



Cairo University - Faculty of Engineering  
Computer Engineering Department  
Advanced Programming Techniques



## Project Proposal

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## **Idea:**

Regarding the efforts of the government to use the technology in the education process, we decided that our web-portal will facilitate the organization of remote education by providing online classrooms similar to the traditional ones so that instructors can upload tasks, quizzes, lectures and communicate with the students and students have access to the course material at any time.

## **Users:**

- 1- Admin / Organization i.e school, university
- 2- Instructor
- 3- Student

## **Main Functionalities:**

### **1- admin (organisation i.e school, university)**

- 1.1- create a classroom assign key
- 1.2- assign instructor to a classroom
- 1.3- delete:
  - instructor
  - classroom
  - students
  - comments
  - posts

## **2- Instructor**

2.1- upload files (course material)

2.2- make quizzes

2.3- post:

- announcement
- comments

2.4- delete:

- files
- comments
- posts

2.5- rewards & penalties

2.6- see reports

## **3- Student:**

3.1- enroll in courses

3.2- access all data in courses enrolled-in

3.3- post comments

3.4- see reports

#### **4- common:**

##### 4.1- update profile

- password
- email
- username
- telephone number
- parent phone (for students)

##### 4.2- sign in

##### 4.3- sign up

##### 4.4- sign out

## **Technologies:**

### **Front-End:**

1- VueJS

2- Bulma / Buefy

### **Back-End:**

1- NodeJS

2- Express

3- MongoDB

4- PostMan