Project

Bases de dados/Bases de dados e analise de
informação
Department of Informatics Engineering

Objectives

- After learning how to develop an app in django in lab classes, experiment with developing your own web app

Group=2 students

Final Delivery

- You must submit your project in a zip file using Inforestudante. Do not forget to associate your work colleague during the submission process.
- The submission contents are:
    o Source code of the requested applications ready to compile and execute.
    o Report, must include screens, step by step code explanation, ER and physical diagram, and requirements specification (i.e. mockups, requirements and, optionally, use cases).

The REPORT is expected to be complete in the sense that it needs to contain all necessary and sufficient information for the teacher to give the score to the evaluation item, even without having to run the code itself and without having to meet with the group in person for evaluation. For that you can include descriptions, screenshots, code extracts, whatever is needed for a complete and thorough evaluation. If the report is absent the score is 0, and if it is incomplete the score is significantly affected. This is to make sure you do have a complete report.

Before the main body, the REPORT starts with the complete identification of the students and group, then a table of contents, then the following:
  a. Lists of what the group succeeded to do and what is missing
  b. self-evaluation of the group (0-100%)
  c. List of what each student contributed (no repetitions)
  d. self-evaluation of each student in the group (0-100%)
  e. hours of effort by each student separately

These items a,b,c are important for the teacher to check whether his evaluation coincides more or less with what the group and student thinks.

Grading

- REPORT (confirmed later by defense)
    o Overall quality of the data model;
    o Quality of the code (organization, modularity, formatting, code conventions, etc.);
    o Overall quality of the requirements specification
    o Final defense/presentation of the work.

Resources

- Django
- Python

- Postgres

Project Description

In this project, you will be developing a part of a web app using Django. The database will have to be postgres and you will need to choose your own context and corresponding ER diagram to start with.

Web app requirements:
1. Tem de ter pelo menos 5 entidades relacionadas entre si (não incluindo tabelas de ligação).
2. Tem de ter o diagrama ER e o diagrama físico.
3. Ter os mesmos elementos que tem a aplicação Guitars, incluindo mas não só:
   o Criar o seu modelo no models.py correctamente
   o Views e templates django para mostrar os elementos inseridos em cada entidade.
   o Permitir adicionar novos elementos às entidades usando o admin do django para tal.
   o Ter página index do django com links para cada entidade indicando o numero de elementos da tabela respectiva.
   o Os restantes elementos que vê em Guitars

Pretende-se também acomodar duas hipóteses, para servir quer alunos que apenas pretendem aprender o básico de desenvolvimento como também alunos que queiram ir mais longe na aprendizagem autonoma. Essa opção 2 será:

Opção 2. Quero desenvolver mais a aplicação, incluindo inserções através de outras views django, formulário de pesquisa por parte do nome, html e css mais evoluído para toolbars. Assim poderá conseguir um extra y de 0 a 2 valores no projecto, caso em que o exame será cotado para 15-y (ver os valores na informação geral da cadeira).