

AY2011 / 12 Term 2

IS480 User Requirement Specifications



whatsNex

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Version Update Log

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2	06.10.11	Completed User Requirement Specification Draft 1	Eddy & Chuen Full	1.0
3	17.10.11	Updated document with inputs from Prof Ben <ul style="list-style-type: none">- Consolidate Use Case into C-U-D- Insert new use case View Event for User	Eddy & Chuen Full	1.2
TO BE REMOVED DURING SUBMISSION.				

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1. Purpose

The purpose of the user requirement specifications is to document the stakeholder needs and expectations for the application. The stakeholders are professor and students. All models constructed in this document follow the standard UML notations.

2. Reference

The following references are used for requirement gathering and analysis:

- Project Proposal Draft
- Formal and Informal discussion with the Project Sponsors and Client
- Project minutes

3. Assumptions

The following are the specific assumptions made to satisfy and validate the requirements against the system developed:

- Users in the same group are given a common login to be used to login into the system.
- A team credential is created when a team is created by the administrator.

4. Constraints

The followings are the constraints identified:

- Administrator has to create an event before he/she can create waypoints or create questions for waypoints.

6. Detailed Use Case Description

6.1 Common Function

6.1.1 Login

Brief Description:	Allow users to login into the application
Pre-Condition:	Users will be given an access code randomly generated from the teaching assistant / instructor.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case starts when user chooses the login option. 2. User will input the pre-assigned access code and submit the form. 3. Upon successful verification, user will be redirected to the event assigned <<main.html>>.
Alternate Flow:	If the verification fails, user will be prompted with an error message.
Post-Condition:	-

6.1.2 Chat

Brief Description:	Allows message communication between the teams and professor.
Pre-Condition:	The users must be login in order to utilise the chat function.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case starts when user chooses the chat function from the main page when he/she has any doubts or faces any difficulties along the journey. 2. User can select the intended recipient, Team or Professor to chat. 3. The chat can be run on the background of the application.
Alternate Flow:	-
Post-Condition:	-

6.2 Administrator Function

6.2.1 Event

Create Event

Brief Description:	Allows user with administrator privilege to create an event.
Pre-Condition:	The user must login with administrator privilege.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case starts when user makes the selection to create a new event from the administrator main page. 2. The user will input the following details: <ol style="list-style-type: none"> a. Event Name b. Start Date/Time c. End Date/Time d. Number of Teams 3. The user will submit the form and the event will be created.
Alternate Flow:	-
Post-Condition:	-

Update Event

Brief Description:	Allows user with administrator privilege to edit the details of an existing event created.
Pre-Condition:	The user must login with administrator privilege and the event must be created.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case starts when user makes the selection to edit an existing event from the administrator main page. 2. The user can edit the following details: <ol style="list-style-type: none"> a. Event Name b. Start Date/Time c. End Date/Time d. Number of Teams 3. The user will submit the form and the event will be updated.
Alternate Flow:	-
Post-Condition:	-

Delete Event

Brief Description:	Allows user with administrator privilege to delete an existing event.
Pre-Condition:	The user must login with administrator privilege and the event must be created.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case starts when user makes the selection to delete an existing event from the administrator main page. 2. The user will submit the form to delete the event.
Alternate Flow:	-
Post-Condition:	-

6.2.2 Start Event

Brief Description:	Allows user with administrator privilege to start an event.
Pre-Condition:	The user must login with administrator privilege and the event must be created.
Basic Flow:	<ol style="list-style-type: none"> 1. The user case starts when user makes the selection to start the event. 2. The event status will be updated to “In-Progress”.
Alternate Flow:	-
Post-Condition:	-

6.2.3 End Event

Brief Description:	Allows user with administrator privilege to end an event.
Pre-Condition:	The user must login with administrator privilege and the event must be started.
Basic Flow:	<ol style="list-style-type: none"> 1. The user case starts when user makes the selection to end the selected event. 2. The event status will be updated as “Complete”.
Alternate Flow:	-
Post-Condition:	-

