

CS-GY 6083 Spring 2024 Project

Project Description

The project is to build an application that interfaces with a database to store and retrieve data. The application will be a simple command line interface that will allow the user to Create, Read, Update and Delete (CRUD) data. The data will be stored in a database and the application will use SQL to interact with the database.

Project Requirements

The project will construct a database with a minimum of 7 tables. The tables will be related to each other in a way that makes sense for the data. The application will allow the user to interact with the database by adding, retrieving, updating and deleting data. The application will also allow the user to query the database for specific data.

Project Details

For this project I will construct a database using MySQL to store information about record album: the name of the album, the recording date, the artists behind the album (bands), the members of the recording group, the record label which produced the album, genre and sales information. This will utilize a 2-tier architecture using Python as the primary Language.

I will construct business object classes to represent the data in Python using data classes. These classes will call on a database utility class to connect and interact with the database. Lastly I will construct a series of UI classes to perform Create, Read, Update and Delete operations on one of the tables.

Database Schema

Entity Relationship Diagram

