ORANGE TRAINING

Nerds Academy - Final Project

Done By: Ahmad Taha
Date: 9 - JAN - 2020

TABLE OF CONTENTS

Introduction

Jordan has a variety of institutions for learning and many other universities, which includes many faculties and schools providing study plans and variety of majors for each school. While students are supposed to be learning, do projects, get to the market labor and enjoy their university experience, it appears that for many universities, the university systems doesn't allow the students to learn from what they study, through putting a heavy load on their shoulders without any help provided. Studying from a book of course is a must, but for many professors, they don't even give the information that are provided in the textbook, or the textbook itself is so much generic and doesn't allow students to learn much from. Especially for those students who have to concentrate on reading for a long period of time, and they either prefer listening or reading small statements that are illustrative and clear without verbiage. Still, a lot of bright students fail some courses because they are unable to understand it well, and they wouldn't be able to reach for the correct information they need. Thus it is required to find a solution to make university students more productive and fulfill the main reason for their university degree, and prepare them better for the correct career path after their graduation, we've got to work on this project, a lifetime one!

The project in words

- **What is Nerds Academy?**

  From the word "NERD", the name describes itself. It is the very first innovative educational platform made to serve university students who are willing to study their courses and get the correct information that are comprehensive and satisfying, as well as being described in the best possible way for the sake of being memorized easily. It includes most of the majors that are provided in Jordanian universities with a lot of different resources, textbox, notebooks, past exams and many other works to help them like all sources in one place.

- **Where the idea came from?**

  We found a huge problem related to university students, where they have an obstacle of the lack of resources that are enough and satisfying to learn from, for the courses they are taking, such as; study materials, related documents, summaries, worksheets, tutorials and past papers that helps them investigate the type of problems they need to solve and will be challenged by during any exam. Someone might say, there are already existing materials on social media and other places or websites, but I till you, no it's not. Why? Because it's not easy to get to an old published material on somewhere on social media, using filters is also no helpful since these materials might be hidden inside archived groups or old pages. Otherwise, there is no Jordanian website provides that amount of information about a specific subject or course as much as we do. As well as the tutorials that helps students a lot to set their career path and start something in their life more than just studying for an exam. This will be discussed in details in the following report.

- **What do we provide?**

  We serve the students in such away to provide them with the best resources from different universities and institutions and for most of the majors. We have resources

such as; study materials, related documents, summaries, worksheets, tutorials, textbooks, notebooks and past papers, and that for each specialization there is a collection of resources for the courses that are required for this specialization. It is also neat and sorted to be able to search for easily. A student can also learn from the courses that we provide outside his specialization to prepare himself for his career path and future studies and research papers, we will get to mention them in details in the following section. There is also a special feature where you can reserve a private coaching from an expert in some field of the studies that you need to work on, such feature is very important for many student, and also for us, since it can be turned to be as a small business we have to keep the website and the services going properly and appropriately for our students.

- **Why we are special?**

   Our services are provided for all University students (especially in Jordan) totally for free. You do not need to pay for getting what you're looking for. Students can both benefit from the services as well as support others by uploading documents they now it is helpful for their colleagues. Our platform can be a square for study groups gathering and learning, building, sharing and make creative thoughts. One thing is that for those who need additional help and private coaching with an expert, they need to pay for this expert and we take a ratio of the profits to keep our servers work and compatible with our students' needs.

The website

Our website has an extremely interesting features and views. It can be easily used by anyone and get to the information you are looking for without any efforts.

Main Page

The main page of our website first includes our logo and name, as well as the subjects, languages and home options as a white header, then the main theme in the background that has books which is illustrative for what we do. It has a nice statement that might make anyone read it smiles and gain confidence, that says "THE SKY IS THE LIMIT". Then , we have 3 special features that our website provides; Private coaching, general tutorials and study groups. With scrolling down, you will notice a section of sliding pictures for some jordanian universities that many students enroll in, that well help our students; especially in high school; to look easier for a university and its website or news to have enough information about it and compare it with others. The last section includes the latest news in technology and careers or new papers or researches that benefit the student to read or know about, such as Quantum Computing and NanoTechnology. The footer includes our intellectual property rights.

