

Name	submit class rankings
ID	UC_001
Description	Campers rank classes by preference order. Campers submit a rankings with at least 5 different kinds of courses to get enrolled in camp courses. Each course has different titles but does not contain time sections. No two classes can have the same ranking.
Actors	Campers
Organizational Benefits	This is a basic functionality of the system which can get campers enrolled in the class based on the class rankings they submitted.
Frequency of use	100% of the campers should use this functionality.
Triggers	The user selects an option to submit rankings.
Preconditions	Users are viewing the classes that they prefer. Classes are already created and exist in the system.
Postconditions	Users have their rankings submitted. Users' course rankings are stored in database for schedule builders.
Main course	<ol style="list-style-type: none"> 1.User logs in. (see AC1, AC2 and EX3) 2.User views classes. 3.User submits the final ranking. (see AC3, AC4 and EX2) 4.System verifies whether the rules have been met. If not, it gives error messages. (see EX1) 5.Class list is submitted and saved.
Alternate courses	<p>AC1.System identifies that the user logs in. 1.return to main course step 2</p> <p>AC2.System identifies that the user logs off. 1.return to main course step 1</p> <p>AC3.System identifies that user does not submit 5 classes. 1.return to main course step 2</p> <p>AC4.System identifies that the lists submitted by user have classes that have the same ranking. 1.return to main course step 2</p>
Exceptions	<p>EX1. The system fails to submit the class list.</p> <ol style="list-style-type: none"> 1.System notifies user that an error has occurred(less than 5 kinds

	<p>of courses or time conflict, etc).</p> <p>2.Return user to main course step 2.</p> <p>EX2. Then system fails to get users enrolled.</p> <p>1.System notifies user that the registration is not successful.</p> <p>2.Return user to main course step 1.</p> <p>EX3. Users log in failed</p> <p>1.Error typing password or username</p> <p>2.Return user to main course step 1.</p>
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Name	Create classes
ID	UC_002
Description	After confirming the course information, camp directors create classes whose information is stored in the system. Classes are to be taught by instructors and there can be sections with different times. Each class offering will need to be identified by the class and section.
Actors	Camp directors
Organizational Benefits	This is a basic functionality of the system which ensures that classes are created in the system.
Frequency of use	The camp director only need to enter each class's information once.
Triggers	The user selects an option to enter each class's information.
Preconditions	Registration is not open for campers. There are some courses that are not created.
Postconditions	New classes are created and stored in the system so that campers, instructors and directors could view them. Then campers could add courses to their rankings. Instructors and directors know the class details such as class title, class time and student list.
Main course	<p>1.User logs into the system. (see AC1, AC2 and EX1)</p> <p>2.User enters the class name, time, instructor's name, course capacity and description into system.</p> <p>3.User confirms the class schedule and submits it to the system. (see EX2)</p> <p>4.System notifies the user that the class's information is successfully submitted</p>

Alternate courses	AC1.System identifies that the user logs in. 1.return to main course step 2 AC2.System identifies that the user logs off. 1.return to main course step 1
Exceptions	EX1. User fails to log in. 1.Error typing password or username 2.Return to main course step 1. EX2.The system notifies that the course fails to be submitted. 1.System notifies user that an error has occurred (eg. the course has missing information or the course is invalid,etc.) 2.Return to main course step 2.

Name	Remove classes
ID	UC_003
Description	Camp directors could remove class offerings to adjust different curriculum situations.
Actors	Camp directors
Organizational Benefits	Resources can be fully used. It can help avoid wasting teaching resources and lean more resources towards more popular courses.
Frequency of use	50% of the directors need this function to balance course schedule by removing class offerings.
Triggers	There is an option for users to remove classes.
Preconditions	The class has already been created.
Postconditions	The class is successfully removed and is not to be taught.
Main course	1.User logs into the system. (see AC1, AC2 and EX1) 2.User enters the course ID. 3.User confirms the class is to be deleted and submits it to the system. (see EX2) 4.System notifies the user that the class is successfully removed
Alternate courses	AC1.System identifies that the user logs in. 1.return to main course step 2 AC2.System identifies that the user logs off.

	1.return to main course step 1
Exceptions	EX1. User fails to log in. 1.Error typing password or username 2.Return to main course step 1. EX2. The course ID is invalid. 1. Return to main course step 2.

Name	Enroll specific students
ID	UC_004
Description	Instructors and camp directors can manually enter the campers' information to the class roster after the software has been run.
Actors	Instructors, Camp directors
Organizational Benefits	This functionality enables late camp attendees to register for classes based on availability.
Frequency of use	10% of the students should use this functionality.
Triggers	Instructors and camp directors select an option to enter the information of a student.
Preconditions	The campers are late or unavailable for class registration. Instructors and camp directors get the requests from the campers.
Postconditions	The student is added to the class roster with information gathered.
Main course	1.User logs into the system. (see AC1, AC2 and EX4) 2.User enters the camper's ID to find the target student. (see EX3) 3.User assigns the camper with new classes. (see EX1 and EX2) 4.System notifies the user that the campers' class is successfully added and saved under campers' name.
Alternate courses	AC1.System identifies that the user logs in. 1.return to main course step 2 AC2.System identifies that the user logs off. 1.return to main course step 1
Exceptions	EX1. The class the camper submits has time conflicts with other courses. 1.Return to main course 3. EX2. The camper is already enrolled in the intended class.

