike the thread or post before. |
| Dependencies | N/A |
| Traceability | WC_3242: As a user, I can like/dislike an answer so that other users can gauge the credibility of the answer. |

Table 21: TC-08-02 Check clicking unlike a thread or post correctness.

| Test Case Number | TC-08-02 Check clicking unlike a thread or post correctness. |
|----------------------|---|
| Test Item | Unlike functionality is tested in this test case |
| Test Priority | M (Must Have) |
| Pre-conditions | The user is on the forum page or thread page where a thread or a post he want to click unlike is. |
| Post-conditions | Unlike button is changed to like and dislike button. |
| Input Specifications | Click unlike |

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| Expected Output Specifications | Unlike button is changed to like and dislike button WAT point of the owner is updated. |
|-----------------------------------|---|
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. Button is changed correctly. WAT point of the owner is update correctly. Status and point data is update in database correctly. Fail criteria: Other than pass criteria. |
| Assumptions and Constraints | The user like the thread or post before. |
| Dependencies | N/A |
| Traceability | WC_3242: As a user, I can like/dislike an answer so that other users can gauge the credibility of the answer. |

3.9 TC-09 Dislike thread or post

3.9.1 Test Level

Software item level

3.9.2 Test Class

Erroneous test

3.9.3 Test Completion Criteria

The test for create thread will be completed when

- The system response to dislike and undislike correctly.
- WAT point of the thread or post owner is update correctly.

3.9.4 Test Cases

Table 22: TC-09-01 Check clicking dislike thread or post correctness.

| Test Case Number | TC-09-01 Check clicking dislike a thread or post correctness. |
|------------------|---|
| Test Item | Dislike functionality is tested in this test case. |
| Test Priority | M (Must Have) |

| Pre-conditions | The user is on the forum page or thread page where thread or post he want to dislike is. |
|-----------------------------------|--|
| Post-conditions | Like and dislike buttons is changed to undislike button. |
| Input Specifications | Click dislike |
| Expected Output Specifications | Like and dislike button is changed to undislike button. WAT point of the owner is updated. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. Button is changed correctly. WAT point of the owner is updated correctly. Status and point data is update in database correctly. A notification to the owner is created correctly. Fail criteria: Other than pass criteria. |
| Assumptions and Constraints | The user did not like or dislike the thread or post before. |
| Dependencies | N/A |
| Traceability | WC_3242: As a user, I can like/dislike an answer so that other users can gauge the credibility of the answer. |

Table 23: TC-09-02 Check clicking undislike thread or post correctness.

| Test Case Number | TC-09-02 Check clicking undislike thread or post correctness. |
|--------------------------------|---|
| Test Item | Undislike functionality is tested in this test case. |
| Test Priority | M (Must Have) |
| Pre-conditions | The user is on the forum page or thread page where thread or post he want to click undislike is. |
| Post-conditions | Undislike button is changed to like and dislike buttons. |
| Input Specifications | Click undislike. |
| Expected Output Specifications | Undislike button is changed to like and dislike buttons. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. Button is changed correctly. WAT point of the owner is update correctly. Status and point data us update in database correctly. Fail criteria: Other than pass criteria. |

| Assumptions and Constraints | The user dislikes the thread or post before. |
|-----------------------------|---|
| Dependencies | N/A |
| Traceability | WC_3242: As a user, I can like/dislike an answer so that other users can gauge the credibility of the answer. |

3.10TC-11 Report thread or post 3.10.1 Test Level

Software item level

3.10.2 Test Class

Erroneous test

3.10.3 Test Completion Criteria

The test for create thread will be completed when

- The specific thread or post is reported correctly.
- The thread or post status is changed.

