

Test Plan and Cases (TPC)

We Are Trojans (WAT) Network

Team No.1

Team members	Roles
Eirik Skogstad	Project Manager, Life Cycle Planner
Min Li	Feasibility Analyst, Operational Concept Engineer
Pittawat Pamornchaisirikij	NDI/NCS Acquirer & Evaluator, Tester
Saloni Priya	Requirements Engineer, UML Modeler
Suleyman Erten	Operational Concept Engineer, Requirement Engineer
Kamonphop Srisopha	Prototyper, UML modeler
Ameer Elkordy	IIV&V, Quality Focal Point
Punyawee Pakdiying	System Architect, Feasibility Analyst

15/02/15

Version History

Date	Author	Version	Changes made	Rationale
11/30/14	SP	0.5	<ul style="list-style-type: none">• Complete section 1, 2, and 3	<ul style="list-style-type: none">• Initial draft for WAT Network
12/07/14	PP	1.0	<ul style="list-style-type: none">• Complete all section	<ul style="list-style-type: none">• Feedback from ARB DCP.
06/02/15	PP	1.1	<ul style="list-style-type: none">• Fixed typo in table of content.• Updated Table 4.3• Add change profile image test	<ul style="list-style-type: none">• Make correction.• Changed testing plan according to development plan
15/02/15	PP	2.0	<ul style="list-style-type: none">• Add more people to test plan	<ul style="list-style-type: none">• Updated test plan according to RDCR

Table of Contents

TEST PLAN AND CASES (TPC)	I
VERSION HISTORY	II
TABLE OF CONTENTS	III
TABLE OF TABLES	V
1. Introduction	7
2. Test Strategy and Preparation	8
2.1 Hardware preparation	8
2.2 Software preparation	8
2.3 Other pre-test preparations	9
2.4 Requirements Traceability	9
3. Test Identification	11
3.1 TC-01 Create thread	11
3.2 TC-02 Edit thread	13
3.3 TC-03 Delete thread	16
3.4 TC-04 Create post	18
3.5 TC-05 Edit post	21
3.6 TC-06 Delete post	24
3.7 TC-07 Search forum	26
3.8 TC-08 Like thread or post	28
3.9 TC-09 Dislike thread or post	29
3.10 TC-10 Pin thread	31
3.11 TC-11 Report thread or post	33
3.12 TC-12 Edit user profile	34

3.13	TC-13 Redeem an item or a gift card	37
3.14	TC-14 Edit an item or a gift card	39
3.15	TC-15 Add an item or a gift card	42
3.16	TC-16 Delete an item or a gift card	45
3.17	TC-17 Create an event	46
3.18	TC-18 Edit an event	49
4.	Resources and schedule	53
4.1	Resources	53
4.2	Staffing and Training Needs	53
4.3	Schedule	53

Table of Tables

<i>Table 1: Requirements Traceability Matrix</i>	<i>9</i>
<i>Table 2: TC-01-01 Check create thread with correct information.</i>	<i>11</i>
<i>Table 3: TC-01-02 Check create thread with some missing required fields.....</i>	<i>12</i>
<i>Table 4: TC-01-03 Check create thread with restricted word.</i>	<i>13</i>
<i>Table 5: TC-02-01 Check edit thread with correct information.....</i>	<i>14</i>
<i>Table 6: TC-02-02 Check edit thread with missing required field.</i>	<i>15</i>
<i>Table 7: TC-02-03 Check edit thread with restricted word.....</i>	<i>15</i>
<i>Table 8: TC-03-01 Check delete thread by a user with permission.....</i>	<i>17</i>
<i>Table 9: TC-03-02 Check delete thread by a user without permission.</i>	<i>17</i>
<i>Table 10: TC-04-01 Check create post with correct information.....</i>	<i>18</i>
<i>Table 11: TC-04-02 Check create post with some missing required fields</i>	<i>19</i>
<i>Table 12: TC-04-03 Check create post with restricted word.....</i>	<i>20</i>
<i>Table 13: TC-05-01 Check edit post with correct information.</i>	<i>21</i>
<i>Table 14: TC-05-02 Check edit post with some missing required fields.....</i>	<i>22</i>
<i>Table 15: TC-05-03 Check edit post with restricted word.</i>	<i>23</i>
<i>Table 16: TC-06-01 Check delete post by a user with permission.</i>	<i>24</i>
<i>Table 17: TC-06-02 Check delete post by a user without permission.....</i>	<i>25</i>
<i>Table 18: TC-07-01 Check search with proper query texts.</i>	<i>26</i>
<i>Table 19: TC-07-02 Check search with restricted query texts.....</i>	<i>27</i>
<i>Table 20: TC-08-01 Check like thread or post correctness.</i>	<i>28</i>
<i>Table 21: TC-08-02 Check unlike thread or post correctness.....</i>	<i>29</i>
<i>Table 22: TC-09-01 Check dislike thread or postcorrectness.</i>	<i>30</i>
<i>Table 23: TC-09-02 Check undilike thread or post correctness.....</i>	<i>30</i>
<i>Table 24: TC-10-01 Check pin thread correctness.</i>	<i>32</i>

