

# The Muze Music Library System

## Release 2

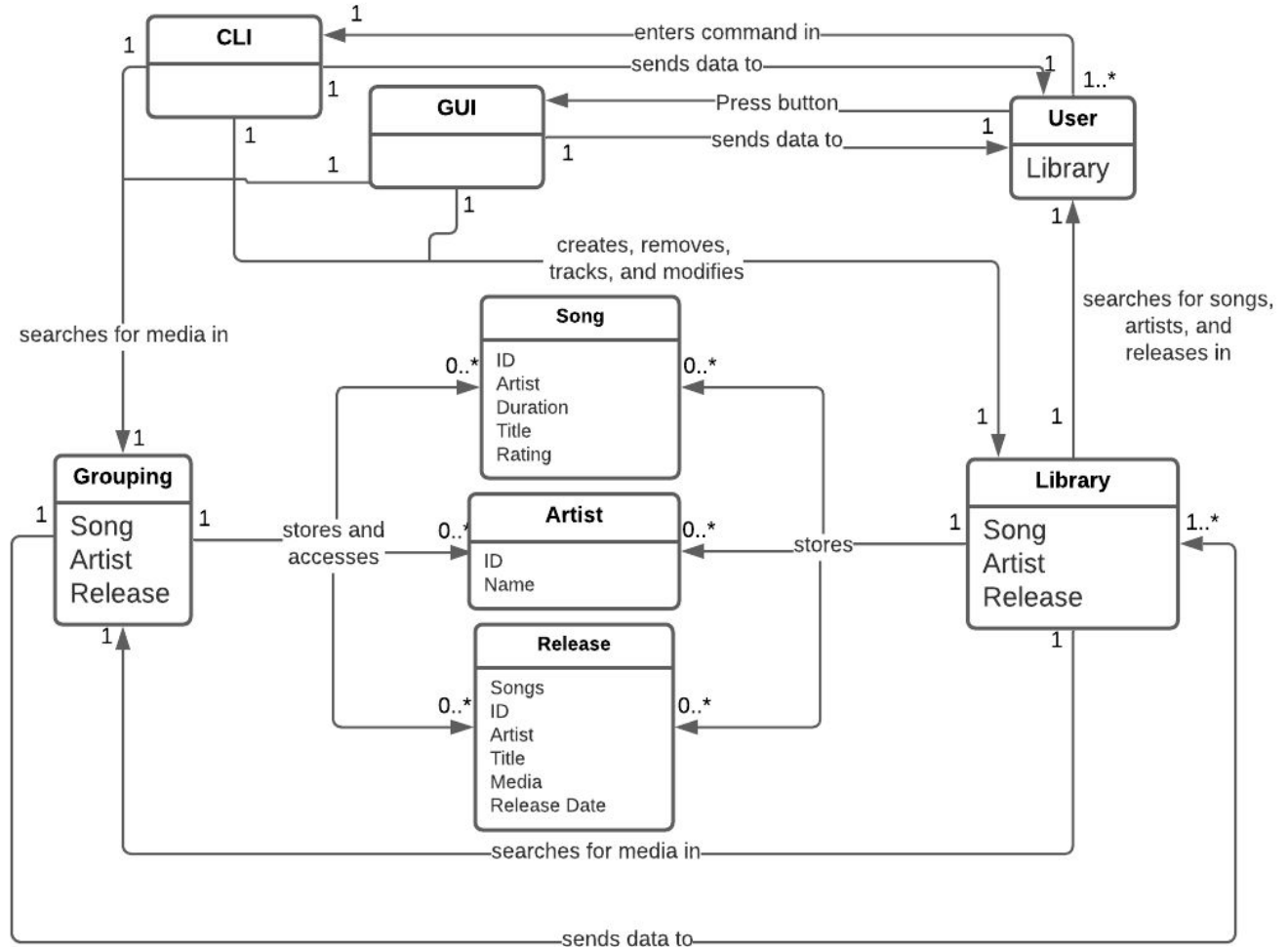
Team 4

Alex Tackett | Brandon Montijo | Chase Marino | Qunzhan Huang | Nikhil Raina

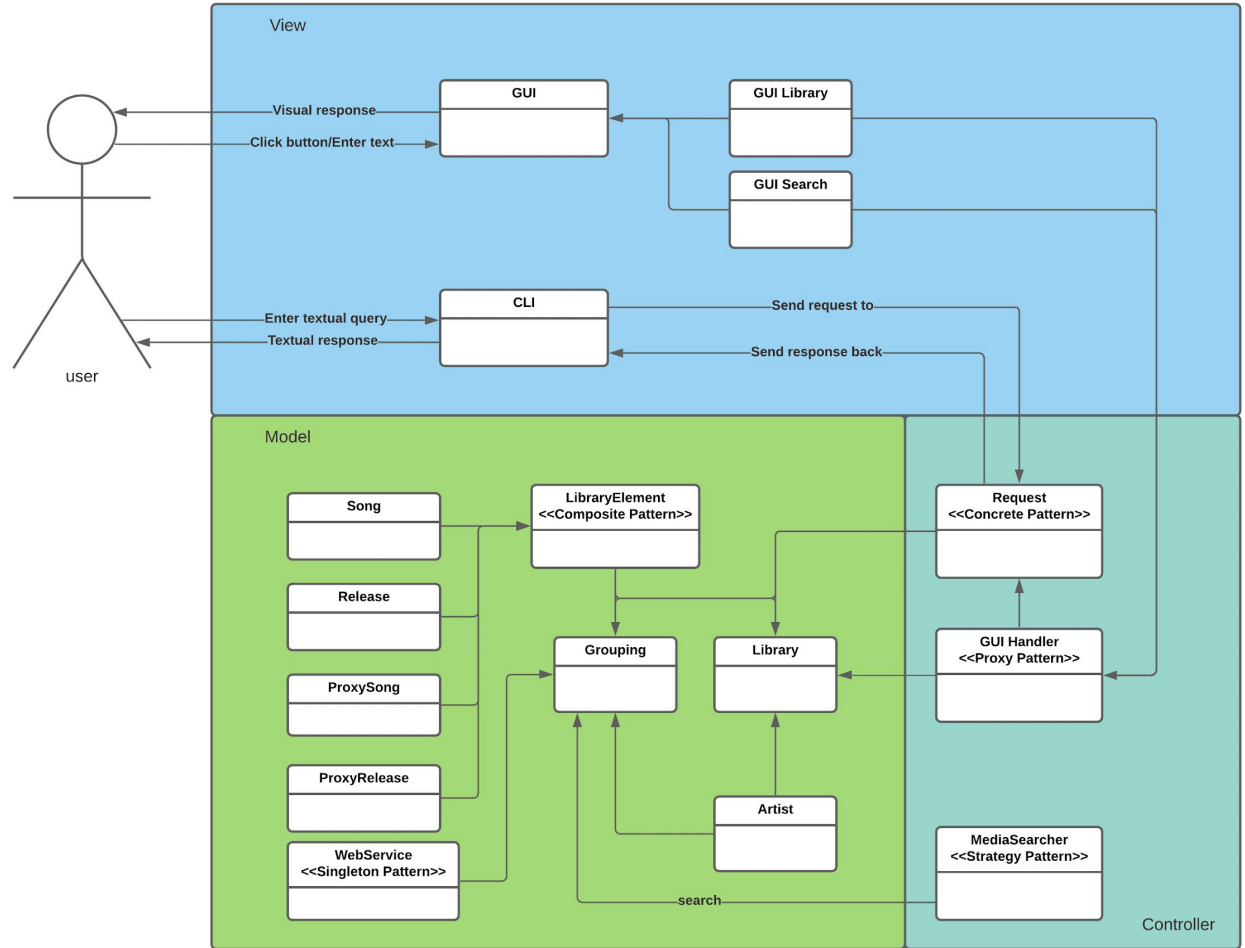
# System Changes since R1

- Bug Fixes
  - User persistence issue
- New Functionality
  - Undo/Redo Functionality
  - Connecting Web Services
  - GUI
- General Refactor
  - Bugs being squashed
  - More condensed and efficient code

