**MOOC System**

**Supervision Team**

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**Stackholders**

* Students
* Educational Organization

**System Requirement for Each Stackholder**

* + **Functional Requirement for students**
    - * 1. The system should allow the student to register by the username and its email.
        2. System shall ask the student to login.
        3. System should display to the student all the available fields.
        4. The system shall display to the student the available courses in the chosen field.
        5. System shall display the information of the chosen course in details.
        6. System should alert and send mail to the student’s email whenever any update in the courses he enrolls in.
        7. System should allow the student to search for courses by the university, topic or tutor.
        8. System shall the student to make feedback about the course by rating it after completion or write a review weekly.
        9. System should give the student activities and assignments to do on their own time to assure that learning is taking place.
        10. System should give certificates to the student if they attended the course and successful completion it.
* **Functional Requirement for Educational Organization**

1. The system should register by the educational organization name and information.
2. The system shall allow educational organization to upload courses and write details of each course such as (course name – course field – deadline for enrolling course).
3. The system should allow educational organization to upload assignments and exams for students who enrolled in the course.
4. System should view the feedbacks of the students who enrolled in his course to educational organization.
5. Every course provides a forum for communication between the user and the educational organization.

* **Non-Functional Requirement** 
  + - * 1. The system without limitations and with the possibility to modify and get new updates.
        2. System shall be highly secured.
        3. System must be tested to minimize errors and system become more stable.
        4. System should be high performance.
        5. System shouldn’t waste the storage space.
        6. A MOOC generates a large amount of information and it is necessary a large-enough and scalable storage system.
        7. The system must be easy to install, use and customize, and a user should not need advanced technical knowledge.
        8. The system must distinguish between registered and unregistered users.

**Similar systems**

* [**www.edx.org**](http://www.edx.org)
* [**www.coursera.org**](http://www.coursera.org)
* [**www.novoed.com**](http://www.novoed.com)
* [**www.ocw.mit.edu**](http://www.ocw.mit.edu)

**Main Functions used in the system**

* Register\_as\_student: take username, email and password for the student to make account in the system for this user.
* Register\_as\_ EducationalOrganization : take educational organization name and its details to make account in the system for this user.
* Login: ask the user about email and password to let him enter his account.
* Logout
* Display\_fields: after the user register the fields of courses available listed to him.
* Search: the user will able to search by university name, topic or tutor.
* Enrollments: listed the courses which the users enroll in.
* Enroll: allow user to enroll in course.
* Updates: alert for new upload assignments in the courses which the user enroll in.
* List\_courses: list of courses in each field.
* Course\_details: display all details of the course which the users search for.
* Review: send to the educational organization the reviews of students after their write it.
* Rate: function which allow the user to rate the course after completion it.
* Upload: Function that makes the educational organization upload new course and write all details about this course.
* Modification\_addition: function which allow the educational organization to add assignments, exams and modify the course.