Lebanese University
Faculty of Sciences 1

I3302 F+E

Server side web development

Project
2021-2022
Duration: 45 days
Dr. Mohamad Hamze
Dr. Ali Ghorayeb

Project Title: CMS for Restaurants

Subject:

The goal of this project is to build a CMS for Restaurants. We know all what kind of information we could find on a Restaurant Website but maybe we have never thought about the backend!

We should display menus, and the list of items for each menu and for sure the price. Details about the item (plate, sandwich, Jus) should be displayed too.

Typical example of a restaurant website: **https://www.zueribistro.ch/**

We should have the possibility to create a new menu and a new item in any menu. The price of any item can be modified at any time. We can make offers for special items with an "Offer Description" including the "Offer Price". Each price can have a separate currency ($, L.L., €, …), or you can fix a currency for all prices, and modify it for special cases. We can attach a photos or multiple photos for each item.

We have a page for reservations. A client can make a reservation for a number of guests, and we must have a limit number of clients at the same time (this value can be modified any time).

We have a page for feedbacks. So a client can leave a feedback, and at the same time he can rate any item, or rating his visit. A report must be displayed about the feedbacks (normal rating report, top 10 items, top 5 clients, …).

At the home page we can put any new offer, or new item, or new event, …

An "about me" page must include information about the restaurant, the address and why not a map location. All data on the website must be dynamic (using of database).

We have a super administrator, and he can create multiple administrator to manage the website as editors or moderators.

Guidelines:

1. Your project will be marked according to the technical choices you will make, the technical quality of the product code, its respect for the subject, the ergonomics of your site and its general appearance. The additional features you implement will also be accounted for.
2. The handing over of the project to the instructors implies the complete handing over of the code (HTML, PHP, Database, ...). You will also include a minimum 10-pages report explaining the general operation of the project (using the Template).
3. Your project can be designed with the framework **Laravel** using HTML5, PHP and MySQL (using prepared statement with MySQLi). You can use style sheets (CSS), frames, cookies, ajax, jQuery ... However, for those who would like to use it, limit the use of Javascript (including ajax and jQuery) to simple functions and Not essential to the functioning of the project.

4. On the other hand, you are strongly advised to validate your website (and your style sheet (s)) using the tools offered by the W3C (http://www.wc.org). This validation will verify that the HTML of your pages conforms to the HTML standard.
5. This website may be installed on any server supporting PHP/Mysql technology. This will facilitate the evaluation of the site.
6. External resources: Students must work in pairs. Pairs can collaborate. Internet resources can be used. The aim is to master the submitted project. It is not prohibited, on the contrary, it is advisable to consult and use the solutions available on the web to this type of problem.
7. The project is over 25: Code 15pts, Appearance 2 pts, Report 3 pts and 5 points for extra features (for example the possibility to make an order online for delivery, the client can pay on delivery).

Deliverables:

The deadline for filing projects is during 45 days (the exact date will be shared soon). The day of presentation, each group will send their project by email (code+report+exported database) as a compressed file or uploaded on cloud with a shared link, but a copy of the report written in MS Word must be sent by mail. A template will be provided.

The report should be short and useful. Consider putting information that draws the attention of the corrector to the work you are proud of. Think of taking advantage of it to raise your score. Put serious information on it, not filling it. Give a good impression.

Your report must also include a schema of your database, realized with software, such as MySQLWorkbench.

Review:

Each student will present a project exam by his own on his own laptop (Zoom meeting). The student has 10 min to prove his capacity in the project delivered. In the exam, you will be asked to perform a particular task, for example, add an option to your application, change something. The purpose of the exam is to verify your mastery of your project. Each student is expected to know all the details of their project. You have to work on your own laptop.

The project note will essentially depend on the exam test score. A poor grade on the examination suggests that the student in question is not the author of his own project, and deserves a zero on the total score of the project (zero out of 25).

References:

Laravel tutorial: https://www.youtube.com/watch?v=ImtZ5yENzgE