# Domain Model



# System Architecture



# Design Patterns

## R1:

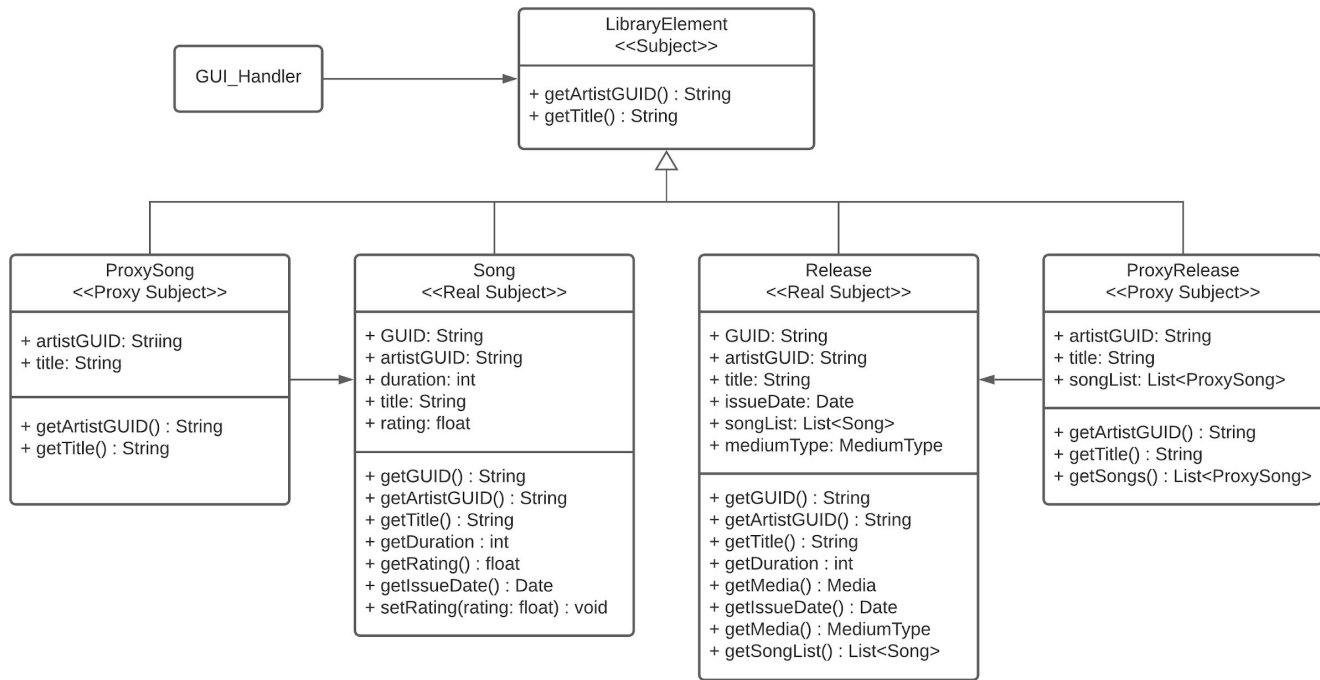
- Command Pattern:
  - User Input has a variety
- Composite Pattern
  - Library system works like a tree
- Strategy Pattern
  - Search feature offers unique searches

## R2:

- Proxy
  - Interaction between GUI and Library Elements
- Singleton
  - Different approaches dealing with data from the services and locally.
- Command
  - Adding new Commands, Undo/Redo for the user to use.