3.10.4 Test Cases

Table 24: TC-11-01 Check reporting a thread or post correctness.

| Test Case Number | TC-11-01 Check reporting a thread or post correctness. |
|--------------------------------|---|
| Test Item | Report thread or post functionality is test. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system show the forum or thread page where the thread or post user want to report is shown. |
| Post-conditions | Reporting function for the user is disabled. |
| Input Specifications | Click report thread. |
| Expected Output Specifications | The report button of the thread or post is disabled. |
| Pass/Fail Criteria | Pass criteria: This test case will pass when meet all of the following condition. • The thread status is update and store in database correctly. • The report button is disabled correctly for the user. Fail criteria: |

| | Other than pass criteria. |
|-----------------------------|---|
| Assumptions and Constraints | User has permission to report the thread or post. The thread or post is not report by the user before. |
| Dependencies | N/A |
| Traceability | WC_3494: As a user, I can report inappropriate threads so that the forum will be free of inappropriate threads. |

3.11TC-12 Edit user profile 3.11.1 Test Level

Software item level

3.11.2 Test Class

Erroneous test

3.11.3 Test Completion Criteria

The test for create thread will be completed when

- User profile is edited correctly.
- The system show appropriate error message according to mistake made.

3.11.4 Test Cases

Table 25: TC-12-01 Check editing a user profile with appropriate information.

| Test Case Number | TC-12-01 Check editing a user profile with appropriate information. |
|----------------------|---|
| Test Item | User profile with editing functionality. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system displays user profile of the user. |
| Post-conditions | The system displays the user profile page with changed information changed. |
| Input Specifications | Click edit user profile button. Change information on selected field. |

| | 3. Click submit. |
|-----------------------------------|---|
| Expected Output Specifications | The user profile information is changed |
| Pass/Fail Criteria | Pass criteria: This test case will pass when meet all of the following condition. • The user can edit his user profile correctly. • User information is updated and store in database correctly. Fail criteria: • Other than pass criteria. |
| Assumptions and Constraints | The user have permission to edit the user profile. |
| Dependencies | N/A |
| Traceability | WC_3249: As a user, I can update my profile so that my experience is more personalized. |

Table 26: TC-12-02 Check editing a user profile with invalid information.

| Test Case Number | TC-12-02 Check edit user profile with invalid information. |
|-----------------------------------|--|
| Test Item | User profile with editing functionality when invalid information is given. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display user profile of the user. |
| Post-conditions | Appropriate errors show and identified why the data user give is invalid to the system. |
| Input Specifications | Click edit button Change some information Click submit |
| Expected Output Specifications | System declines the editing and an error according to the invalid information user given is show. |
| Pass/Fail Criteria | Pass criteria: This test case will pass when meet all of the following condition. • The error message is shown correctly • System declines the edited. Fail criteria: • Other than pass criteria. |
| Assumptions and Constraints | The user has permission to edit the profile. |

| Dependencies | N/A |
|--------------|---|
| Traceability | WC_3249: As a user, I can update my profile so that my experience is more personalized. |

Table 27: TC-12-03 Check editing user profile image.

| Test Case Number | TC-12-03 Check editing user profile image. |
|-----------------------------------|--|
| Test Item | Change profile image functionality in user profile page. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display user profile of the user. |
| Post-conditions | The profile image is changed or appropriate error is showed. |
| Input Specifications | Click edit profile image button Choose new profile image Click submit |
| Expected Output Specifications | The profile image is changed to the selected picture or appropriate error is showed such as the file is not support or can not accept image larger than XXX MB. |
| Pass/Fail Criteria | Pass criteria: This test case will pass when meet all of the following condition. The expected output is showed. Database is update correctly. Fail criteria: Other than pass criteria. |
| Assumptions and Constraints | The user has permission to edit the profile. |
| Dependencies | N/A |
| Traceability | WC_3249: As a user, I can update my profile so that my experience is more personalized. |

Table 28: TC-12-04 Check editing user profile image with very large picture.

| Test Case Number | TC-12-04 Check editing user profile image with very large picture. |
|----------------------|---|
| Test Item | Change profile image functionality in user profile page. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display user profile of the user. |
| Post-conditions | Appropriate errors show and identified why the data user give is invalid to the system. |
| Input Specifications | Click edit profile image button Choose new profile image Click submit |

| Expected Output Specifications | An appropriate error is showed such as the file is not support or can not accept image larger than XXX MB. |
|--------------------------------|---|
| Pass/Fail Criteria | Pass criteria: This test case will pass when meet all of the following condition. • The expected output is showed. Fail criteria: • Other than pass criteria. |
| Assumptions and Constraints | The user has permission to edit the profile. |
| Dependencies | N/A |
| Traceability | WC_3249: As a user, I can update my profile so that my experience is more personalized. |

3.12TC-13 Redeem an item or a gift card 3.12.1 Test Level

Software item level

3.12.2 Test Class

Erroneous test

3.12.3 Test Completion Criteria

The test for create thread will be completed when

- The system sends a coupon email to the user correctly and completely.
- The system shows an appropriate error message according to the mistake made.