<i>Table 25: TC-10-02 Check unpin thread correctness.....</i>	<i>32</i>
<i>Table 26: TC-11-01 Check report thread or post correctness.....</i>	<i>34</i>
<i>Table 27: TC-12-01 Check edit user profile with appropriate information.....</i>	<i>35</i>
<i>Table 28: TC-12-02 Check edit user profile with invalid information.....</i>	<i>35</i>
<i>Table 29: TC-12-03 Check change user profile image.....</i>	<i>36</i>
<i>Table 30: TC-13-01 Check redeem an item or a gift card with enough usable points.....</i>	<i>37</i>
<i>Table 30: TC-13-02 Check redeem an item or a gift card without enough usable points.....</i>	<i>38</i>
<i>Table 31: TC-14-01 Check edit an item or a gift card with appropriate information.....</i>	<i>39</i>
<i>Table 32: TC-14-02 Check edit an item or a gift card with missing required field.....</i>	<i>40</i>
<i>Table 33: TC-14-03 Check edit an item or a gift card with invalid information.....</i>	<i>41</i>
<i>Table 34: TC-15-01 Check add an item or a gift card with correct information.....</i>	<i>42</i>
<i>Table 35: TC-15-02 Check add an item or a gift card with missing required field.....</i>	<i>43</i>
<i>Table 36: TC-15-03 Check add an item or a gift card with invalid information.....</i>	<i>44</i>
<i>Table 37: TC-16-01 Check delete an item or a gift card correctness.....</i>	<i>45</i>
<i>Table 38: TC-17-01 Check create an event with correct information.....</i>	<i>46</i>
<i>Table 39: TC-17-02 Check create an event with correct information and “notify-all” options selected.....</i>	<i>47</i>
<i>Table 40: TC-17-03 Check create an event with missing required field.....</i>	<i>48</i>
<i>Table 41: TC-18-01 Check edit an event with correct information.....</i>	<i>49</i>
<i>Table 42: TC-18-02 Check edit an event with correct information and a notification-all option selected.....</i>	<i>50</i>
<i>Table 43: TC-18-03 Check create thread with some missing field.....</i>	<i>51</i>
<i>Table 44: TC-18-04 Check edit an event with restricted word.....</i>	<i>52</i>
<i>Table 45: Testing Schedule.....</i>	<i>53</i>

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	<i>TC-01 Create thread</i>
	Inspection	<i>TC-02 Edit thread</i>
		<i>TC-03 Delete thread</i>
		<i>TC-04 Create post</i>
		<i>TC-05 Edit post</i>
		<i>TC-06 Delete post</i>
		<i>TC-07 Search forum</i>
		<i>TC-08 Like thread or post</i>
		<i>TC-09 Dislike thread or post</i>
		<i>TC-10 Pin thread</i>
		<i>TC-11 Report thread or post</i>
CR-2: WAT Point System	Testing	<i>TC-08 Like thread or post</i>
	Inspection	<i>TC-09 Dislike thread or post</i>
CR-3: Notification System	Testing	<i>TC-04 Create post</i>
		<i>TC-08 Like thread or post</i>

		<i>TC-09 Dislike thread or post</i>
CR-4: Profile	Testing Inspection	<i>TC-12 Edit user profile</i>
CR-5: Leaderboard	Inspection	
CR-6: Redemption	Testing Inspection	<i>TC-13 Redeem an item or a gift card</i> <i>TC-14 Edit an item or a gift card</i> <i>TC-15 Add an item or a gift card</i> <i>TC-16 Delete an item or a gift card</i>
CR-7: Event System	Testing Inspection	<i>TC-17 Create an event</i> <i>TC-18 Edit an event</i>
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 create thread with correct information.

Test Case Number	TC-01-01 Check create 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	<ol style="list-style-type: none"> 1. Click create thread 2. Put appropriate information in every required fields. 3. Click submit
Expected Output Specifications	The created thread page is shown.
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all the following conditions.</p> <ul style="list-style-type: none"> • The thread is created correctly • Created thread data is stored in database correctly <p>Fail criteria:</p>

	<ul style="list-style-type: none"> Other than pass criteria.
Assumptions and Constraints	<ul style="list-style-type: none"> There are no violate information when the thread is created Every required fields is filled. The user have 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 create thread with some missing required fields.

