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**List of Possible Use Cases**

<u>Camper:</u>
005: Log in/log out
001: Searching class number/name
002: View classes available
003: Rank camp classes
004: Modify ranking form
006: View class schedule

<u>Instructor:</u>
005: Log in/log out
001: Searching class number/name
002: View classes available
007: Offer classes and time available
008: Print class list
006: View class schedule

<u>Director:</u>
005: Log in/log out
009: Manually add/remove classes
010: Run Class Assignment (running the software that does that + lock?)
011: Manually add/remove camper to/from class

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| Name | Search class |
|---|---|
| **ID** | UC_001 |
| **Description** | A user is able to search the class based on the key word they entered. |
| **Actors** | Camper, Instructor |
| **Organizational Benefits** | Allow Users to search for the class they want based on their penchant. It would be helpful to save lots of time for looking for classes one by one. |
| **Frequency of Use** | It is used under the situation where a camper or instructor want to look at a particular class |
| **Triggers** | The user clicks the search button. |
| **Preconditions** | Classes are assigned properly, and key words(class titles or class IDs) have been typed. |
| **Postconditions** | The particular classes with its description would be shown. |
| **Main Course** | 1. System prompts the user to select search classes by class Name or class ID. (see AC1)<br>2. User selects to search by class Name.<br>3. User types the correct class name in the textbox.(see EX1)<br>4. System finds out the class searched in the database.<br>5. System displays the class description to the user. |
| **Alternate Courses** | AC1 User selects to search by class ID.<br>1. User types the correct class ID in the textbox. (see EX1)<br>2. Direct to Main Course step 4. |
| **Exceptions** | EX1 User does not typed correctly<br>1. Pop up a message "There is no such class". |

| Name | View classes available |
|---|---|
| **ID** | UC_002 |
| **Description** | A user views classes available for the current camp. |
| **Actors** | Camper, Instructor |
| **Organizational Benefits** | For a camper, she/he can view all classes open for this camp with class titles and descriptions so she/he can rank classes.<br>For an instructor, she/he can view all classes with class titles, sections, locations, times and descriptions so she/he can decide which classes to offer for this camp. |
| **Frequency of Use** | Used whenever a user wishes to view the list of current classes |
| **Triggers** | Clicking the "View classes available" button. |
| **Preconditions** | The user is logged in. |
| **Postconditions** | A list of all current classes available is shown to the user. |
| **Main Course** | 1. User clicks the "View classes available" button.<br>2. System lists all classes' titles available for this camp. |

| | 3. User selects to sort the list by class titles . (see AC1) |
|---|---|
| | 4. System sorts the classes available for this camp with increased or decreased order of class titles. |
| | 5. User clicks the "Description" link. (see EX1) |
| | 6. System directs the user to the descriptions of classes. |
| | 7. User clicks the "Sections" link. (only for instructor) |
| | 8. System directs the user to the locations and time schedules of different class sections. (only for instructor) |
| **Alternate Courses** | AC1 User selects to sort the list by class IDs. <br> 1. System sorts the classes available for this camp with increased or decreased order of class IDs. |
| **Exceptions** | EX1 System fails on displaying the descriptions of the classes. <br> 1. Pop up a message "No descriptions of this class". <br> 2. Return user to Main Course step 2. |

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|---|---|
| **Name** | Rank camp classes |
| **ID** | UC_003 |
| **Description** | A user should submit a ranking form with at least five different class titles (not sections) ranked. |
| **Actors** | Camper |
| **Organizational Benefits** | As much as possible to satisfy the appetites of most campers, so effectively engage attendees in the classes offered. |
| **Frequency of Use** | Every camper should submit a ranking form of camp classes at the beginning of camp only once. Not allowed to submit after the directors lock the rankings. |
| **Triggers** | Drag at least five classes from left area to right area and submit ranking form. |
| **Preconditions** | User logs in and is viewing the classes available to select. |
| **Post conditions** | The classes ranked are visible to the user when she/he views her/his ranked classes. <br> The classes ranked are visible to the director and instructor. |
| **Main Course** | 1. System lists all the class titles in the left area and empty the right area. (see EX1) <br> 2. User drags courses from the left to the right according to her/his preferences, with favorite courses at the top, to form a ranking list of courses.(see AC1) <br> 3. User saves and submits the ranking form.(see EX2) <br> 4. System stores the saved ranking form.(see EX3) <br> 5. System redirects the user to their saved/submitted form to see the ranked classes. |
| **Alternate Courses** | AC1 User closes the ranking class window. <br> 1. Pop up a window with "You didn't save yet. Leave now?". <br> 2. User click "Leave". Return the user to "main menu". <br> 3. User click "Cancel". Return the user to Main Course step 1. |
| **Exceptions** | EX1 The classes are not yet provided by the director. <br> 1. Pop up a message " Sorry, the classes are not visible now". <br><br> EX2 System checks whether the ranking form is qualified or not. <br> 1. Pop up a message "Less than five courses. Not qualified". <br> 2. Return user to Main Course step 1. |