3.12.4 Test Cases

Table 29: TC-13-01 Check redeeming an item or a gift card with enough usable points.

| Test Case Number | TC-13-01 Check redeeming an item or a gift card with enough usable points. |
|------------------|--|
| Test Item | Redemption functionality by user who have enough usable points. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system displays the store page. |

| Post-conditions | System response success. |
|-----------------------------------|--|
| Input Specifications | Click redeem an item or gift card. Click confirm. |
| Expected Output Specifications | System response success. A coupon email is sent to the user. Usable point of the user is reduce. |
| Pass/Fail Criteria | Pass criteria: This test case will pass when meet all of the following condition. The system responses to the user correctly. An coupon is generated correctly and completely. User has received the coupon emails. Usable point of the user is reduced and is updated to the database correctly. Fail criteria: Other than pass criteria. |
| Assumptions and Constraints | User has enough usable point to redeem the item or gift card. |
| Dependencies | N/A |
| Traceability | WC_3435: As a user I can use my WAT points to redeem items from a virtual store. WC_3435: As a user, I can redeem usable WAT points so that I can receive a gift card. |

Table 30: TC-13-02 Check redeeming an item or a gift card without enough usable points.

| Test Case Number | TC-13-02 Check redeeming an item or a gift card without enough usable points. |
|-----------------------------------|---|
| Test Item | Redemption functionality is tested when user have no enough usable point |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display the store page |
| Post-conditions | The system show an error message that the user have not enough usable point. |
| Input Specifications | Click redeem and item or gift card. |
| Expected Output Specifications | An error message say "Sorry you need more XXX usable points" |
| Pass/Fail Criteria | Pass criteria: This test case will pass when meet all of the following condition. |

| | The error is shown correctly. The system declines the redemption correctly. Fail criteria: Other than pass criteria. |
|-----------------------------|---|
| Assumptions and Constraints | The user has no enough usable point to redeem the item. |
| Dependencies | N/A |
| Traceability | WC_3435: As a user I can use my WAT points to redeem items from a virtual store. WC_3435: As a user, I can redeem usable WAT points so that I can receive a gift card. |

3.13TC-14 Edit an item or a gift card 3.13.1 Test Level

Software item level

3.13.2 Test Class

Erroneous test

3.13.3 Test Completion Criteria

The test for create thread will be completed when

- The item or gift card is edited correctly.
- The system response appropriately on the mistake made.

3.13.4 Test Cases

Table 31: TC-14-01 Check editing an item or a gift card with appropriate information.

| Test Case Number | TC-14-01 Check editing an item or a gift card with appropriate information. |
|------------------|--|
| Test Item | Edit item functionality is tested using appropriate information. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display the store page where the item or gift card he want to edit shown. |

| Post-conditions | The system display the store page with change information of the gift card |
|-----------------------------------|--|
| Input Specifications | Click edit items or gift card Change the information of the item or gift card Click submit |
| Expected Output Specifications | The item or gift card information is changed |
| Pass/Fail Criteria | Pass criteria: This test case will pass when meet all of the following condition. • The item or gift card information is changed correctly • The item or gift card data is updated in database Fail criteria: • Other than pass criteria. |
| Assumptions and Constraints | The user has permission to edit the item or gift card. There are no violated information in the form. |
| Dependencies | N/A |
| Traceability | WC_3436: As a moderator, I can add a gift card to the system so that users can redeem gift cards using their points. |
| | WC_3437: As a moderator, I can add a product to the gift store so that users can redeem gifts using their points. |

Table 32: TC-14-02 Check editing an item or a gift card with missing required field.