Test Case Number	TC-01-02 Create 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	<ol style="list-style-type: none"> Click create thread Put information in the form with some blank required field Click submit
Expected Output Specifications	<ul style="list-style-type: none"> The system show red text to identify the missing required fields. No change for the fields that have already been filled.
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all the following conditions.</p> <ul style="list-style-type: none"> The error message is shown correctly No change for the other fields. <p>Fail criteria:</p> <ul style="list-style-type: none"> Other than pass criteria.
Assumptions and Constraints	The user have 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 create 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	<ol style="list-style-type: none"> 1. Click create thread 2. Put information with restricted word in the form. 3. Click submit
Expected Output Specifications	The created thread page is shown without restricted information.
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all the following conditions</p> <ul style="list-style-type: none"> • The thread is created correctly without restricted information. • Created thread data without restricted information is stored in database correctly. <p>Fail criteria:</p> <ul style="list-style-type: none"> • Other than pass criteria.
Assumptions and Constraints	<ul style="list-style-type: none"> • Every required fields is filled. • The user have 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 edit thread with correct information

Test Case Number	TC-02-01 Check edit 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	<ol style="list-style-type: none"> 1. Click edit thread 2. Change information in some fields 3. Click submit
Expected Output Specifications	The edited thread page is shown with edited mark and timestamp.
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all the following conditions.</p> <ul style="list-style-type: none"> • The thread is edited correctly. • Edited thread data is updated in database correctly. <p>Fail criteria:</p> <ul style="list-style-type: none"> • Other than pass criteria.
Assumptions and Constraints	<ul style="list-style-type: none"> • There are no violate information when the thread is edited • Every required fields is filled. • The user have 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 edit 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	<ol style="list-style-type: none"> 1. Click edit thread 2. Change information in some fields and leave some required fields blank. 3. Click submit
Expected Output Specifications	<ul style="list-style-type: none"> • The system shows red text to identify the missing required fields. • No change for the other fields.
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all the following conditions.</p> <ul style="list-style-type: none"> • The error message is shown correctly. • No change for the other fields. <p>Fail criteria:</p> <ul style="list-style-type: none"> • Other than pass criteria.
Assumptions and Constraints	The user have 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 edit thread with restricted word.

Test Case Number	TC-02-03 Check edit 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	<ol style="list-style-type: none"> 1. Click edit thread 2. Update information where some update information is

	restricted. 3. 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. <ul style="list-style-type: none"> • The thread is edited correctly without restricted information. • Edited thread data without restricted information is stored in database correctly. Fail criteria: <ul style="list-style-type: none"> • Other than pass criteria.
Assumptions and Constraints	<ul style="list-style-type: none"> • Every required fields is filled. • The user have 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 delete thread by a user with permission.

Test Case Number	TC-03-01 Check delete 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	<ol style="list-style-type: none"> 1. Click delete thread 2. Confirm to delete the thread
Expected Output Specifications	The forum page is shown without the deleted thread.
Pass/Fail Criteria	<p>Pass criteria: This test will passed when meet all the following conditions</p> <ul style="list-style-type: none"> • The thread is deleted from the forum correctly. • Deleted thread status is changed to deleted. <p>Fail criteria:</p> <ul style="list-style-type: none"> • 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 delete thread by a user without permission.

Test Case Number	TC-03-02 Check delete 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. <ul style="list-style-type: none"> • An error message is shown correctly. • User can not delete the thnread. Faile cirteria: <ul style="list-style-type: none"> • Other than pass criteria.
Assumptions and Constraints	The user has no permission to delete the thread. pas
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 create post with correct information

Test Case Number	TC-04-01 Check create post with correct information.
Test Item	Create post functionality is tested using appropriate information.
Test Priority	M (Must Have)
Pre-conditions	The system display the thread page where user want to create a post.

Post-conditions	The created post display correctly.
Input Specifications	<ol style="list-style-type: none"> 1. Click create post 2. Put appropriate information in every required fields. 3. Click submit
Expected Output Specifications	The thread page is shown with the created post.
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all the following conditions.</p> <ul style="list-style-type: none"> • The post is created correctly. • Created post data is stored in database. • A notification to owner of the thread is created correctly. <p>Fail criteria:</p> <ul style="list-style-type: none"> • Other than pass criteria.
Assumptions and Constraints	<ul style="list-style-type: none"> • There are no violate information when the post is created • Every required fields is filled. • The user have 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 create post with some missing required fields

Test Case Number	TC-04-02 Check create 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 display 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	<ol style="list-style-type: none"> 1. Click create post 2. Put information in the form with some blank required fields. 3. Click submit
Expected Output Specifications	<ul style="list-style-type: none"> • The system show red text to identify the missing required fields. • No change for the fields that have already been filled.

Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all the following conditions.</p> <ul style="list-style-type: none"> The error message is shown correctly. No change for the other fields. <p>Fail criteria:</p> <ul style="list-style-type: none"> Other than pass criteria.
Assumptions and Constraints	<ul style="list-style-type: none"> The user have 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 create post with restricted word.

Test Case Number	TC-04-03 Check create post with restricted word.
Test Item	Create post functionality is tested with restricted information.
Test Priority	M (Must Have)
Pre-conditions	The system display the thread page where user want to create a post.
Post-conditions	The created post display on the monitor without restricted information.
Input Specifications	<ol style="list-style-type: none"> 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	<p>Pass criteria: This test will pass when meet all the following conditions.</p> <ul style="list-style-type: none"> 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. <p>Fail criteria:</p> <ul style="list-style-type: none"> Other than pass criteria.
Assumptions and Constraints	<ul style="list-style-type: none"> The user have permission to create a post on the thread.