| | EX3 System fails on saving ranking forms to list.<br>    1. System notifies the user that an error has occurred.<br>    2. Return user to Main Course step 1. |
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|---|---|
| **Name** | Modify ranking form |
| **ID** | UC_004 |
| **Description** | After a user submits her/his ranking form, he/she can modify the ranking form before the deadline of selecting classes. |
| **Actors** | Camper |
| **Organizational Benefits** | A user can change the ranking of classes anytime before the deadline. So as much as possible to meet the requirements of users. |
| **Frequency of Use** | Once they don't feel comfortable with the latest ranking form they have made. |
| **Triggers** | Click the "Modify" button |
| **Preconditions** | Users have already ranked their classes, and logged in the system. |
| **Post conditions** | The modified ranking form will be saved to the system. |
| **Main Course** | 1. Load the classes ranked in the right area and the classes not ranked in the left. (See Ex1)<br>2. User modifies the ranking by dragging the classes in specific order.   (see AC1)<br>3. User saves and submits the ranking form.(see EX2)<br>4. System stores the saved ranking form.(see EX3)<br>5. System redirects the user to their saved/submitted form to see the ranked classes. |
| **Alternate Courses** | AC1 User closes the ranking class window.<br>    1. Pop up a window with "You didn't save yet. Leave now?".<br>    2. User click "Leave". Return the user to "main menu".<br>    3. User click "Cancel". Return the user to Main Course step 1. |
| **Exceptions** | EX1 System does not have the records of ranking classes.<br>    1. Direct the user to "Rank camp classes" use case.<br><br>EX2 System checks whether the ranking form is qualified or not.<br>    1. Pop up a message "Less than five courses. Not qualified".<br>    2. Return user to Main Course step 1.<br><br>EX3 System fails on saving ranking forms to list.<br>    1. System notifies the user that an error has occurred.<br>    2. Return user to Main Course step 1. |

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|---|---|
| **Name** | Log in/Log out |

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| ID | UC_005 |
|---|---|
| **Description** | Help users to log in/out |
| **Actors** | Instructor/camper/director |
| **Organizational Benefits** | To protect the privacy of users, all of the users have to log into the system with their ID and password. |
| **Frequency of Use** | Whenever users want to look at their account or quit the webpage |
| **Triggers** | Log in/out button clicked |
| **Preconditions** | Users should have a unique ID and their passwords.<br>For log out, users' status should be " logged in". |
| **Postconditions** | Successfully log in the system /Successfully log out the system |
| **Main Course** | 1. System prompts users to enter their ID and password.<br>2. User clicks the "log in" button.<br>3. System check the ID and password are matched. (see AC1, AC2)<br>4. System directs the user to "Main menu".<br>5. User clicks the "log out" button.<br>6. System directs the user to initial "log in" pages. |
| **Alternate Courses** | AC1 User's ID does not exist in the system.<br>1. Pop up a message "ID does not exist."<br>2. Return the user to Main Course step 1.<br><br>AC2 User's ID and password don't match.<br>1. Pop up a message "ID and password don't match."<br>2. Return the user to Main Course step 2. |
| **Exceptions** | EX1 System fails on logging in / logging out.<br>3. System notifies the user that an error has occurred.<br>4. Return the user to Main Course step 1/ step 4. |

| Name | View Class Schedule |
|---|---|
| **ID** | UC_006 |
| **Description** | A user is able to view a final schedule of classes. |
| **Actors** | Camper, Instructor |
| **Organizational Benefits** | Allows organization to have less chaos by allowing users to know what their classes are before camp starts. Additionally, instructors can view schedules to help out campers. |
| **Frequency of Use** | It is used under the situation where a camper wants to view their classes or an instructor wants to view a camper's classes |
| **Triggers** | The user clicks the view class schedule button. |
| **Preconditions** | Classes are assigned to the camper |

