

Deliverable 1

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The deploying we have used is Heroku. By using a Procfile with Gunicorn and a requirements.txt file, we can push our changes to Heroku, which will automatically deploy our Django project on web-project-galajat-2021.herokuapp.com. To develop this deliverable, the work has been divided into two branches: the development branch and the deployment branch. The first was designed to programming the website and testing to later on implement the “working” changes to *main*. The deployment branch aimed to deploy the Django project with Heroku (as it has been already mentioned) and perform more tests.

Once the diagram was done, its visualization was performed in order to define its models. These are:

* The **user**, whose most important attributes are its identifier and username. It should be noted that the ids of each user will be present in all of the models, with a maximum length of 22 (maximum length for all ids) and 50 characters respectively for its username.
* The user's **favourite artist** in particular, which will contain the artist\_id, it’s position and the term (which references the most listened song and favourite artist based on the user’s activity). Note that the latter two attributes will be shared by other models such as those mentioned next.
* The **favourite musical genre** which consists of the name of the genre among other attributes mentioned previously.
* **Favourite song**, which consists of its id, again in addition to those shared attributes mentioned above.

A relevant feature of the models is that in addition to sharing the user ID, they will also share two more attributes, which are "created" and "updated" which will store the creation and editing dates respectively.

All models created in the models.py class are imported into the admin.py file and are registered on the admin site.

The views.py file is the script that reveals the links of which the website is composed of. Inside of the document we have the URLs of: main, shop, dashboard, and register. Within the directory 'webspoty' we find the file dashboard.html which implements the changing of passwords, more specifically the redirection of the user. The index.html file contains the links for the login and register buttons. In the 'registration' directory are the login html files, logout, password\_change\_done, password\_change\_form. These elements, as it can be read by their name, allow the identification, registration and modification of user’s information on the web.

Within the WebProjectSpotify directory we find the asgi.py file which is a file that defines our application path. The following file, called settings.py, is the central configuration of all Django-type projects which has been modified to effectively run the Django application, provide end-users with a streamlined experience and keep potential attackers under control. The urls.py file is used to update URLs throughout the project.

Finally, we find the file wsgi.py which is the main deployment platform of Django and also is the Python standard for servers and web applications.