	<ul style="list-style-type: none"> Every required field 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 edit post with correct information.

Test Case Number	TC-05-01 Check edit 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 show the post which user want to edit.
Post-conditions	The edited post display correctly.
Input Specifications	<ol style="list-style-type: none"> Click edit post Change information in some field. Click submit
Expected Output Specifications	<ul style="list-style-type: none"> The edited post is shown on the thread page with edited mark and timestamp. Database update post information correctly.

	<ul style="list-style-type: none"> The post is mark as edited with timestamp.
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all the following conditions.</p> <ul style="list-style-type: none"> The post is edited correctly. The edited mark with timestamp is shown on the post. Edited post data is updated in database. <p>Fail criteria:</p> <ul style="list-style-type: none"> Other than pass criteria.
Assumptions and Constraints	<ul style="list-style-type: none"> 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 edit post with some missing required fields.

Test Case Number	TC-05-02 Check edit 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 identify the missing field in the form.
Input Specifications	<ol style="list-style-type: none"> Click edit post Change information in some fields and leave some required fields blank. Click submit
Expected Output Specifications	<ul style="list-style-type: none"> The system show red text to identify the missing required fields. No change for the other fields.
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all the following conditions.</p> <ul style="list-style-type: none"> The error message is shown correctly. No change for the other fields. <p>Fail criteria:</p> <ul style="list-style-type: none"> Other than pass criteria.

Assumptions and Constraints	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 15: TC-05-03 Check edit post with restricted word.

Test Case Number	TC-05-03 Check edit 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	<ol style="list-style-type: none"> 1. Click edit post 2. Update information where some update information is restricted. 3. Click submit
Expected Output Specifications	<ul style="list-style-type: none"> • 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	<p>Pass criteria: This test will pass when meet all the following conditions.</p> <ul style="list-style-type: none"> • 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. <p>Fail criteria:</p> <ul style="list-style-type: none"> • Other than pass criteria.
Assumptions and Constraints	<ul style="list-style-type: none"> • 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 delete post by a user with permission.

Test Case Number	TC-06-01 Check delete 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	<ul style="list-style-type: none"> • The system display the thread page without the deleted post. • Post owner pending points is updated.
Input Specifications	<ol style="list-style-type: none"> 1. Click delete post 2. Confirm to delete the post.
Expected Output Specifications	<ul style="list-style-type: none"> • The thread page is shown without the deleted post. • The post status is update to deleted and stored in database
Pass/Fail Criteria	<p>Pass criteria: This test will passed when meet all the following condition.</p> <ul style="list-style-type: none"> • The post is deleted from the thread correctly • The post status is update to deleted and stored in database correctly. <p>Fail criteria:</p>

	<ul style="list-style-type: none"> 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 delete post by a user without permission.

Test Case Number	TC-06-02 Check delete 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	<p>Pass criteria: This test will pass when meet all the following condition.</p> <ul style="list-style-type: none"> An error message is shown correctly User can not delete the post. <p>Fail criteria:</p> <ul style="list-style-type: none"> 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

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 search with proper query texts.

Test Case Number	TC-07-01 Check search 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	<ol style="list-style-type: none"> 1. Put keyword that want to search into search box. 2. Click search.
Expected Output Specifications	<ul style="list-style-type: none"> • A page with list of threads that relevant to the search input is shown. <p>If there is no relevant thread to the search input</p> <ul style="list-style-type: none"> • A page with text “XXX is not matched” is shown which XXX is the search input.
Pass/Fail Criteria	<p>Pass criteria:</p> <ul style="list-style-type: none"> • Expected output is shown correctly and completely. <p>Fail criteria:</p> <ul style="list-style-type: none"> • Other than pass criteria.

Assumptions and Constraints	There is no violate 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 search with restricted query texts.

Test Case Number	TC-07-02 Check search 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	<ol style="list-style-type: none"> Put keyword which restricted texts into search box. Click search
Expected Output Specifications	<ul style="list-style-type: none"> A page with list of threads that relevant to the search input which is not include restricted texts is shown. <p>If there is no relevant thread</p> <ul style="list-style-type: none"> A page with text "XXX is not matched" is shown which XXX is the search input.
Pass/Fail Criteria	<p>Pass criteria:</p> <ul style="list-style-type: none"> Expected out put is shown correctly and completely. <p>Fail criteria:</p> <ul style="list-style-type: none"> 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 like thread or post correctness.

Test Case Number	TC-08-01 Check like thread or 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	<ul style="list-style-type: none"> • Like and dislike button is changed to unlike button. • WAT point of the owner is updated.
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all the following conditions.</p> <ul style="list-style-type: none"> • 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. <p>Fail criteria:</p> <ul style="list-style-type: none"> • 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 unlike thread or post correctness.

