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Laboratorio de IPC2

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Technical Manual Project 2

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Introduction

In the following document we can see how the program developed for the course of the Laboratory of Introduction to Programming and Computing 2 works, for Project number 2, which in this case its purpose is to provide a solution to a project in which the company MyMusicYourMusic is developing a tool that is capable of storing and reproducing the music that the client wants, to listen to it online and with it, optionally, have two types of CDs made. The compact ones or the vinyl ones if the client so wishes. However, for reasons of the December holidays, this company has been in great demand with other companies that want to give their employees a gift for these dates. So they have decided to choose to use a platform to handle all the orders they make. And we will take care of developing said platform.

Operating Requirements

Python

Python is a high-level, general-purpose programming language. his philosophy Design emphasizes code readability with the use of significant indentation. python it is dynamically typed and garbage collected.

For this program we will have to install as a function requirement the programming language Python because in this language all our code.

Flask

Flask is a minimalist framework written in Python that allows you to build web applications quickly and with a minimum number of lines of code. It is based on the Werkzeug WSGI specification and the Jinja2 template engine and is licensed under a BSD license.

In this case, our API is based on Flask, so in order to run the server that will be in charge of the entire section of our backend, we must have Flask installed on our computer.

Django

Django is an open source web development framework, written in Python, that follows the design pattern known as model-view-controller (MVC). It was originally developed to manage news-oriented web pages for the World Company of Lawrence, Kansas, and was released to the public under a BSD license in July 2005; the framework was named after gypsy jazz guitarist Django Reinhardt.

In this case, our project was created with Django, and with it we can run the server that stores all the content of our Frontend.

How to install Python

To install Python 3.7 & pip (Windows)

- Download the Python 3.7 executable installer for Windows x86-64 from the Python.org download page.
- Run the installer.
- Choose Add Python 3.7 to PATH.
- Select Install Now.
- The installer installs Python in your user folder and adds its executable file directories to your user path.

How to install Flask

- Open the terminal, and run it as administrator.
- Write the command “pip install”.
- And followed by writing the name of the package that we want to install, which is “flask”.
- Finally type, “pip install flask” and press the Enter key.

How to install Django

- Open the terminal, and run it as administrator.
- Write the command “pip install”.
- And followed by writing the name of the package that we want to install, which is “django”.
- Finally type, “pip install django” and press the Enter key.

Annexes

Class diagram