

Bases de Dados

*Management of gaming streams*

2MIEIC01 - Group 106

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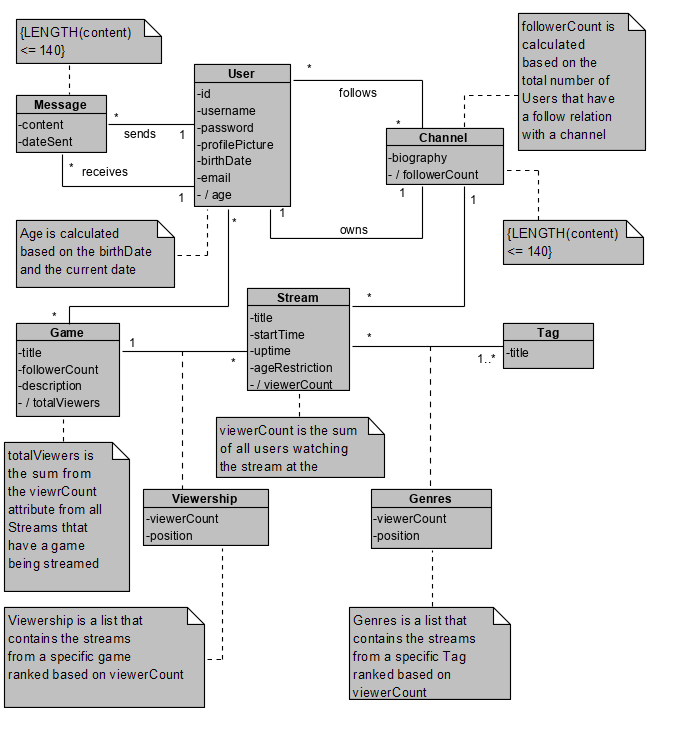
# Description

This project is based on the management of a gaming stream service, similar to *Twitch.*

The system is divided into eight classes, these classes are:

* + - * **User:** it stores all data related to the user, like their id, username, password, profilePicture, birthDate, email and age. The **User** can send and receive a **Message**, he can follow multiple channels and own only one **Channel**, and he can also follow a specific **Game**.
      * **Stream:** the stream is the heart of this service, A stream is a live transmission made on a **Channel** owned by a **User**  playing a **Game** for other users to watch. A Stream stores a title, startTime, uptime, ageRestriction and viewerCount. A **Stream** has one **Game** being played at a time, but the user can play multiple games over the course of the stream. A stream can also have Tags, describing what the stream is about, with all streams having at least one **Tag**.
      * **Message:** it stores the data from messages sent by the **User**, storing the fields content and dateSent.
      * **Channel:** a channel is owned by one user and it is where the user can create an **Stream**, the channel stores a biography and followerCount. A **Channel** can have multiple streams but all streams must be streamed on only one channel.
      * **Game:** the game class stores all the information related to the games streamed on the platform, a game has a title, followerCount, description and totalViewers.
      * **Tag:** a tag is used to describe a **Stream**, it only has a title field and the same tag can be used on multiple streams at the same time.
      * **Viewership:** Itis used to generate a list that contains the streams from a specific **Game** ranked in order based on the viewerCount from that **Game**.
      * **Genres:** it is identical to the **Viewership** class, the only difference is that the ranking is based on a **Tag** instead of a **Game**

# Class Diagram - UML

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