Test Case Number	TC-08-02 Check unlike 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 thread or post he want to unlike is.
Post-conditions	Unlike button is changed to like and dislike button.
Input Specifications	Click unlike
Expected Output Specifications	<ul style="list-style-type: none"> Unlike button is changed to like and dislike button WAT point of the owner is updated.
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all the following conditions.</p> <ul style="list-style-type: none"> Button is changed correctly. WAT point of the owner is update correctly. Status and point data is update in database correctly. <p>Fail criteria:</p> <ul style="list-style-type: none"> 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 dislike thread or post correctness.

Test Case Number	TC-09-01 Check dislike 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	<ul style="list-style-type: none"> • Like and dislike button is changed to undislike button. • WAT point of the owner is updated.
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all the following conditions.</p> <ul style="list-style-type: none"> • 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. <p>Fail criteria:</p> <ul style="list-style-type: none"> • 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 undislike thread or post correctness.

Test Case Number	TC-09-02 Check 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 undilike is.
Post-conditions	Undilike button is changed to like and dislike buttons.
Input Specifications	Click undilike.
Expected Output Specifications	Undilike button is changed to like and dislike buttons.
Pass/Fail Criteria	Pass criteria: This test will pass when meet all the following conditions. <ul style="list-style-type: none"> • Button is changed correctly. • WAT point of the owner is update correctly. • Status and point data us update in database correctly. Fail criteria: <ul style="list-style-type: none"> • Other than pass criteria.
Assumptions and Constraints	The user 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.

3.10TC-10 Pin thread

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 thread is pinned correctly when the user has permission.
- The thread can not be pinned when the user has no permission.

3.10.4 Test Cases

Table 24: TC-10-01 Check pin thread correctness.

Test Case Number	TC-10-01 Check pin thread correctness.
Test Item	Pin thread functionality is tested when user pin a thread.
Test Priority	M (Must Have)
Pre-conditions	The system display forum page where the thread user want to pin is.
Post-conditions	The thread is pinned and show on the pinned thread space.
Input Specifications	Click pin thread.
Expected Output Specifications	<ul style="list-style-type: none"> The thread is pinned and show at the top of forum. The pin button of the thread is disable.
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all the following conditions.</p> <ul style="list-style-type: none"> The thread is pinned correctly. The thread status is updated correctly in database. The pin button is disable correctly. <p>Fail criteria:</p> <ul style="list-style-type: none"> Other than pass criteria.
Assumptions and Constraints	<ul style="list-style-type: none"> User have permission to pin the thread. The thread is not pinned before.
Dependencies	N/A
Traceability	<p>WC_3251: As a user, I can mark any comment as the "best answer" to a question so that other users can easily see the most credible answer in the thread.</p> <p>WC_3248: As an administrator, I can pin a thread so that supremely important information gets highlighted for other users.</p>

Table 25: TC-10-02 Check unpin thread correctness.

Test Case Number	TC-10-02 Check unpin thread correctness.
Test Item	Pin thread functionality when user unpin a thread.
Test Priority	M (Must Have)
Pre-conditions	The system display forum page where the thread user want to unpin is.

Post-conditions	The thread is unpinned and show on the normal thread space.
Input Specifications	Click unpin thread.
Expected Output Specifications	<ul style="list-style-type: none"> The thread is remove form the pin thread space. The pin button of the thread is enable
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all the following conditions.</p> <ul style="list-style-type: none"> The thread is unpinned correctly. The thread status is updated correctly and store in database. The pin button is enable correctly. <p>Fail criteria:</p> <ul style="list-style-type: none"> Other than pass criteria.
Assumptions and Constraints	<ul style="list-style-type: none"> The thread is pinned before User have permission to unpinned the thread.
Dependencies	N/A
Traceability	<p>WC_3251: As a user, I can mark any comment as the "best answer" to a question so that other users can easily see the most credible answer in the thread.</p> <p>WC_3248: As an administrator, I can pin a thread so that supremely important information gets highlighted for other users.</p>

3.11TC-11 Report thread or post

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

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

3.11.4 Test Cases

Table 26: TC-11-01 Check report thread or post correctness.

Test Case Number	TC-11-01 Check report 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 disable.
Input Specifications	Click report thread.
Expected Output Specifications	The report button of the thread or post is disable.
Pass/Fail Criteria	<p>Pass criteria: This test case will pass when meet all of the following condition.</p> <ul style="list-style-type: none"> • The thread status is update and store in database correctly. • The report button is disable correctly for the user. <p>Fail criteria:</p> <ul style="list-style-type: none"> • Other than pass criteria.
Assumptions and Constraints	<ul style="list-style-type: none"> • User have 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.

3.12TC-12 Edit user profile

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

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

3.12.4 Test Cases

Table 27: TC-12-01 Check edit user profile with appropriate information.