	<p>1.Return to main course 3.</p> <p>EX3. The camper ID is invalid. (eg. student ID typo)</p> <p>1. Return to main course step 2.</p> <p>EX4. User fails to log in.</p> <p>1.Error typing password or username</p> <p>2.Return to main course step 1.</p>
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Name	Manual entry for deleting classes(???)
ID	UC_005
Description	After the software has been run, the deletion will be completed by hand by camp director.
Actors	Camp director
Organizational Benefits	This is a basic functionality of the system which enables classes to be removed after the software has been run.
Frequency of use	20% of the camp directors should use this functionality.
Triggers	Users select an option to delete the class from the course's schedule.
Preconditions	<p>Users have enrolled in this class and do not want to take it.</p> <p>The class registration closes.</p> <p>The class rankings have been locked.</p> <p>The software has been run.</p>
Postconditions	<p>The course is removed from users' course list and schedule.</p> <p>Instructors can receive the deleting information. The camper can be reassigned with a class by an administrator at any time.</p>
Main course	<p>1.Users log in. (see AC1,EX2)</p> <p>2.Users enter a specific person's ID.(see AC2,EX1)</p> <p>3.Users view a specific person's class schedule.</p> <p>4.Users select the class that a specific person wants to drop and click the delete button.</p> <p>5.System delete the class from a specific person successfully.</p>
Alternate courses	<p>AC1.User logs off.</p> <p>1.return to main course step 1.</p>

	AC2. User already logged on. 1.return to main course step 2.
Exceptions	EX1.The system fails to delete the course. 1.The system notifies the user that an error has occurred. 2.return to main course 2 EX2. Users fail to log in. 1.Error typing password or username 2.Return user to main course step 1.

Name	View campers' schedule
ID	UC_006
Description	The instructor/camp director can see campers' schedule online. Camper can see his/her own schedule online.
Actors	Instructors, camp directors, campers
Organizational Benefits	Instructors/camp directors can make a better preparation before the class begins. Campers can see the details of their classes. (eg. time block, the class enrolled in that block, the location of the class, etc.)
Frequency of use	100% of the users may use this functionality.
Triggers	Users select an option view a specific camper's schedule.
Preconditions	Campers are already enrolled. Campers have submitted their rankings. Class registration closes and the software has been run. The class rankings have been locked.
Postconditions	Instructors/camp directors can make a better preparation before the class begins. Campers can get familiar with their own schedules.
Main course	1.User logs into the system. (see AC1, AC2 and EX3) 2.User enters the camper's ID to find the target student.(see EX1) 3.User chooses to view the camper's schedule.(see EX2) 4.System shows the schedule of the camper.
Alternate courses	AC1.System identifies that the user logs in. 1.return to main course step 2 AC2.System identifies that the user logs off.

	1.return to main course step 1
Exceptions	<p>EX1.The student ID is invalid. (eg. student ID typo)</p> <p>1. Return to main course step 2.</p> <p>EX2. Campers fail to view their schedule.</p> <p>1.The director does not release schedule to campers/Ranking process has not been performed/ran.</p> <p>2.System shows failure to review inofrmations.</p> <p>3.Stays in user's profile page.</p> <p>EX3. User fails to log in.</p> <p>1.Error typing password or username</p> <p>2.Return to main course step 1.</p>

Name	View the online report of a class list
ID	UC_007
Description	Instructors can see the online report of their assigned class list, such as class title, class time, class location and enrolled students. Camp director can see the online report of all class lists.
Actors	Instructors, camp directors
Organizational Benefits	The instructors can know their assigned classes well. Camp directors can know all classes well.
Frequency of use	100% of the instructors and camp directors should use this functionality.
Triggers	Users select an option to see the online report.
Preconditions	Classes are already assigned to campers. Ranking process has been run. Class rankings have been locked.
Postconditions	Instructors have a more intuitive understanding of their assigned classes. Camp directors have know all classes well.
Main course	<p>1.User logs into the system. (see AC1, AC2 and EX2)</p> <p>2.User enters a specific course ID. (see EX1)</p> <p>3.User chooses to view the class information list</p> <p>4.System shows the corresponding information.</p>
Alternate courses	<p>AC1.System identifies that the user logs in.</p> <p>1.return to main course step 2</p>

	AC2.System identifies that the user logs off. 1.return to main course step 1
Exceptions	EX1.The course ID is invalid. (eg. course ID typo/class does not exist) 1.The system 2.Return to main course step 2. EX2. User fails to log in. 1.Error typing password or username 2.Return to main course step 1.

