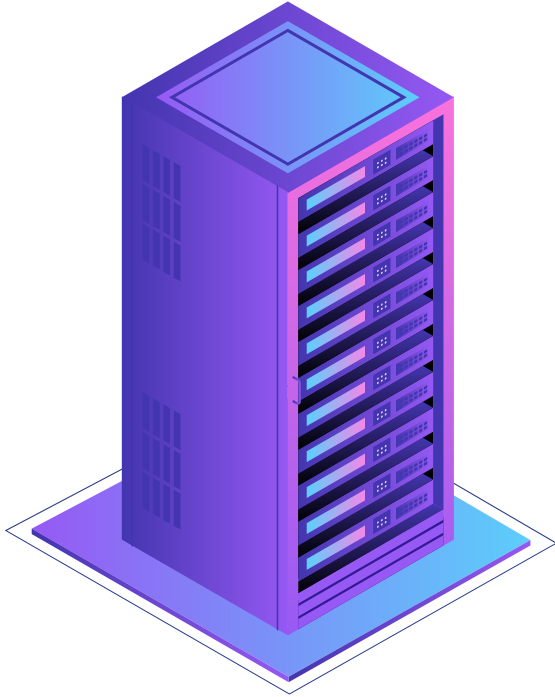


# Oblivion Sound

Computer Engineering Course  
DataBases Class





## Project Description

Our goal is to make a complete and functional database for an hypothetical application named *Oblivion Sound*, for the time we have designed a visual entity-relationship diagram and its attributes. We will be using SQL as the programming language for the creation of the actual database, where we will manage the data of a music streaming service implementing the needed functionalities for it to be usable and secure.

## Our Team



```
graph TD; A[Our Team] --- B[André]; A --- C[Joás]; A --- D[Filipe];
```



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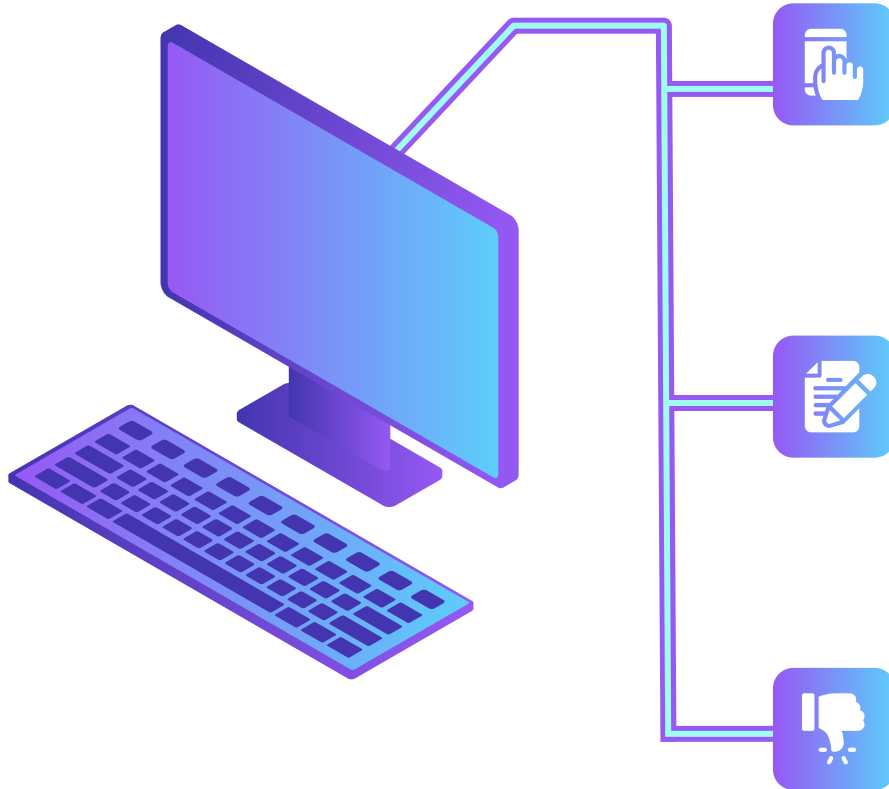
[filiperodrigues@student.dei.uc.pt](mailto:filiperodrigues@student.dei.uc.pt)

[pt](#)

Student Number:

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# Data migration process infographics



## Insert

Examples of data to insert:

- Artist and Consumer Accounts;
- Songs and Albums;
- Playlists;
- Pre-Paid Cards;
- Comments;

## Update

Examples of data to update:

- Artist and Consumer Accounts;
- Playlist visibility, name and songs;
- Pre-Paid Cards;
- Consumer Subscription;

## Delete

Examples of data to insert:

- Artist and Consumer Accounts;
- Songs, Albums and Playlists;
- Pre-Paid Cards;