| | , |
|-----------------------------------|---|
| Test Case Number | TC-14-02 Check editing an item or a gift card with missing required field. |
| Test Item | Edit items or gift card functionality is tested without some important information. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display the store page where the item or gift card he want to edit shown. |
| Post-conditions | The system identifies the missing fields in the form. |
| Input Specifications | Click edit item or gift card. Put information in the form with some blank required fields. Click submit |
| Expected Output Specifications | The system show red text to identify the missing required fields. |

| | No change for the fields that have already been filled. |
|-----------------------------|---|
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all of the following conditions. The error message is shown correctly No change for the other fields. Fail criteria: Other than pass criteria. |
| Assumptions and Constraints | The user has permission to edit the item or gift card. |
| Dependencies | N/A |
| Traceability | WC_3436: As a moderator, I can add a gift card to the system so that users can redeem gift cards using their points. |
| | WC_3437: As a moderator, I can add a product to the gift store so that users can redeem gifts using their points. |

Table 33: TC-14-03 Check editing an item or a gift card with invalid information.

| Test Case Number | TC-14-03 Check editing an item or a gift card with invalid information. |
|-----------------------------------|---|
| Test Item | Edit item functionality is test with invalid information such as cost of item less than zero. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display the store page where the item or gift card he want to edit shown. |
| Post-conditions | The system response an error message identify why the information is invalid. |
| Input Specifications | Click edit an item change some information which some of them is invalid Click submit |
| Expected Output Specifications | An error message identify why the information is invalid No change for the fields that have already been filled. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all of the following conditions. • The error message is shown correctly • No change for the other fields. Fail criteria: |

| | Other than pass criteria. |
|-----------------------------|---|
| Assumptions and Constraints | The user has permission to edit the item or gift card. |
| Dependencies | N/A |
| Traceability | WC_3436: As a moderator, I can add a gift card to the system so that users can redeem gift cards using their points. WC_3437: As a moderator, I can add a product to the gift store so that users can redeem gifts using their points. |

3.14TC-15 Add an item or a gift card 3.14.1 Test Level

Software item level

3.14.2 Test Class

Erroneous test

3.14.3 Test Completion Criteria

The test for create thread will be completed when

- Maintainer is able to add an item or a gift card on online store.
- The system responds appropriately when maintainer makes mistake while entering an item or a gift card to the online store.

3.14.4 Test Cases

Table 34: TC-15-01 Check adding an item or a gift card with correct information.

| Test Case Number | TC-15-01 Check adding an item or a gift card with correct information. |
|----------------------|--|
| Test Item | Redemption functionality when item or gift card is added. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system displays the store page. |
| Post-conditions | The system shows the store page with added item or gift card. |
| Input Specifications | Click add item or gift card |

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| | Put item or gift card information. Click submit |
|-----------------------------------|---|
| Expected Output Specifications | The added item or gift card is shown in the store. |
| Pass/Fail Criteria | Pass criteria: This test case will pass when meet all of the following conditions. The item or gift card is added correctly. The item or gift card data is stored correctly in database Fail criteria: Other than pass criteria. |
| Assumptions and Constraints | The user has permission to add an item or gift card. |
| Dependencies | N/A |
| Traceability | WC_3436: As a moderator, I can add a gift card to the system so that users can redeem gift cards using their points. WC_3437: As a moderator, I can add a product to the gift store so that users can redeem gifts using their points. |

Table 35: TC-15-02 Check adding an item or a gift card with missing required field.

| Test Case Number | TC-15-02 Check adding an item or a gift card with missing required field |
|-----------------------------------|--|
| Test Item | Redemption functionality is tested when maintainer adds item or gift card but miss required field. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system displays the store page. |
| Post-conditions | The system identifies the missing fields in the form. |
| Input Specifications | Click adds item or gift card. Put information in the form with leave some required fields blank. Click submit. |
| Expected Output Specifications | The system show red text to identify the missing required fields. No change for the fields that have already been filled. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all of the following conditions. • The error message is shown correctly |

| | No change for the other fields. Fail criteria: |
|-----------------------------|--|
| | Other than pass criteria. |
| Assumptions and Constraints | The user has permission to add an item or gift card. Every required field is filled. |
| Dependencies | N/A |
| Traceability | WC_3436: As a moderator, I can add a gift card to the system so that users can redeem gift cards using their points. |
| | WC_3437: As a moderator, I can add a product to the gift store so that users can redeem gifts using their points. |