Test Case Number	TC-12-01 Check edit user profile with appropriate information.
Test Item	User profile with editing functionality.
Test Priority	M (Must Have)
Pre-conditions	The system display user profile of the user.
Post-conditions	The system display the user profile page with changed information changed.
Input Specifications	<ol style="list-style-type: none"> 1. Click edit user profile button. 2. Change information on selected field. 3. Click submit.
Expected Output Specifications	The user profile information is changed
Pass/Fail Criteria	<p>Pass criteria: This test case will pass when meet all of the following condition.</p> <ul style="list-style-type: none"> • The user can edit his user profile correctly. • User information is updated and store in database correctly. <p>Fail criteria:</p> <ul style="list-style-type: none"> • 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 28: TC-12-02 Check edit 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	An appropriate error show and identified why the data user give is invalid to the system.
Input Specifications	<ol style="list-style-type: none"> 1. Click edit button 2. changed some information 3. Click submit
Expected Output Specifications	System decline the editing and an error according to the invalid information user given is show.
Pass/Fail Criteria	<p>Pass criteria: This test case will pass when meet all of the following condition.</p> <ul style="list-style-type: none"> • The error message is shown correctly • System decline the edited. <p>Fail criteria:</p> <ul style="list-style-type: none"> • Other than pass criteria.
Assumptions and Constraints	The user have 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 29: TC-12-03 Check change user profile image.

Test Case Number	TC-12-03 Check change 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	<ol style="list-style-type: none"> 1. Click edit profile image button 2. Choose new profile image 3. 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 5MB.
Pass/Fail Criteria	<p>Pass criteria: This test case will pass when meet all of the following condition.</p> <ul style="list-style-type: none"> • The expected output is showed. • Database is update correctly. <p>Fail criteria:</p>

	<ul style="list-style-type: none"> Other than pass criteria.
Assumptions and Constraints	The user have 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.

3.13 TC-13 Redeem 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 system send an coupon email to the user correctly and completely.
- The system show an appropriate error message according to the mistake made.

3.13.4 Test Cases

Table 30: TC-13-01 Check redeem an item or a gift card with enough usable points.

Test Case Number	TC-13-01 Check redeem 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 display the store page.
Post-conditions	System response success.
Input Specifications	<ol style="list-style-type: none"> Click redeem an item or gift card. Click confirm.
Expected Output	<ul style="list-style-type: none"> System response success.

Specifications	<ul style="list-style-type: none"> A coupon email is sent to the user. Usable point of the user is reduce.
Pass/Fail Criteria	<p>Pass criteria: This test case will pass when meet all of the following condition.</p> <ul style="list-style-type: none"> 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 reduce and update to the database correctly. <p>Fail criteria:</p> <ul style="list-style-type: none"> Other than pass criteria.
Assumptions and Constraints	User have enough usable point to redeem the item or gift card.
Dependencies	N/A
Traceability	<p>WC_3435: As a user I can use my WAT points to redeem items from a virtual store.</p> <p>WC_3435: As a user, I can redeem usable WAT points so that I can receive a gift card.</p>

Table 31: TC-13-02 Check redeem an item or a gift card without enough usable points.

Test Case Number	TC-13-02 Check redeem 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	<p>Pass criteria: This test case will pass when meet all of the following condition.</p> <ul style="list-style-type: none"> The error is shown correctly. The system decline the redemption correctly. <p>Fail criteria:</p> <ul style="list-style-type: none"> Other than pass criteria.

Assumptions and Constraints	The user have 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.

3.14 TC-14 Edit 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

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

3.14.4 Test Cases

Table 32: TC-14-01 Check edit an item or a gift card with appropriate information.

Test Case Number	TC-14-01 Check edit 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	<ol style="list-style-type: none"> 1. Click edit items or gift card 2. change the information of the item or gift card 3. Click submit

Expected Output Specifications	The item or gift card information is changed
Pass/Fail Criteria	<p>Pass criteria: This test case will pass when meet all of the following condition.</p> <ul style="list-style-type: none"> The item or gift card information is changed correctly The item or gift card data is updated in database <p>Fail criteria:</p> <ul style="list-style-type: none"> Other than pass criteria.
Assumptions and Constraints	<ul style="list-style-type: none"> The user have permission to edit the item or gift card. There are no violate information in the form.
Dependencies	N/A
Traceability	<p>WC_3436: As a moderator, I can add a gift card to the system so that users can redeem gift cards using their points.</p> <p>WC_3437: As a moderator, I can add a product to the gift store so that users can redeem gifts using their points.</p>

Table 33: TC-14-02 Check edit an item or a gift card with missing required field.

Test Case Number	TC-14-02 Check edit 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 identify the missing fields in the form.
Input Specifications	<ol style="list-style-type: none"> Click edit item or gift card. Put information in the form with some blank required fields. Click submit
Expected Output Specifications	<ul style="list-style-type: none"> The system show red text to identify the missing required fields. No change for the fields that have already been filled.
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all of the following conditions.</p> <ul style="list-style-type: none"> The error message is shown correctly No change for the other fields.