# Transactions

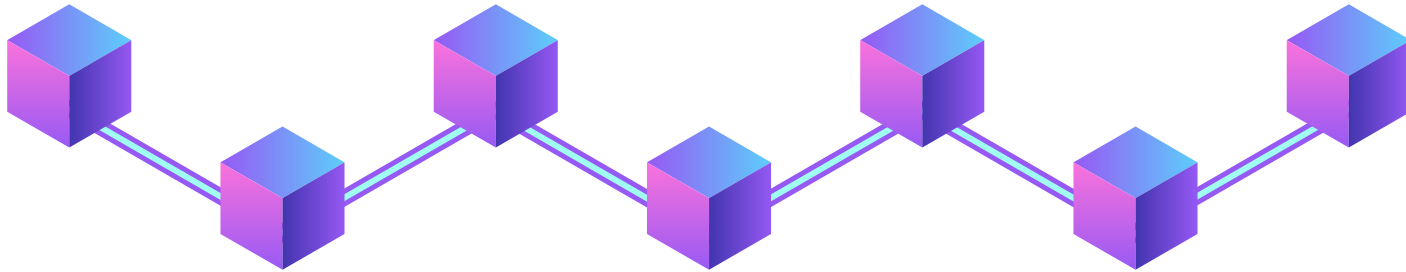
- Every insertion/deletion/update operation;
- Subscription plan payment;
- Pre-paid card redeeming/usage;
- The update/creation of the top 10 most listened songs playlist;



# Concurrency Conflicts

- When creating an account, the same username can't be used twice;
- Multiple comments at the same time can cause the comments to be out of order or to be with the wrong content;
- Simultaneous subscriptions, pre-paid cards, playlist, song or album creation or update

# Development Plan



## Planned Tasks

- Insertion of the necessary data using SQL;
- Postman management;
- Correction of errors;
- Preventing conflicts and data corruption;

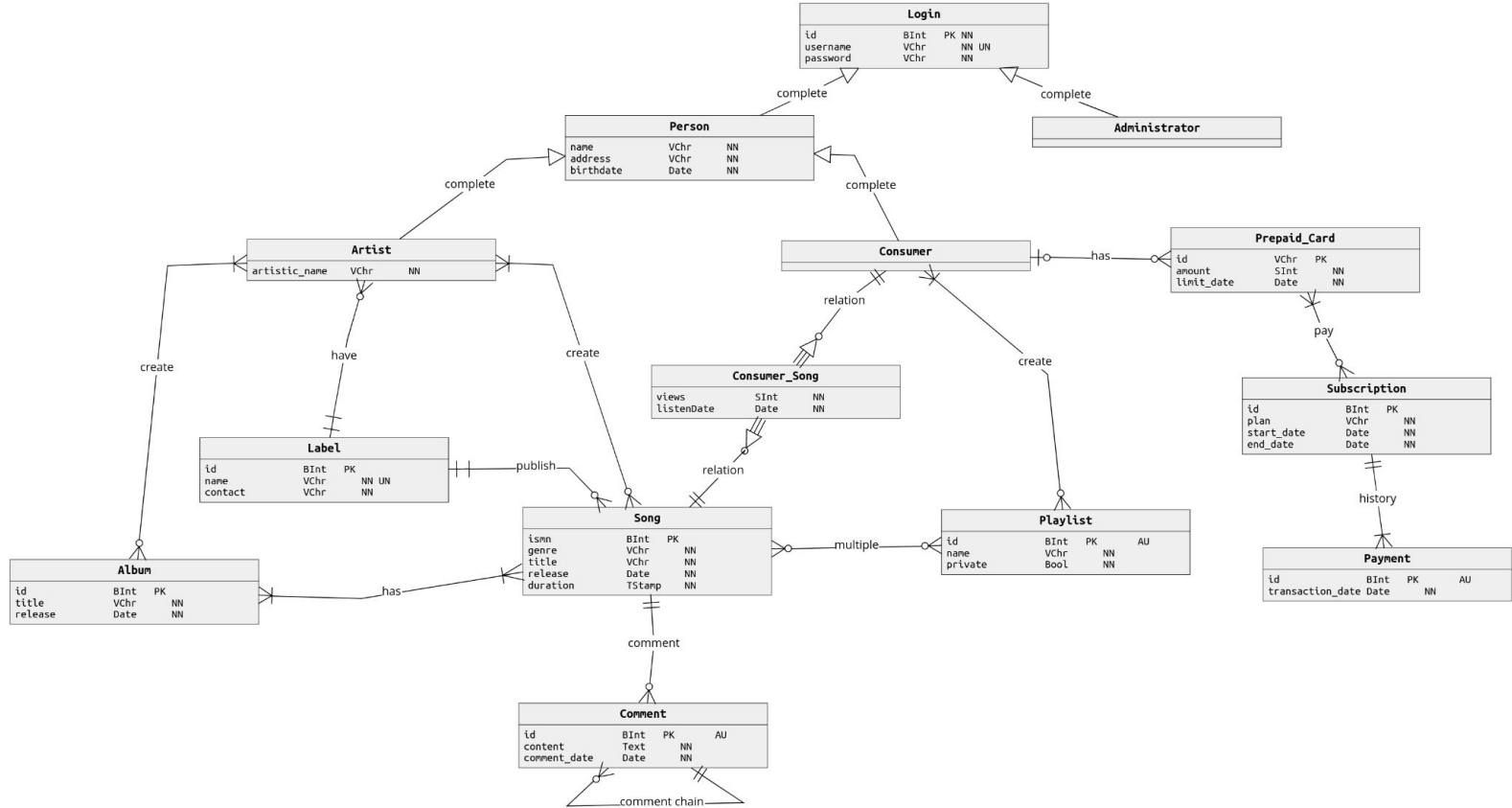
## Work Division

Every team member will work equally in each task.

## Timeline

Weekly 6 hours of work for each team member.

# Conceptual ER



# Physical ER

