TECHNICAL MANUAL

DIANA ESTEFANIA
BERDUCIDO DOMINGO

202000277

AUX. JACKELINE BENITEZ

ENGLISH





By creating objects, the information for each XML was stored.



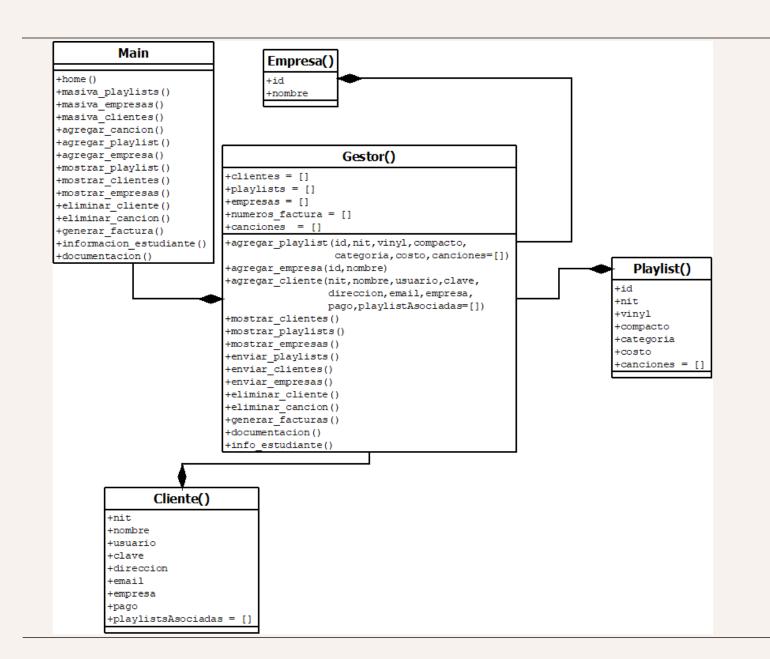
Customer, playlist, and enterprise objects were created.



For the API it is recommended to start with the creation of playlists and companies, because the client carries information about each one.

OBJECTIVE OF THE PROGRAM

- An API was created, it behaves in different ways. The REST API aims to receive requests such
 as: GET, DELETE, POST.
- From the beginning, three XML files are received that have the objective of collecting
 information related to playlists, companies and customers. Initially it joins all the information
 to later act depending on the request that is executed.
- You can add more customers, playlists, and businesses using XML-long files. You can review what's stored in the system and even delete a client or song from a playlist.
- If necessary, help information, such as student data and program documentation, can be reviewed.





GESTOR.PY

 In this class all the methods that would be responsible for saving information and displaying it, also deleting it were created.

```
class Gestor:
    def __init__(self):
        self.clientes = []
        self.playlists = []
        self.empresas = []
        self.canciones = []
        self.numeros_factura = []
```

```
def agregar_cancion(self, id, nombre, anio, artista, genero):
def agregar playlist(self, id, nit, vinyl, compacto, categoria
def agregar_empresa(self, id, nombre): ...
def agregar_cliente(self, nit, nombre, usuario, clave, direcc
def mostrar_clientes(self): ...
def mostrar_empresas(self): ...
def mostrar_playlists(self): ...
def enviar_playlists(self): ...
def enviar clientes(self): ...
def enviar_empresas(self): ...
def eliminar_cliente(self, nit): ...
```

MAIN.PY (API FLASK)

 After importing the necessary libraries, the home() path was created to verify proper operation (installation).

```
> from flask import Flask, request...

app = Flask(__name__)
app.config["DEBUG"] = True
CORS(app)

gestor = Gestor()

@app.route('/')
def home():
    return "Bienvenido a la API de la tienda
```

```
@app.route('/agregarPlaylists', methods=['POST'])
> def agregar playlist(): ...
 @app.route('/agregarEmpresa', methods=['POST'])
> def agregar empresa(): ...
 @app.route('/mostrarPlaylists', methods=['GET'])
> def mostrar playlist(): ...
 @app.route('/mostrarClientes', methods=['GET'])
> def mostrar clientes(): ...
 @app.route('/mostrarEmpresas', methods=['GET'])
 def mostrar empresas(): ...
 @app.route('/eliminarCliente', methods = ['DELETE'])
> def eliminar cliente(): ...
 @app.route('/eliminarCancion', methods = ['DELETE'])
 def eliminar_cancion(): ...
```

```
class Cliente:
   playlistsAsociadas = []

def __init__(self, nit, nombre, usuario, clave, direccion, email, empresa, pago, playlistsAsociadas = []):
        self.nit = nit
        self.nombre = nombre
        self.usuario = usuario
        self.clave = clave
        self.direccion = direccion
        self.email = email
        self.empresa = empresa
        self.playlistsAsociadas = playlistsAsociadas
        self.pago = pago
```



 This is the class responsible for creating the client object. Which receives nit, username, password (password), customer name, company ID, address, email, payment and associated playlists.

```
class Playlist:
    canciones = []

def __init__(self, id, nit, vinyl, compacto, categoria, costo, canciones = []):
    self.id = id
    self.nit = nit
    self.vinyl = vinyl
    self.compacto = compacto
    self.categoria = categoria
    self.canciones = canciones
    self.costo = costo
```



 This is the class responsible for creating the playlist object. Which receives id, nit, vinyl, compact, category, cost and a list of songs. It intends to connect through ids and nits that are associated with the client.

```
class Empresa:
    def __init__(self, id, nombre):
        self.id = id
        self.nombre = nombre

def __str__(self):
        return f"{self.id} - {self.nombre}"
```



 This is the class responsible for creating the Enterprise object. Which receives id and name of the company.
 Each client goes through their elements and they associate with the company. This partnership is mostly important in invoice generation and reporting.