6.2.4 Waypoint

Create Waypoint

Brief Description:	Allows user with administrator privilege to create a waypoint for a selected event.
Pre-Condition:	The user must login with administrator privilege and the event to insert waypoint must be created.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case starts when user makes the selection to create a waypoint in a selected event from the event page. 2. The user will input the following details: <ol style="list-style-type: none"> a. Position No. b. Latitude c. Longitude d. Password e. Photo 3. The user will submit the form and the event will be created.
Alternate Flow:	<ol style="list-style-type: none"> 1. The use case starts when user makes the selection to update a waypoint in a selected event from the event page. 2. The user can use the mobile check-in function to input the Latitude and Longitude. 3. The user will submit the form and the event will be created.
Post-Condition:	-

Update Waypoint

Brief Description:	Allows user with administrator privilege to update an existing waypoint.
Pre-Condition:	The user must login with administrator privilege and the waypoint must be created and selected.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case starts when user makes the selection to update a waypoint in a selected event from the event page. 2. The user can edit the following details: <ol style="list-style-type: none"> a. Position No. b. Latitude c. Longitude d. Password e. Photo 3. The user will submit the form and the event will be updated.
Alternate Flow:	-
Post-Condition:	-

Delete Waypoint

Brief Description:	Allows user with administrator privilege to delete an existing waypoint.
Pre-Condition:	The user must login with administrator privilege and the waypoint must be created and selected.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case starts when user makes the selection to delete an existing waypoint in the event page. 2. The user will submit the form to delete the waypoint.
Alternate Flow:	-
Post-Condition:	-

6.2.5 Question

Create Question

Brief Description:	Allows user with administrator privilege to create a question for a specific waypoint.
Pre-Condition:	The user must login with administrator privilege and the event and waypoint must be created.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case starts when user makes the selection to create a question for a selected waypoint. 2. The user will input the following details: <ol style="list-style-type: none"> a. Questions b. Option A c. Option B d. Option C e. Option D f. Option E g. Answer for the Question 3. The user will submit the form and the question will be created.
Alternate Flow:	-
Post-Condition:	-

Update Question

Brief Description:	Allows user with administrator privilege to update an existing question.
Pre-Condition:	The user must login with administrator privilege and the question must be created.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case starts when user makes the selection to update a question for a selected waypoint. 2. The user can edit the following details: <ol style="list-style-type: none"> a. Questions b. Option A c. Option B d. Option C e. Option D f. Option E g. Answer for the Question 3. The user will submit the form and the question will be created.
Alternate Flow:	-
Post-Condition:	-

Delete Question

Brief Description:	Allows user with administrator privilege to delete an existing question.
Pre-Condition:	The user must login with administrator privilege and the question must be created.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case starts when user makes the selection to delete a question for a selected waypoint. 2. The user will submit the form to delete the question.
Alternate Flow:	-
Post-Condition:	-

6.2.6 Team Registration

Create Team

Brief Description:	Allows user with administrator privilege to create a team for an existing event.
Pre-Condition:	The user must login with administrator privilege and the event must be created.
Basic Flow:	<ol style="list-style-type: none"> 1. The user case starts when user makes the selection to create a team for the event. 2. The user will input the following details: <ol style="list-style-type: none"> a. Team Name b. Member 1's Name c. Member 2's Name d. Member 3's Name e. Member 4's Name 3. The user will submit the form and the team will be created. 4. A random access code will be generated for the team login.
Alternate Flow:	-
Post-Condition:	-

Update Team

Brief Description:	Allows user with administrator privilege to update an existing team.
Pre-Condition:	The user must login with administrator privilege and the team must be created.
Basic Flow:	<ol style="list-style-type: none"> 1. The user case starts when user makes the selection to update an existing team for the selected event. 2. The user can edit the following details: <ol style="list-style-type: none"> a. Team Name b. Member 1's Name c. Member 2's Name d. Member 3's Name e. Member 4's Name 3. The user will submit the form and the team will be updated.
Alternate Flow:	-
Post-Condition:	-

Delete Team

Brief Description:	Allows user with administrator privilege to delete an existing team.
Pre-Condition:	The user must login with administrator privilege and the team must be created.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case starts when user makes the selection to delete a team for a selected event. 2. The user will submit the form to delete the question.
Alternate Flow:	-
Post-Condition:	-