| Postconditions | The class schedule for the necessary individual is viewed. |
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| Main Course | 1. User clicks "View class schedule" button.(see EX1)<br>2. System shows the user an individual schedule for the current camp term in a time tableview.<br>3. User clicks the course title link.(see AC1)<br>4. System directs the user to the course information(section, time, location) in detail.(see EX2) |
| Alternate Courses | AC1 User closes the window.<br>1. Return to Main Menu |
| Exceptions | EX1: Class Schedule is not available now.<br>1. System pops up a message "Class schedule not available".<br>2. System directs the user to "Main Menu".<br><br>EX2: Error occurs<br>1. System cannot retrieve data and notifies user<br>2. Returns user to main course step 1 |

| Name | Offer classes and time available |
|---|---|
| ID | UC_007 |
| Description | Instructors are able to offer classes reasonably |
| Actors | Instructors |
| Organizational Benefits | Students are given a reasonable class schedule, thus they can rank their class by their predilection. |
| Frequency of Use | Whenever instructors want to offer their class and time available. |
| Triggers | When instructors click "offer classes and time available" button |
| Preconditions | The instructor is able to offer this course for this camp. |
| Postconditions | The director can arrange the class sections according to the information offered by the instructor. |
| Main Course | 1. The user clicks the "offer classes and time available" button.<br>2. System prompts the user to fill the course number and time available.(see AC1)<br>3. User saves and submits the offering class form.(see EX1)<br>4. System stores the saved offering class form.(see EX2)<br>5. System redirects the user to their saved/submitted form to see the offering classes and time available. |
| Alternate Courses | AC1 User closes the offering class and time available window.<br>1. Pop up a window with "You didn't save yet. Leave now?".<br>2. User click "Leave". Return the user to "main menu".<br>3. User click "Cancel". Return the user to Main Course step 1. |
| Exceptions | EX1 System checks whether the class offering form is qualified or not. |

| | 1. Pop up a message "Format not qualified".<br>2. Return user to Main Course step 1.<br><br>EX2 System fails on saving ranking forms to list.<br>1. System notifies the user that an error has occurred.<br>2. Return user to Main Course step 1. |
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|---|---|
| **Name** | Print Classes |
| **ID** | UC_008 |
| **Description** | User clicks the Print button when viewing a list of classes. |
| **Actors** | Instructor |
| **Organizational Benefits** | Organization is able to obtain a paper copy of the current class list for use outside of the system. |
| **Frequency of Use** | Used whenever an instructor wishes to print a list of current classes. |
| **Triggers** | Clicking on the Print button when viewing the list of classes as an Instructor |
| **Preconditions** | The user is viewing the current class list. The user is logged in. |
| **Postconditions** | The user has printed the current class list. |
| **Main Course** | 1. The user clicks the Print button while viewing the classes.<br>2. A popup appears confirming the print properties (AC1)<br>3. System sends a signal to printer to print out the class list (EX1)<br>4. User logs out |
| **Alternate Courses** | AC1: User decides he/she does not want to print and cancels<br>1. The print screen closes and user is still viewing the page. |
| **Exceptions** | EX1: Printing error<br>1. System cannot print the class list and returns to main 1 |

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|---|---|
| **Name** | Manually add/remove classes |
| **ID** | UC_009 |
| **Description** | After instructors submit the classes they can offer and the time they are available, the camp directors can arrange the class time, location and schedule by adding class sections to the system. After campers finish choosing their courses, the director can add/remove classes according to the popularity of the courses. |
| **Actors** | Camp director |

