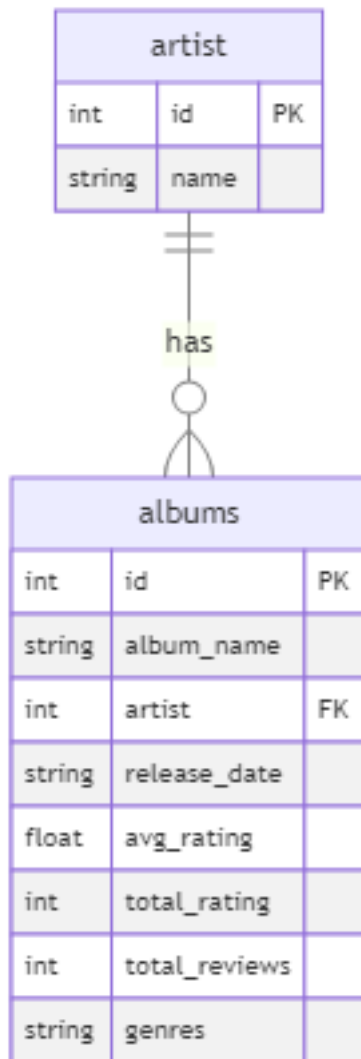


Artist - Album list application

- this application shows the list of all the artists available in our database.
- then you can see the list of all the songs and their details into the page next to it by clicking on the link

Design -

1. system has two tables - artist and album
2. album is dependent on artist



ER Diagram

Development -

1. Used python to read the data from csv file and then write it into sqite3 database
2. Flask framework is used to make visual represtation and backend
3. There are total 2 endpoints in the system
 - / to get the list of all the available artists in our system.
 - /show/<id> to show the list of albums available for that artist
4. there the templates that are used by these endpoints
5. Working directory structure

```
|— data
|   |— albums_csv.csv
|— templates
|   |— index.html
|   |— show.html
|— parse_csv.py
|— app.py
|— songs.db
|— requirements.txt
```

Implementation

1. artist tables holds the name of each artists name in a seperate table
2. album tables has an attribute of INTEGER type named artist which hold the id of corresponding artist present into artist table
3. In / endpoint we show the list of all the artists

Artists

Name: [Radiohead](#) |

Name: [Pink Floyd](#) |

Name: [Kings Crimson](#) |

Name: [My Bloody Valentine](#) |

Name: [Kendrick Lamar](#) |

Name: [The Beatles](#) |

Name: [The Velvet Underground](#) |

Name: [David Bowie](#) |

Name: [Talking Heads](#) |

Name: [Mingus](#) |

Name: [Madvillain](#) |

Name: [John Coltrane](#) |

Name: [Black Sabbath](#) |

Name: [Miles Davis](#) |

Name: [The Beach Boys](#) |

Name: [Neutral Milk Hotel](#) |

Name: [Nas](#) |

Name: [Godspeed You Black Emperor!](#) |

Name: [Wu-Tang Clan](#) |

Name: [Nick Drake](#) |

Name: [Slint](#) |

4. click

on the name of artist to show the list of albums from that artist and other details.

Songs by - Wu-Tang Clan

Song: **Lift Yr. Skinny Fists Like Antennas to Heaven!** | 19 | 09-Oct-00 | 4.17 | 33031 | 590 | Post-Rock

Song: **Sgt. Pepper's Lonely Hearts Club Band** | 19 | 01-Jun-67 | 4.13 | 41475 | 844 | Psychedelic Pop, Pop Rock

image

5. If any artist have no albums then it shows bellow output.

Songs by - Radiohead

No Songs by this artist in our collection

image

Installation

1. Clone the repository
2. install flask

```
pip install flask
```
3. move to the root directory of the project
4. run `parse_csv.py` file

```
python ./parse_csv.py
```

it will take some time to load the data into the database.

5. then run the flask application

```
flask run
```

The Render Deployment URL: <https://songs-r1yx.onrender.com/>