Table 36: TC-15-03 Check adding an item or a gift card with invalid information.

| Test Case Number | TC-15-03 Check adding an item or a gift card with invalid information. |
|-----------------------------------|--|
| Test Item | Redemption functionality is tested when maintainer add item or gift card but put invalid information such as cost of an item is less than zero. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system displays the store page. |
| Post-conditions | The system response an error message identify why the information is invalid. |
| Input Specifications | Click add an item or gift card Put information with some invalid information Click submit |
| Expected Output Specifications | An error message identify why the information is invalid No change for the fields that have already been filled. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all of the following conditions. • The error message is shown correctly • No change for the other fields. Fail criteria: • Other than pass criteria. |
| Assumptions and Constraints | The user has permission to add an item or gift card. |

| | Every required filled is filled. |
|--------------|--|
| Dependencies | N/A |
| Traceability | WC_3436: As a moderator, I can add a gift card to the system so that users can redeem gift cards using their points. |
| | WC_3437: As a moderator, I can add a product to the gift store so that users can redeem gifts using their points. |

3.15TC-16 Delete an item or a gift card 3.15.1 Test Level

Software item level

3.15.2 Test Class

Erroneous test

3.15.3 Test Completion Criteria

The test for delete an item or a gift card will be completed when

- The deleted item is remove from the system correctly.

3.15.4 Test Cases

Table 37: TC-16-01 Check deleting an item or a gift card correctness

| Test Case Number | TC-16-01 Check deleting an item or a gift card correctness |
|----------------------|--|
| Test Item | Deleting functionality in the redemption functionality is correctly implemented or not |
| Test Priority | M (Must Have) |
| Pre-conditions | The system shows redemption page and shows the items or gift card that should be deleted |
| Post-conditions | The system does not show the deleted items or gift cards after successfully deletion |
| Input Specifications | Click redemption page Choose the items or gift cards you want to delete Click the deletion submit Pop up a window to confirm the deletion again |

| | 5. Click "Yes" |
|-----------------------------------|---|
| Expected Output Specifications | The items or gift cards are deleted with timestamp and saved in the database system. The items or gift card will be removed in the homepage |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all of the following conditions. The items or gift cards is deleted in the database The deleted items or gift cards is removed in the redemption page Fail criteria: Other than pass criteria. |
| Assumptions and Constraints | The redemption page should have items or gift card that should be deleted |
| Dependencies | N/A |
| Traceability | WC_3436: As a moderator, I can add a gift card to the system so that users can redeem gift cards using their points. |
| | WC_3437: As a moderator, I can add a product to the gift store so that users can redeem gifts using their points. |

3.16TC-17 Create an event 3.16.1 Test Level

Software item level

3.16.2 Test Class

Erroneous test

3.16.3 Test Completion Criteria

The test for create an event will be completed when

- The system create an event correctly.
- The system show appropriate error message according to mistake made.

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3.16.4 Test Cases

Table 38: TC-17-01 Check creating an event with correct information.

| Test Case Number | TC-17-01 Check creating an event with correct information. |
|-----------------------------------|--|
| Test Item | Create an event functionality is tested using appropriate information |
| Test Priority | M (Must Have) |
| Pre-conditions | The system displays an event input form so the maintainer can create an event using that form |
| Post-conditions | The event is successfully created and no error message is received. |
| Input Specifications | Click add an event Input information on required fields Click submit |
| Expected Output Specifications | The event is create with timestamp and saved in the database system. The event will be shown in the homepage |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all of the following conditions. • The event is saved in the database • The even is shown in the homepage Fail criteria: • Other than pass criteria. |
| Assumptions and Constraints | Maintainer puts everything correctly |
| Dependencies | N/A |
| Traceability | WC_3258: As a moderator, I can create a special event so that I can entice more users to join and participate. |