	Fail criteria: <ul style="list-style-type: none"> Other than pass criteria.
Assumptions and Constraints	The user have 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 34: TC-14-03 Check edit an item or a gift card with invalid information.

Test Case Number	TC-14-03 Check edit 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	<ol style="list-style-type: none"> Click edit an item change some information which some of them is invalid Click submit
Expected Output Specifications	<ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> The error message is shown correctly No change for the other fields. Fail criteria: <ul style="list-style-type: none"> Other than pass criteria.
Assumptions and Constraints	The user have permission to edit the item or gift card.
Dependencies	N/A

Traceability	<p>WC_3436: As a moderator, I can add a gift card to the system so that users can redeem gift cards using their points.</p> <p>WC_3437: As a moderator, I can add a product to the gift store so that users can redeem gifts using their points.</p>
--------------	--

3.15TC-15 Add 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 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.

3.15.4 Test Cases

Table 35: TC-15-01 Check add an item or a gift card with correct information.

Test Case Number	TC-15-01 Check add 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 display the store page.
Post-conditions	The system show the store page with added item or gift card.
Input Specifications	<ol style="list-style-type: none"> 1. Click add item or gift card 2. Put item or gift card information. 3. Click submit
Expected Output Specifications	The added item or gift card is shown in the store.
Pass/Fail Criteria	<p>Pass criteria:</p> <p>This test case will pass when meet all of the following conditions.</p>

	<ul style="list-style-type: none"> The item or gift card is added correctly. The item or gift card data is stored correctly in database <p>Fail criteria:</p> <ul style="list-style-type: none"> Other than pass criteria.
Assumptions and Constraints	The user have permission to add an item or gift card.
Dependencies	N/A
Traceability	<p>WC_3436: As a moderator, I can add a gift card to the system so that users can redeem gift cards using their points.</p> <p>WC_3437: As a moderator, I can add a product to the gift store so that users can redeem gifts using their points.</p>

Table 36: TC-15-02 Check add an item or a gift card with missing required field.

Test Case Number	TC-15-02 Check add an item or a gift card with missing required field
Test Item	Redemption functionality is tested when maintainer add item or gift card but miss required field.
Test Priority	M (Must Have)
Pre-conditions	The system display the store page.
Post-conditions	The system identify the missing fields in the form.
Input Specifications	<ol style="list-style-type: none"> Click add item or gift card. Put information in the form with leave some required fields blank. Click submit.
Expected Output Specifications	<ul style="list-style-type: none"> The system show red text to identify the missing required fields. No change for the fields that have already been filled.
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all of the following conditions.</p> <ul style="list-style-type: none"> The error message is shown correctly No change for the other fields. <p>Fail criteria:</p> <ul style="list-style-type: none"> Other than pass criteria.
Assumptions and Constraints	<ul style="list-style-type: none"> The user have permission to add an item or gift card.

	<ul style="list-style-type: none"> Every required fields is filled.
Dependencies	N/A
Traceability	<p>WC_3436: As a moderator, I can add a gift card to the system so that users can redeem gift cards using their points.</p> <p>WC_3437: As a moderator, I can add a product to the gift store so that users can redeem gifts using their points.</p>

Table 37: TC-15-03 Check add an item or a gift card with invalid information.

Test Case Number	TC-15-03 Check add 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 display the store page.
Post-conditions	The system response an error message identify why the information is invalid.
Input Specifications	<ol style="list-style-type: none"> Click add an item or gift card Put information with some invalid information Click submit
Expected Output Specifications	<ul style="list-style-type: none"> An error message identify why the information is invalid No change for the fields that have already been filled.
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all of the following conditions.</p> <ul style="list-style-type: none"> The error message is shown correctly No change for the other fields. <p>Fail criteria:</p> <ul style="list-style-type: none"> Other than pass criteria.
Assumptions and Constraints	<ul style="list-style-type: none"> The user have 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.
--	---

3.16 TC-16 Delete an item or a gift card

3.16.1 Test Level

Software item level

3.16.2 Test Class

Erroneous test

3.16.3 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.

3.16.4 Test Cases

Table 38: TC-16-01 Check delete an item or a gift card correctness

Test Case Number	TC-16-01 Check delete 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	<ol style="list-style-type: none"> 1. Click redemption page 2. Choose the items or gift cards you want to delete 3. Click the deletion submit 4. Pop up a window to confirm the deletion again 5. Click "Yes"
Expected Output Specifications	<ul style="list-style-type: none"> • 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:

	<p>This test will pass when meet all of the following conditions.</p> <ul style="list-style-type: none"> • The items or gift cards is deleted in the database • The deleted items or gift cards is removed in the redemption page <p>Fail criteria:</p> <ul style="list-style-type: none"> • Other than pass criteria.
Assumptions and Constraints	The redemption page should have items or gift card that should be deleted
Dependencies	N/A
Traceability	<p>WC_3436: As a moderator, I can add a gift card to the system so that users can redeem gift cards using their points.</p> <p>WC_3437: As a moderator, I can add a product to the gift store so that users can redeem gifts using their points.</p>

3.17TC-17 Create 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 an event will be completed when

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

3.17.4 Test Cases

Table 39: TC-17-01 Check create an event with correct information.

