

# CSCI 5448: Object-Oriented Analysis and Design

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**Description:**

The goal of this project is to create a recommender system for a user based on his download and browsing history. To date, there are over 97 million songs written with a new song being written every two minutes. As the usage of MP3 files has increased over the years, it has now become common to include the metadata (ID3 tags) of the mp3 data in these files.

**Actors:** Admin , Customer, Artist

**Functionality:**

- Customer and/or artists can sign up
- Artist can upload songs
- Customers can search songs
- Customer can download songs with metadata
- Customer,artist, admin can log in
- Store search history of customer.
- Suggest songs to customer based on search/download history
- Admin maintains API for song search and download, and can conduct health checks

**Stretch Functionality:**

- Admin can monitor activity and check for malicious users
- General Artist ranking based on customer search trends