Till now, we provide two languages, arabic, and english. This helps our students a lot, if they were foreigners they can read english and otherwise if they have weak english, they can go with arabic. We hope once our website gets wider and for many students; inside and outside Jordan; to add more languages that are commonly used.

Subjects

The subjects page include two types of services, High school subjects and University courses. Each one includes courses or topics that mostly fits in a specific grade or year.

- **High school topics and courses**

    This one includes the topics that are related to "Tawjihi" and other grades that high school students will use to study and prepare specifically for their exams, including the national and international courses and exams preparations, such as; SAT, IMO, GRE and others.

    Since "Tawjihi" is a critical time for most of the students, and study is a high priority for them, we have decided to collect sufficient resources for them to help them get high marks and average at the end of the year.

- **University topics and courses**

    This part of the website is basically the main one, we have for each faculty or school a group of specialization, each specialization includes the courses that are related to it. For example, we have; Information Technology, Engineering, Basic Science, Medical sciences..etc. For the Information Technology, we have; Software Engineering, Computer Science, Data Science..etc. While for Engineering, we have; Electrical Engineering, Computer Engineering, Civil Engineering...etc. Then, take for example, Computer Engineering, it includes courses of; Computer design, Microprocessors, Embedded Systems..etc, and so on. Once you find your destination and you are on the course you wish to study, you will find a collection of resources mentioned above, you can find past papers from different universities as well as real projects conducted from previous students who took this course.

Tutorials

In this section, we will have extra-curricular Tutorials in many different topics that are much more related to the labor market requirements, where the students start preparing for their career path. It includes courses such as E-Marketing ,Entrepreneurship ,ICDL ,Artificial intelligence,..etc. The students can view the lectures as well as other parts like projects and other contents to provide them with the best possible type of learning. The platform for these tutorials is really nice so that students will be encouraged to learn more without feeling board.

Private Coaching

Private Coaching is a very smart idea that can be described as a small business, where an expert advertise himself on the website and the courses he is specialized at. Once a student reserve a coaching class, and attends it, he needs to pay a small amount of fees for the coach, and the coach in return will pay a ratio of it for the advertisement.

Study Groups

It is an intended future work, where a student opens a chat room about specific topic or course, probably to ask some questions, and other students on the website join this conversation to either help or ask more. One student can join as many conversations as he wants. This would be a great feature for students who ask for an immediate help and can't find answers any where to their questions. They can

also work together to prepare for a project or exam, in such a way that the conversation might be private for only some specific users.

Technical Part

Used programming languages

Laravel 5.7 , php   -> it's easy framework supports MVC

MySql   -> as it's a relational database management system

BootStrap -> it's CSS framework responsive on different size screen

JavaScript -> I used Editor Package (CKEditor Package)