| Organizational Benefits | By adding/ removing class sections, the classes will be available for campers to choose. And more requirements of campers can be met. |
|---|---|
| Frequency of Use | At the beginning, the user offers the class sections can be ranked. And whenever the user thinks the class has too few campers to attend or the class is very popular among the campers. |
| Triggers | The user clicks the "manually add/remove classes" button. |
| Preconditions | The instructors offer the classes they can teach. The system already runs to output the results of ranking form submitted by the campers, and then add or remove classes according to the results. |
| Postconditions | The class sections will be added to the system initially, so the campers can rank the classes. The class sections have small campers will be removed and the class sections popular will be added more sections. |
| Main Course | 1. The user clicks the "manually add/remove classes" button.<br>2. System lists all the class sections currently have. (see EX1)<br>3. The user clicks the "add" button.<br>4. System directs the user to a form to fill with the class information.<br>5. The user saves and submits the form.(see AC1)<br>6. System adds the class into the class lists.<br>7. The user clicks the "remove" button of specific class sections.<br>8. System removes the class section from the class lists. |
| Alternate Courses | AC1 User closes the "add class form" window.<br>1. Pop up a window with "You didn't save yet. Leave now?".<br>2. User click "Leave". Return the user to "main menu".<br>3. User click "Cancel". Return the user to Main Course step 1. |
| Exceptions | EX1 No class recorded in the system now.<br>1. System pops up a message "No classes".<br>2. System directs the user to the Main course step3. |

| Name | Run Class Assignment |
|---|---|
| ID | UC_011 |
| Description | User clicks the "Run" button to assign classes to all the campers based on an algorithm. |
| Actors | Director |
| Organizational Benefits | Through the use of an algorithm, camp directors can save time due to assigning classes being automated. This saved time can be allocated toward other administrative duties. |
| Frequency of Use | Used once every camp session. |
| Triggers | The user clicks the Run button. |
| Preconditions | The date is past the deadline for class selection. There are classes selected by students. |
| Postconditions | Classes are assigned to all users who submitted a class selection ranking. |
| Main Course | 1. System determines the user is not logged in (AC1/AC2)<br>2. User is logged in |

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|---|---|
| | 3. User clicks on the Run button (EX1/EX2)<br>4. Algorithm TBD.<br>5. System notifies user that the ranking is complete (AC2) |
| **Alternate Courses** | AC1: User is already logged in<br>    1. User is redirected to main course 2<br>AC2: User logs off again<br>    1. User is redirected to main course 1 |
| **Exceptions** | EX1: No classes to assign<br>    1. System notifies the user that there are no classes to assign to campers.<br>    2. User clicks on OK<br>EX2: Deadline not reached<br>    1. System notifies the user that the deadline has not passed yet and prompts the user if he/she wants to continue.<br>    2. If user selects Yes, return to main course 4.<br>    3. User clicks no and returns to main course 2.<br>EX3: Error occurs<br>    1. System notifies the user that an error has occurred<br>    2. Return to main course 2 |

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|---|---|
| **Name** | Manually add/remove camper to/from class |
| **ID** | UC_011 |
| **Description** | After running the program to assign the campers to sections, there will be some campers not added into class since the section is full. Then the directors can manually remove the campers from full sections and add the campers to the sections still have seats available with adaption of their ranking forms. |
| **Actors** | Camp Director |
| **Organizational Benefits** | Through the use of this function, all the campers can be arranged into camp to meet as many requirements of campers. |
| **Frequency of Use** | After running the program, this function will be implemented before the final deadline of camp classes enrollment. |
| **Triggers** | The user clicks the "Manually add/remove camper to/from class" button. |
| **Preconditions** | The system runs the program to assign the campers to sections. |
| **Postconditions** | The campers are arranged to sections reasonably. |
| **Main Course** | 1. The user clicks the "manually add/remove camper to/from class" button.<br>2. System lists all the class section enrollment conditions. (see EX1)<br>3. The user clicks the "add" button of specific section.<br>4. System directs the user to a form to fill the campers' IDs.(see EX2)<br>5. The user saves and submits the form.(see AC1)<br>6. System adds the campers into the database.<br>7. The user clicks the "remove" button of specific class sections.<br>8. System removes the camper from the camper lists. |
| **Alternate Courses** | AC1 User closes the "add camper form" window.<br>    1. Pop up a window with "You didn't save yet. Leave now?".<br>    2. User click "Leave". Return the user to "main menu". |

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|---|---|
| | 3.    User click "Cancel". Return the user to Main Course step 1. |
| **Exceptions** | EX1  No classes.<br>    1.    System notifies the user that there are no classes.<br>    2.    User clicks on OK<br>EX2 Camper not founded.<br>    1.    System notifies the user User not found.<br>    2.    System directs the user to the Main Course step1. |