**FCI E-Campus**

Project Purpose & Overview:

When it comes to organizing their class schedule, lectures/sections/labs materials and upcoming assignments/exams, students here at Faculty of Computer and Information, Cairo University are in a terrible mess.

Students at FCI are scattered across many places. Some professors and TAs publish their announcements and materials on the faculty’s official website, others use a third-party website such as Acadox, and moreover some professors and TAs send the materials and announcements to a student who is supposed to deliver that to all the other students. Besides that, the faculty’s schedule is provided to students as just a plain document. Students lose track of assignments deliveries and quizzes that they have.

Moreover, the faculty doesn’t provide a forum where the students can ask and discuss about things relating to their courses or things that aren’t clear for them or they just don’t understand. Students have to use social network websites such as Facebook to communicate which is so distracting and it won’t be appropriate for professors and TAs to answer the questions and help the students.

So, after all of that students are scattered between the faculty’s website, Acadox, Facebook, GDrive, Dropbox, Mega, etc.… After all of that they can’t help being lost and unorganized.

**Our app** aims to help students stay organized by providing them with their schedule, depending on what year they’re in, their major, minor and the courses they have registered. The schedule will tell them what lectures/labs/sections they have and the location of these in the faculty lectures/sections halls and labs. If the student doesn’t know the location of his lecture or lab the app will help him and show him a map to where the lecture/section hall or lab is in the faculty. The Schedule will inform them if there’s any quizzes, exams or assignments delivery at a certain lab or lecture.

Also, students receive notifications for new announcements, upcoming quizzes and assignments deliveries to help them keep track with their courses. Students will also be notified regularly to remind them of their assignments, quizzes and exams and urge them to do their studies and work early before due date.

The app will organize downloading and uploading materials and will provide each course’s lectures, sections and labs with its materials that was uploaded.

That’s not it the app will provide a forum for the students to communicate with each other. Students can help each other and what will be better is that now it will be appropriate for professors and TAs to enter the forum and answer some of these questions. The forum will be categorized and organized according to course, topic, etc...

The app will contain many more features that will help FCI students in many aspects

App’s Main Functionalities Summary:

1. The app will allow each student, professor and TA to own an account and login with it.
2. A (weekly and monthly) Schedule with courses lectures, labs and sections each student has according to his year, major, minor and registered courses. With a powerful UI that will summarize what they have in each day including lectures, labs, sections as well as assignments due dates, tasks, quizzes, exams, special events, etc... with the option to expand a certain day and view the whole details of these stuff.
3. A (static) map of the faculty to guide students by showing its buildings and the location of each lecture/section hall and lab as well as professors’ offices and other useful places inside the faculty.
4. Allow students to download the materials of his lectures, sections and labs.
5. Allows professors and TAs (and possibly other chosen students) to upload materials and add useful links, audio files and videos.
6. Announcements Screen (Page or Activity) to inform students with any new announcements made by either the faculty, professors or TAs.
7. Q/A Forum (similar to stack overflow) to allow students to communicate, discuss on any topic, ask questions and make postings in an organized and managed way. Also we could provide a search feature for the student to search for specific questions without having to go through them all.
8. Notification system to notify students with new quizzes, new assignments, new announcements, new exams, etc... Also the notification system (can be thought of as an alarm here) warns students when their tasks due date approaches and urge them to start working.

***Extra Stuff:***

1. The app will allow users (professors, students or TAs) to send private messages to any other user. This is **not a chat service**. The messages will be similar to emails with a title, body & attachments. Then we will develop on top of that a Profanity and Spam Filtering System. This will filter the messages before they’re received to ensure it doesn’t contain any spam, curses, inappropriate words, sexual references, etc… If a message is detected as spam, it’ll not be received and the user who sent it will be reported and warned.
2. If an assignment or task will be delivered online. Our application will allow the students to upload their assignments solutions or tasks. The concerned professors and TAs will receive these solutions and check them out and put the grade for each student on our application.
3. The app will have a history for each course which contains the course materials from previous years. Users can view and download the materials for this course for a user-specified previous year.

Tools to be used in building the app:

1. The app frontend clients will be an **Android** app (and possibly a website especially an Admin website).

Tools: Android Studio IDE

1. The app backend will be built using **PHP Laravel** with **MySQL** database. The backend will be built using Service Oriented Architecture (SOA) providing RESTful web services to be used in the front-end clients.

Tools: PhpStorm IDE, Laragon, MySQL workbench, XAMPP, …

The app will be inspired from existing apps such as <http://istudentpro.com/> , <https://play.google.com/store/apps/details?id=com.istudiezteam.istudiezpro>, <https://play.google.com/store/apps/details?id=com.virblue.mystudylife>, <https://play.google.com/store/apps/details?id=daldev.android.gradehelper>