Test Case Number	TC-17-01 Check create 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	<ol style="list-style-type: none"> 1. Click add an event 2. Input information on required fields 3. Click submit
Expected Output Specifications	<ul style="list-style-type: none"> • The event is create with timestamp and saved in the database system. • The event will be shown in the homepage
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all of the following conditions.</p> <ul style="list-style-type: none"> • The event is saved in the database • The even is shown in the homepage <p>Fail criteria:</p> <ul style="list-style-type: none"> • 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-17-02 Check create an event with correct information and “notify-all” options selected

Test Case Number	TC-17-02 Check create 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	<p>The event is successfully created and no error message is received.</p> <p>Everyone who is registered in the system will receive that event</p>
Input Specifications	<ol style="list-style-type: none"> 1. Click add an event 2. Input information on required fields 3. Click “notify-all” option selected 4. Click submit

Expected Output Specifications	<ul style="list-style-type: none"> 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	<p>Pass criteria: This test will pass when meet all of the following conditions.</p> <ul style="list-style-type: none"> The event is saved in the database the notification system fires a notification about the event to everyone. <p>Fail criteria:</p> <ul style="list-style-type: none"> 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 41: TC-17-03 Check create an event with missing required field.

Test Case Number	TC-17-03 Check create an event with missing required field.
Test Item	<p>create an event functionality is tested without some important information</p> <p>The system displays an event input form so the maintainer can create an event using that form</p>
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	<ol style="list-style-type: none"> Click create an event Input information in some fields and leave some required fields blank. Click submit
Expected Output Specifications	<ul style="list-style-type: none"> The system shows an error message The system identifies the missing field(s)
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all of the following conditions.</p> <ul style="list-style-type: none"> The error message is shown correctly

	<ul style="list-style-type: none"> The fields that have a missing information is highlighted the event is not saved <p>Fail criteria:</p> <ul style="list-style-type: none"> 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.

3.18TC-18 Edit an event

3.18.1 Test Level

Software item level

3.18.2 Test Class

Erroneous test

3.18.3 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.

3.18.4 Test Cases

Table 42: TC-18-01 Check edit 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	<ol style="list-style-type: none"> 1. The maintainer click edit the event. 2. The maintainer update information in the event-editing page.

	3. 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. <ul style="list-style-type: none"> • The event is correctly edited. • The updated event is updated in the database Fail criteria: <ul style="list-style-type: none"> • Other than pass criteria.
Assumptions and Constraints	<ul style="list-style-type: none"> • 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-18-02 Check edit an event with correct information and a notification-all option selected.

Test Case Number	TC-18-02 Check edit 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 notify all users in of the system.
Input Specifications	<ol style="list-style-type: none"> 1. The maintainer click edit the event. 2. The maintainer update information in the event-editing page. 3. The maintainer click submit.
Expected Output Specifications	<ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • The event is correctly edited. • A new notification is created and send to all users.

	<ul style="list-style-type: none"> The updated event is updated in the database <p>Fail criteria:</p> <ul style="list-style-type: none"> Other than pass criteria.
Assumptions and Constraints	<ul style="list-style-type: none"> 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 44: TC-18-03 Check create thread with some missing field.

Test Case Number	TC-18-03 Check create thread 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	<ol style="list-style-type: none"> The maintainer click edit the event. The maintainer update information in the event-editing page but miss some fields. The maintainer click submit.
Expected Output Specifications	An error message is shown to the maintainer.
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all the following conditions.</p> <ul style="list-style-type: none"> The correct message is shown to the user indicating precise required fields. <p>Fail criteria:</p> <ul style="list-style-type: none"> Other than pass criteria.
Assumptions and Constraints	<ul style="list-style-type: none"> 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 45: TC-18-04 Check edit an event with restricted word.

Test Case Number	TC-18-04 Check edit 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	<ol style="list-style-type: none"> 1. The maintainer clicks edit the event. 2. The maintainer updates information in the event-editing page but uses restricted words. 3. The maintainer clicks submit.
Expected Output Specifications	An error message is shown to the user.
Pass/Fail Criteria	<p>Pass criteria: This test will pass when meet all the following conditions.</p> <ul style="list-style-type: none"> • The correct message is shown to the user indicating input errors. <p>Fail criteria:</p> <ul style="list-style-type: none"> • Other than pass criteria.
Assumptions and Constraints	<ul style="list-style-type: none"> • The user has a permission to edit the event. • The user makes a mistake by using restricted words when he/she click 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.

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 own data set to test the system
- Next gather actual user information

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 46: Testing Schedule

Date	Test Identifier	Responsible person	Resources	Training needs
02/10/15	TC-12	Pittawat Pamornchaisirikij, Suleyman Erten	- Computer with installed software. - IOS and Android devices. - Test dataset	N/A
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

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