Table 39: TC-17-02 Check creating an event with correct information and "notify-all" options selected

| Test Case Number | TC-17-02 Check creating an event with correct information and "notify-all" options selected |
|------------------|---|
| Test Item | Create an event functionality is tested using appropriate information and with "notify-all" option selected |
| Test Priority | M (Must Have) |
| Pre-conditions | The system displays an event input form so the maintainer can |

| | create an event using that form |
|-----------------------------------|---|
| Post-conditions | The event is successfully created and no error message is received. Everyone who is registered in the system will receive that event |
| Input Specifications | Click add an event Input information on required fields Click "notify-all" option selected Click submit |
| Expected Output Specifications | The event is create with timestamp and saved in the database system. The event will be shown in the homepage The notification system fires a notification about the even to everyone on the server. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all of the following conditions. • The event is saved in the database • the notification system fires a notification about the event to everyone. Fail criteria: • Other than pass criteria. |
| Assumptions and Constraints | Maintainer puts everything correctly |
| Dependencies | N/A |
| Traceability | WC_3258: As a moderator, I can create a special event so that I can entice more users to join and participate. |

Table 40: TC-17-03 Check creating an event with missing required field.

| | - |
|------------------|---|
| Test Case Number | TC-17-03 Check creating an event with missing required field. |
| Test Item | Create an event functionality is tested without some important information The system displays an event input form so the maintainer can create an event using that form |
| Test Priority | M (Must Have) |
| Pre-conditions | The system displays an event input form so the maintainer can create an event using that form |
| Post-conditions | The system shows error message and identifies the missing field in the form. |

| Input Specifications | Click create an event Input information in some fields and leave some required fields blank. Click submit |
|-----------------------------------|--|
| Expected Output Specifications | The system shows an error message The system identifies the missing field(s) |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all of the following conditions. The error message is shown correctly The fields that have a missing information is highlighted the event is not saved Fail criteria: Other than pass criteria. |
| Assumptions and Constraints | N/A |
| Dependencies | N/A |
| Traceability | WC_3258: As a moderator, I can create a special event so that I can entice more users to join and participate. |

3.17TC-18 Edit an event 3.17.1 Test Level

Software item level

3.17.2 Test Class

Erroneous test

3.17.3 Test Completion Criteria

The test for create thread will be completed when

- The event is successfully edited.
- The event is displayed correctly on the screen.
- The system displays appropriate error messages for the mistakes.

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3.17.4 Test Cases

Table 41: TC-18-01 Check editing an event with correct information.

| Test Case Number | TC-18-01 Check edit an event with correct information. |
|-----------------------------------|--|
| Test Item | Edit an event by using appropriate information. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display event management page for the maintainer. |
| Post-conditions | The edited event is correctly displayed on the event page. |
| Input Specifications | The maintainer click edit the event. The maintainer update information in the event-editing page. The maintainer click submit. |
| Expected Output Specifications | The event details in the event page is updated. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all of the following conditions. The event is correctly edited. The updated event is updated in the database Fail criteria: Other than pass criteria. |
| Assumptions and Constraints | Correct information is put in the event-editing page. Every required field is filled. The user has permission to edit the event. |
| Dependencies | TC-17: we can only edit an event it is created initially by the maintainer. |
| Traceability | WC_3505: As a maintainer, I can edit details of the event created event on WAT system. |

Table 42: TC-18-02 Check editing an event with correct information and a notification-all option selected.

| Test Case Number | TC-18-02 Check editing an event with correct information and a notification-all option selected. |
|------------------|--|
| Test Item | Edit an event that will send notification to all users by using appropriate information. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display event management page for the maintainer. |

| Post-conditions | The edited event is correctly displayed on the event page and the system notifies all users in of the system. |
|-----------------------------------|--|
| Input Specifications | The maintainer clicks edit the event. The maintainer update information in the event-editing page. The maintainer clicks submit. |
| Expected Output Specifications | The event is notified to all users in the system. The event details in the event page is updated. |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all of the following conditions. The event is correctly edited. A new notification is created and is sent to all users. The updated event is updated in the database Fail criteria: Other than pass criteria. |
| Assumptions and Constraints | Correct information is put in the event-editing page. Every required field is filled. The user has permission to edit the event. |
| Dependencies | TC-17: we can only edit an event it is created initially by the maintainer. |
| Traceability | WC_3505: As a maintainer, I can edit details of the event created event on WAT system. |

Table 43: TC-18-03 Check editing an event with some missing field.

