USE CASE TEMPLATE

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Name: Sign up.

Brief Description: The user creates an account so that he/she can use the service. He/she must to put in at the indicated areas his name, last name and e-mail

Actors: Student, Manager team.

Pre-conditions: To have an account e-mail because the user will get his password confirmation in this e-mail and he has to put in this password confirmation for create his account.

Basic Flow:

1. Enter to the link given by the Exam Manager Team.
2. The new user must type the data required in the indicated fields.
3. The User must press on the button create account and then will be send a confirmation password to the e-mail typed before in the required field .
4. Put in the true password that was sent to the e-mail registered before and then press on confirm.
5. If the user typed the right password the page redirects us to the login page, otherwise an alert is sent that the gotten password is wrong and the user will be forced to type the right password.

Exception flow: (5) In case of the user typed a wrong password, the system will regret the account creation and will send a message that the password is wrong.

Post-conditions: The account will be created and the system will redirect us to the login page.

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Name: Login.

Brief Description: The user enters the data in the indicated fields with the objective get in into the portal Voting System Blokchain and make a vote in order to change the scheduled Exam’s date. The user pass through an recognizing and authentication process where the system checks if the user that is trying to get in into the page is already registered or not. The authentication process checks if the person put in the true data or wrong in one of the fields.

Actors: Student, Manager team.

Pre-conditions: The actor must be a user registered already in the system (use case Sign up) and must know his/her username and current password .

Basic Flow:

1. The user Student/Manager enter the data asked by the system indicated in the fields.
2. The system makes the data authentication.
3. In the case the authentication pass so the page allows us to go to the portal Voting System Blockchain to make a vote.

Exception flow: In the case of the user didn’t put in the correct data in the required fields, the authentication step will not pass and as consequence, the access to the user will be denied. If this occurs the user will get a message.

Post-conditions: after the authentication, the user will be redirected to the Voting System Blockchain.

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Name: Voting System Zone.

Brief description: In this part if the user is student so the user makes a vote, otherwise the user is of type Manager and just will be able just read from the Blockchain System Vote.

Actors: Student, Manager.

Pre-conditions: Be already logged in in the page.

Basic Flow:

The Student User will be required to enter the next data for create his account profile:

* Scholar year
* Current semester
* Student faculty
* Student name
* Id student
* Id course
* E-mail
* Number phone

After to create the profile Student, the student has the possibility to issue a vote. To get this goal the student must enter the next data in the indicated fields:

* Name course
* Id course
* Teacher course
* Teaching day
* Teaching Group
* Course Exam Day
* Exam hour
* Moed Exam

This data is required to make the new exam date petition, that’s means that in the moment that the student wants to make the vote, has to check before the data put in and if exist an error the student allowed edit it. After the student issued the vote is not possible anymore re-edit the data, that’s why the student must be very careful and check the entered data before issuing the vote. If the student is ready to vote, must push the button VOTE.

The manager user will be required to enter the next data to create his profile:

* Id worker
* Name worker
* Role in college
* Type of Manager
* Email worker
* Phone worker

After to create his profile the manager user will be allowed to watch the results of the votes according to the id number course given by the students. The Manager will decide if its acceptable the students request or not. The Managers-exam’s answer will be given via email. The student will receive the answer in the email put in at the document profile that he/she created.

Exception flow:

* Student: If the Student doesn’t create or fill the profile he will not be able to issue a vote. If the Student doesn’t fill one of the indicated fields, will appear a message error.
* Manager: if the manager doesn’t create his profile, will not be able to read the voting data.

Post-conditions:

Student: Is created a Vote by the student and if all the information is correct so the Vote is issued and uploaded to the Blockchain.

Manager: One time the profile is done will be able to read the data from the Blockchain. After this according the obtained results the manager will send the decision taken via email to the relevant students that voted in the session (email will be the ones the student wrote at the profile creation).

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Name: Obtained results

Brief description: The Exam Section Manager will be able to get the voting results of one course according to the id number course, and then take a decision of the petition gave by the students.

Actors: Exam Section Manager

Pre-conditions: The students must have already done a vote. The manager must have already built the profile.

Basic flow:

* The student issue a vote in his profile.
* After the voting time is finished, the manager Exam Section get the final results obtained according to the id number course.
* The manager sends a response of the petition if it was accepted or not via mail to every student.

Exception flow: If the students didn’t issue a vote, will not appear any answer to the Manager Exam according to the id number course put in. If the Manager Exam didn’t create his profile, will not be able to get the students votes.

Post-conditions: send emails to the students about the taken decision.

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Name: Submit decision to the students.

Brief description: The decision taken by the manager Exam Section and Teaching committee will be sent to every student that voted to a specific course.

Actors: Manager Exam Section, Teaching Committee

Pre-conditions: Must exist a decision taken already.

Basic flow:

* The Exam Manager will get all the student’s emails that issued a vote for a specific Course.
* He can get the votes of a specific course by means of the id course or name course.
* When the decision is taken the manager will send the answer to the student’s e-mails gathered form the Blockchain.

Exception flow: In case that the Manager enter an id number course or a name course that no exist vote for it.

Post-conditions: The manager could see the votes for a specific course or well, could see a list of all the course that the students have voted before until now.

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Name: Maintenance BC System

Brief description: If there is an anomaly with the system, will be fixed here.

Actors: Maintenance Team.

Pre-conditions: Be part from the team Maintenance.

Basic flow:

* The team closes the system such as the users cannot access to the system temporarily.
* When exist an anomaly, the team will receive a message from students or from the management college.
* The team care of the problem and send a message saying that the problem is fixed to the management college.

Post-conditions: The system works again and the students can issues votes. The users can access to the system.