6.2.7 View Event Results

Brief Description:	Allows user with administrator privilege to view the results of the participating team for a specific environment.
Pre-Condition:	The user must login with administrator privilege and an event must be selected to view the results.
Basic Flow:	The use case starts when user makes the selection to view the results for a selected event.
Alternate Flow:	-
Post-Condition:	-

6.2.8 Download Results

Brief Description:	Allows user with administrator privilege to download the results of the specific environment after the event is stopped.
Pre-Condition:	The user must login with administrator privilege and the event must be completed.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case starts when user makes the selection to download a completed event result from the list. 2. The result can be downloaded in excel or pdf format.
Alternate Flow:	-
Post-Condition:	-

6.3 User Function

6.3.1 View Event

Brief Description:	Allow user to view the available event upon login
Pre-Condition:	The user has to be login with the system.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case begins when the user login into the system. 2. The function will show user the list of available event he/she is able to participate in.
Alternate Flow:	-
Post-Condition:	-

6.3.2 View Waypoint

Brief Description:	Allows user to view their next waypoint through usage of a map.
Pre-Condition:	The user has to be login with the system and the event must be started.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case begins when the user is able to view his/her first designated waypoint. 2. The function will plot the designated waypoint by means of a visual map and provides a reference photo of the location. 3. The function will guide the user in navigating by providing direction from the starting location.
Alternate Flow:	<ol style="list-style-type: none"> 1. The use case begins when user completes their designated waypoint. 2. The function will plot the next designated waypoint by means of a visual map and provides a reference photo of the location. 3. The function will guide the user in navigating by providing direction from the last location.
Post-Condition:	-

6.3.3 View Question

Brief Description:	Allows user to view the question when they are within a specific range of the waypoint.
Pre-Condition:	The user has to be login with the system, the event must be started and user needs to be at least within a 50 meters radius of the designated waypoint.
Basic Flow:	The use case begins when user is within the designated waypoint. The system will triggers and unlock the question.
Alternate Flow:	<p>In the event if the question is not auto-triggered by the system (due to technical glitch or GPS limitation), the user can inform the administrator through the chat function.</p> <ol style="list-style-type: none"> 1. The user will take and upload an image similar to the reference photo as evidence for arriving at the waypoint. 2. Upon receiving the image, the administrator will send a password to the team to unlock the question manually.
Post-Condition:	-

6.3.4 Answer Question

Brief Description:	Allows user to answer the question for the designated waypoint.
Pre-Condition:	The user has to be login with the system and the question has been unlocked.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case begins when user has selected the option for the question. 2. The user will submit the form to answer the question.
Alternate Flow:	<ol style="list-style-type: none"> 1. The use case begins when user attempts to answer the question. 2. The user can use the chat function to clarify with the administrator any doubts. 3. The user will submit the form to answer the question after clarifying the doubts.
Post-Condition:	-

6.3.5 Upload File

Brief Description:	Allows user to take and upload a photo/file to the system
Pre-Condition:	The user has to be login with the system.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case begins when user attempt to upload a file/photo. 2. The user is given option to upload a file/photo from their phone library. 3. The system will prompt and verify that user is uploading a file/photo. 4. The file/photo is successfully uploaded to the system.
Alternate Flow:	This function can be called by other function such as View Question.
Post-Condition:	-

6.3.6 View Team

Brief Description:	Allows user to view the members of the team.
Pre-Condition:	The user has to be login with the system.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case begins when user attempt to view the team information. 2. The user would be able to view the team members in the team to verify they are in the right grouping.
Alternate Flow:	-
Post-Condition:	-

6.3.7 View Individual Results

Brief Description:	Allows user to view the result of the event enrolled.
Pre-Condition:	The user has to be login with the system.
Basic Flow:	<ol style="list-style-type: none"> 1. The use case begins when user successfully answered the question. 2. The user would be redirected to this page to show the latest result in terms of the following: <ol style="list-style-type: none"> a. Waypoint Completed b. Time taken for each waypoint c. Points awarded for each question of the waypoint
Alternate Flow:	-
Post-Condition:	-