| Test Case Number | TC-18-03 Check editing an event with some missing field. |
|-----------------------------------|---|
| Test Item | Edit an event but the maintainer fails to put all required fields into the event-editing page. |
| Test Priority | M (Must Have) |
| Pre-conditions | The system display event management page for the maintainer. |
| Post-conditions | The system displays an error message to the users indicating missing fields. |
| Input Specifications | The maintainer clicks edit the event. The maintainer update information in the event-editing page but miss some fields. The maintainer clicks submit. |
| Expected Output Specifications | An error message is shown to the maintainer. |

| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. • The correct message is shown to the user indicating precise required fields. Fail criteria: • Other than pass criteria. | | |
|-----------------------------|--|--|--|
| Assumptions and Constraints | The user has a permission to edit the event. The user misses some required fields when he/she click submit. | | |
| Dependencies | TC-17: we can only edit an event it is created initially by the maintainer. | | |
| Traceability | WC_3505: As a maintainer, I can edit details of the event created event on WAT system. | | |

Table 44: TC-18-04 Check editing an event with restricted word.

| Test Case Number | TC-18-04 Check editing an event with restricted word. | | | |
|--------------------------------|---|--|--|--|
| Test Item | Edit an event but the maintainer makes a mistake by putting restricted statements/texts into the event-editing page. | | | |
| Test Priority | M (Must Have) | | | |
| Pre-conditions | The system displays event management page for the maintainer. | | | |
| Post-conditions | The system displays an error message to the users indicating restricted words/statements are used. | | | |
| Input Specifications | The maintainer clicks edit the event. The maintainer updates information in the event-editing page but uses restricted words. The maintainer clicks submit. | | | |
| Expected Output Specifications | An error message is shown to the user. | | | |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. • The correct message is shown to the user indicating input errors. Fail criteria: • Other than pass criteria. | | | |
| Assumptions and Constraints | The user has a permission to edit the event. The user makes a mistake by using restricted words when he/she clicks submit. | | | |

| Dependencies | TC-17-01 and TC-17-02 |
|--------------|--|
| Traceability | WC_3505: As a maintainer, I can edit details of the event created event on WAT system. |

3.18TC-19 Edit user category list. 3.18.1 Test Level

Software item level

3.18.2 Test Class

Erroneous test

3.18.3 Test Completion Criteria

The test for editing user category list will be completed when

- The user category list is successfully edited.
- The category list is displayed correctly on the screen.
- The system displays appropriate error messages for the mistakes.

3.18.4 Test Cases

Table 45: TC-19-01 Check editing user category list on profile page.

| Test Case Number | TC-19-01 Check editing user category list on profile page. | | | |
|--------------------------------|--|--|--|--|
| Test Item | Editing category list functionality on profile page. | | | |
| Test Priority | M (Must Have) | | | |
| Pre-conditions | The system displays profile page. | | | |
| Post-conditions | The category list is display according to the changed user have made. | | | |
| Input Specifications | Click edit profile Select set or reset on category list. | | | |
| Expected Output Specifications | The category list displays only categories that user set. | | | |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. • The category list is shown correctly. • The database updated correctly. Fail criteria: • Other than pass criteria. | | | |

| Assumptions and Constraints | The user has a permission to edit the profile. |
|-----------------------------|--|
| Dependencies | N/A |
| Traceability | WC_3247: As a user I can select multiple favorite categories so that I only see threads with in these categories when I browse the "show thread" page. |

Table 46: TC-19-02 Check editing user category list on list threads page.

| Test Case Number | TC-19-02 Check editing user category list on list threads page. | | | |
|-----------------------------------|---|--|--|--|
| Test Item | Editing category list functionality on list threads page. | | | |
| Test Priority | M (Must Have) | | | |
| Pre-conditions | The system displays llist threads page. | | | |
| Post-conditions | The category list is display according to the changed user have made. | | | |
| Input Specifications | Click edit category list Select category in and out of the list Click done. | | | |
| Expected Output Specifications | The category list display only selected categories including "All Threads" and "Hot Threads" categories. | | | |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. • The category list is shown correctly. • The database updated correctly. Fail criteria: • Other than pass criteria. | | | |
| Assumptions and Constraints | N/A | | | |
| Dependencies | N/A | | | |
| Traceability | WC_3247: As a user I can select multiple favorite categories so that I only see threads with in these categories when I browse the "show thread" page. WC_3509: As a user I can see a list of all non-favorite categories and click one of them to see a feed of threads in that category. WC_3508: As a user I can add and remove favorite categories on the "list threads" page | | | |