CKEditor Package

Which is an open source editor, which core code is written in javascript. it's very fast and doesn't require any kind of installation on the client computer. It's special because it has a nice interface , serve the website members to add style to their writing , so you can underline , bold and align your paragraph,as add some links
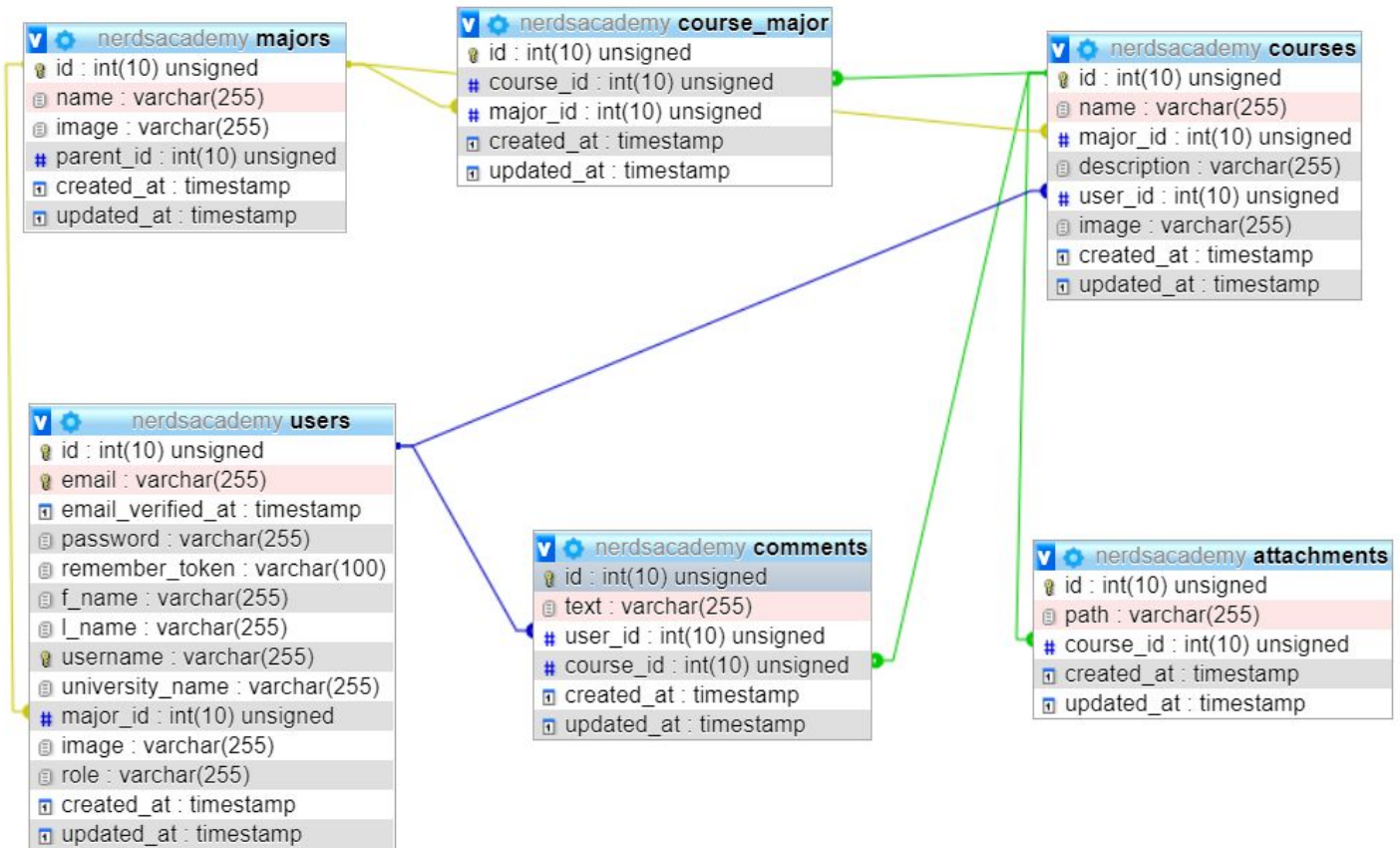
Database & Table-Relations

Figure 1: Database relational schema

- In the project we have 6 main tables is shown in the figure above
- The majors table has the list of faculties like Engineering , Information Technology , Basic Science & Medical Science and every faculty well have their majors like for engineering it contain Civil Engineering , Electrical Engineering , Communication Engineering ,Computer Engineering ,Mechatronics ,Mechanical ,and Architectural Engineering major .
- The courses table have the major books and subjects
- The users table represents the website members or (students which register)
- The comments table have the comments about course and articles
- The attachments table have uploaded materials

References

https://joacademy.com/

https://www.edraak.org/

https://github.com/UniSharp/laravel-ckeditor

https://laravel.com/docs/5.7

https://getbootstrap.com/docs/4.4