Name	Lock rankings
ID	UC_008
Description	The rankings are locked and can be modified with authorization only. Camp directors can manually enter the entries but are not allowed to rerun the system.
Actors	Camp directors
Organizational Benefits	The rankings are locked so that malicious modifications are prevented.
Frequency of use	1 time use. There will be one final ranking.
Triggers	There is an option for users to lock the rankings.
Preconditions	The registration date is due.
Postconditions	Rankings have been locked, no one could modify class rankings except camp directors.
Main course	1.User logs into the system. (see AC1, AC2 and EX2) 2.User chooses to lock the rankings.(see EX1) 3.System locks the rankings so that they cannot be modified without authorization.
Alternate courses	AC1.System identifies that the user logs in. 1.return to main course step 2 AC2.System identifies that the user logs off. 1.return to main course step 1

Exceptions	<p>EX1. System is processing someone's submission(May not need)</p> <ol style="list-style-type: none"> 1. wait for submitting process to finish 2. return to main course step 2 <p>EX2. User fails to log in.</p> <ol style="list-style-type: none"> 1.Error typing password or username 2.Return to main course step 1.
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Name	Set and modify course details
ID	UC_009
Description	Directors could set and modify course details for more accuracy. Such as course content, prerequisite and instructor information.
Actors	Camp directors
Organizational Benefits	Providing
Frequency of use	100%, this will be often used for updating courses.
Triggers	The user selects an option to modify extant course details or create information for new course.
Preconditions	Class is already created and stored in the system. There is a need to change course information.
Postconditions	Course information is updated.
Main course	<ol style="list-style-type: none"> 1.User logs into the system. (see AC1, AC2 and EX2) 2.User enters a specific course ID. (see EX1) 3.User browses and determines the appropriate information that needs to be changed. 4.User change the corresponding information and save(see AC3). 5.System shows the corresponding information.
Alternate courses	<p>AC1.System identifies that the user logs in.</p> <ol style="list-style-type: none"> 1.return to main course step 2 <p>AC2.System identifies that the user logs off.</p> <ol style="list-style-type: none"> 1.return to main course step 1 <p>AC3. The modified information does not meet system requirement.</p> <ol style="list-style-type: none"> 1.System notifies user that the modified information is invalid. 2.return to main course step 3

Exceptions	<p>EX1.The course ID is invalid. (eg. course ID typo/class does not exist)</p> <ol style="list-style-type: none"> 1.The system notices course ID invalid. 2.Return to main course step 2. <p>EX2. User fails to log in.</p> <ol style="list-style-type: none"> 1.Error typing password or username 2.Return to main course step 1.
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Name	System generates class schedule
ID	UC_010
Description	The system is run to generate the class schedule after class registration closes.
Actors	Camp directors
Organizational Benefits	The software can provide the class schedule for campers based on their submitted class rankings.
Frequency of use	This is one time use for camp directors.
Triggers	The user selects an option to run the software to generate the class schedule.
Preconditions	<p>The campers submit their class rankings.</p> <p>The class registration closes.</p> <p>The class ranking result is locked.</p>
Postconditions	<p>All campers can view their class schedule.</p> <p>Instructors and camper directors can view the class information lists.</p> <p>The instructors/camp directors need to enter the manual entry for adding/deleting the classes.</p>
Main course	<ol style="list-style-type: none"> 1.User logs into the system. (see AC1, AC2 and EX1) 2.User run the system. 3.Schedules and course information list are generated and posted to all students, instructors and camp directors. 4.System informs the user that the class generation is finished.
Alternate courses	<p>AC1.System identifies that the user logs in.</p> <ol style="list-style-type: none"> 1.return to main course step 2 <p>AC2.System identifies that the user logs off.</p>

	1.return to main course step 1
Exceptions	EX1.System fails to generate the class schedule. 1.return to main course step 4 EX2. Users fail to log in. 1.Error typing password or username 2.Return user to main course step 1.

Question: Is analyzing these things are the one of the users cases, or it is analyzed by people's mind? Do they want us to show all class from high to low or Generate a report? How do we define "analyze"?

- Administrators should be able to:
 - Analyze classes for enrollment (low/high)
 - Add or remove class offerings
 - Analyze student needs (empty blocks/duplicates/etc.)

N.ame	Analyze campers' needs
ID	UC_011
Description	Camp directors analyze whether campers submit the classes that have taken before and whether campers have empty blocks.
Actors	Camp directors
Organizational Benefits	This functionality enables empty blocks, duplicates and more needs of students to be analyzed, which help improve the performance of the system.
Frequency of use	50% of the camp directors should analyze student needs.
Triggers	??
Preconditions	There exist empty blocks, duplicates or other student needs.
Postconditions	Student needs are analyzed and corresponding methods are employed to satisfy those needs.
Main course	
Alternate courses	

Exceptions	
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Name	analyze classes for enrollment
ID	UC_012
Description	While one class has too many students than others, they can remove some students in this class to another class.
Actors	Camp directors
Organizational Benefits	
Frequency of use	
Triggers	
Preconditions	
Postconditions	
Main course	
Alternate courses	
Exceptions	