3.19TC-20 Link to a user on leaderboard. 3.19.1 Test Level

Software item level

3.19.2 Test Class

Erroneous test

3.19.3 Test Completion Criteria

The test for link to a user on leaderboard be completed when

- The user can link to the other user profile on leaderboard by click on their information.

3.19.4 Test Cases

Table 47: TC-20-01 Check Clicking link to user profile on leaderboard section.

| Test Case Number | TC-20-01 Check clicking link to user profile on leaderboard section. | | | |
|--------------------------------|---|--|--|--|
| Test Item | Leaderboard functionality on list thread page. | | | |
| Test Priority | M (Must Have) | | | |
| Pre-conditions | The system displays list thread page. | | | |
| Post-conditions | The user profile of specific user is shown. | | | |
| Input Specifications | Click on user information on leaderboard | | | |
| Expected Output Specifications | The clicked user profile page is shown. | | | |
| Pass/Fail Criteria | Pass criteria: This test will pass when meet all the following conditions. • The clicked user profile page is shown correctly. Fail criteria: • Other than pass criteria. | | | |
| Assumptions and Constraints | N/A | | | |
| Dependencies | N/A | | | |
| Traceability | WC_3247: As a user I can select multiple favorite categories so that I only see threads with in these categories when I browse the "show thread" page. | | | |

4. Resources and schedule

4.1 Resources

Currently as per the clients requirements we are developing the system offline. Initial testing would involve generating random data set for testing specific features. Once the clients approve the offline system, we will put the web-interface on the server for actual users. The data would be collected and testing will be performed based on the data obtained.

Data Set:

- Initially, team will enter their data set to test the system
- Next gather actual user information to test the system

Software: APIs provided by Laravel framework.

Budget:

We will be using all free testing software in our system, as the budget for our project is \$0.

4.2 Staffing and Training Needs

All team members will perform testing, with Pittawat Pamornchaisirikij being the lead and the development team will perform unit test while implement the system.

Training need: No training need.

4.3 Schedule

Table 48: Testing Schedule

| Date | Test Identifier | Responsible person | Resources | Training needs |
|----------|-----------------|--------------------------------|---|----------------|
| 02/10/15 | TC-12 | Pittawat Pamornchaisirikij, | - Computer with installed software IOS and Android | N/A |
| | | Suleyman Erten | devices. - Test dataset | |
| 02/10/15 | TC-01 – TC-06 | Min Li, Saloni Priya | - Computer with installed software IOS and Android devices Test dataset | N/A |
| 02/24/15 | TC-08 – TC-09 | Min Li, Punyawee | - Computer with installed software IOS and Android devices. | N/A |

| | | Pakdiying | - Test dataset | |
|----------|---------------|---|---|-----|
| 02/24/15 | TC-11 | Pittawat Pamornchaisirikij, Ameer Elkordy | - Computer with installed software IOS and Android devices Test dataset | N/A |
| 03/24/15 | TC-10 | Punyawee Pakdiying, Kamonphop Srisopha | - Computer with installed software IOS and Android devices Test dataset | N/A |
| 03/17/15 | TC-07 | Min Li, Kamonphop Srisopha | - Computer with installed software IOS and Android devices Test dataset | N/A |
| 03/17/15 | TC-17 – TC-18 | Pittawat Pamornchaisirikij, Saloni Priya | - Computer with installed software IOS and Android devices Test dataset | N/A |
| 03/17/15 | TC-14 – TC-16 | Punyawee Pakdiying, Suleyman Erten | - Computer with installed software IOS and Android devices Test dataset | N/A |
| 04/07/15 | TC-13 | Min Li, Saloni Priya | - Computer with installed software IOS and Android devices Test dataset | N/A |
| 04/14/15 | ALL | ALL | - Computer with installed software IOS and Android devices Test dataset | N/A |