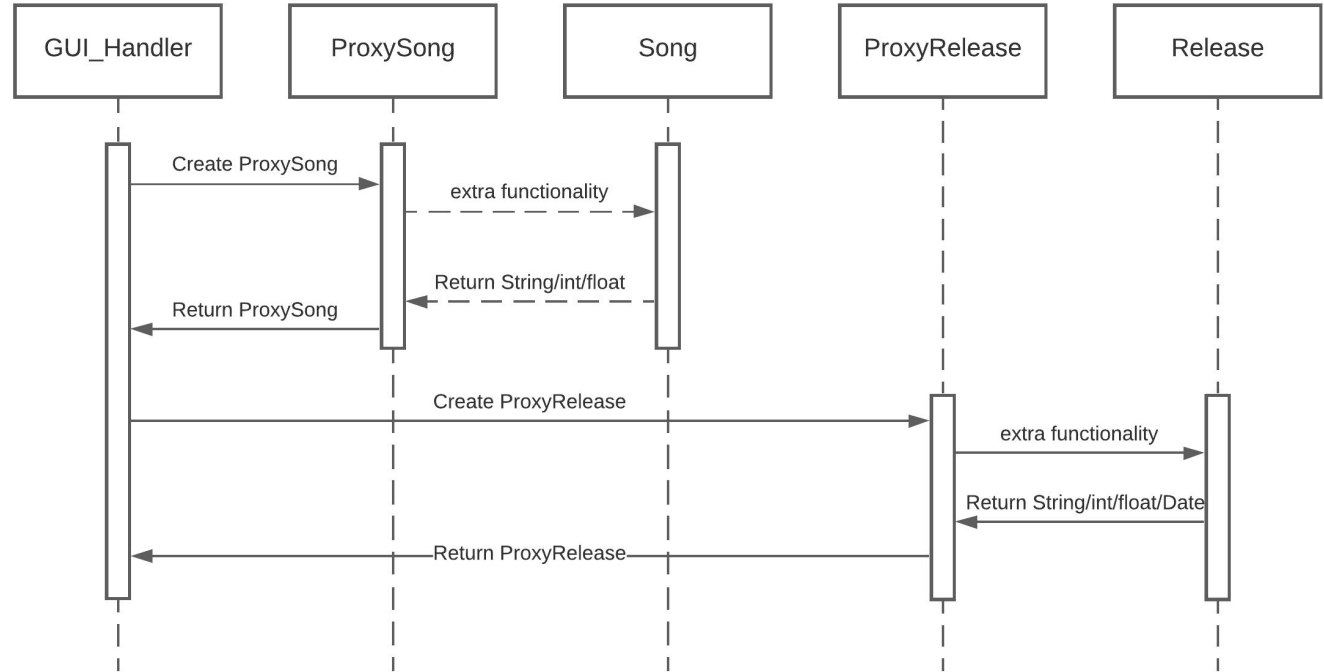
# Proxy

## Class Structure



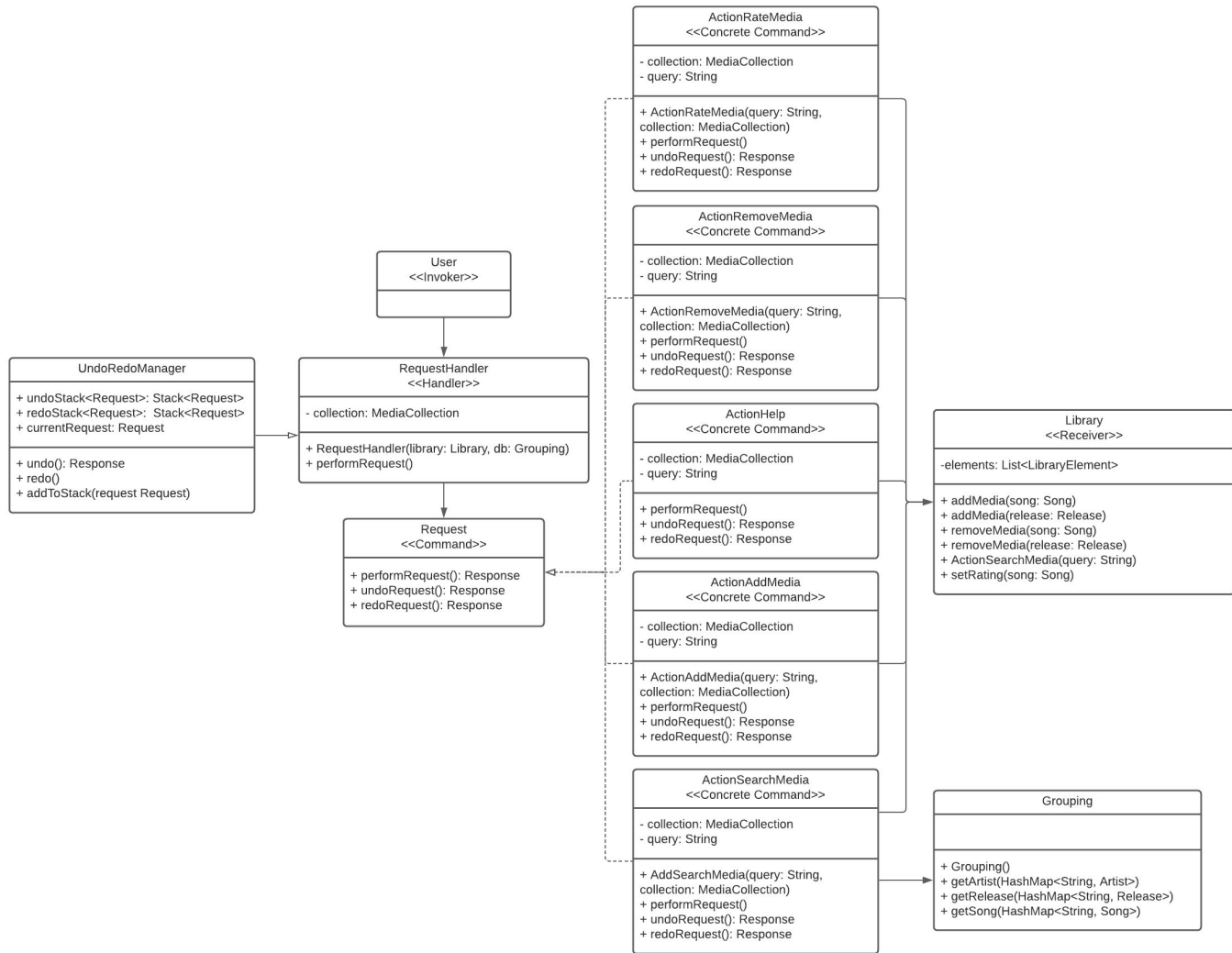
# Proxy

## Sequence Diagram



# Command

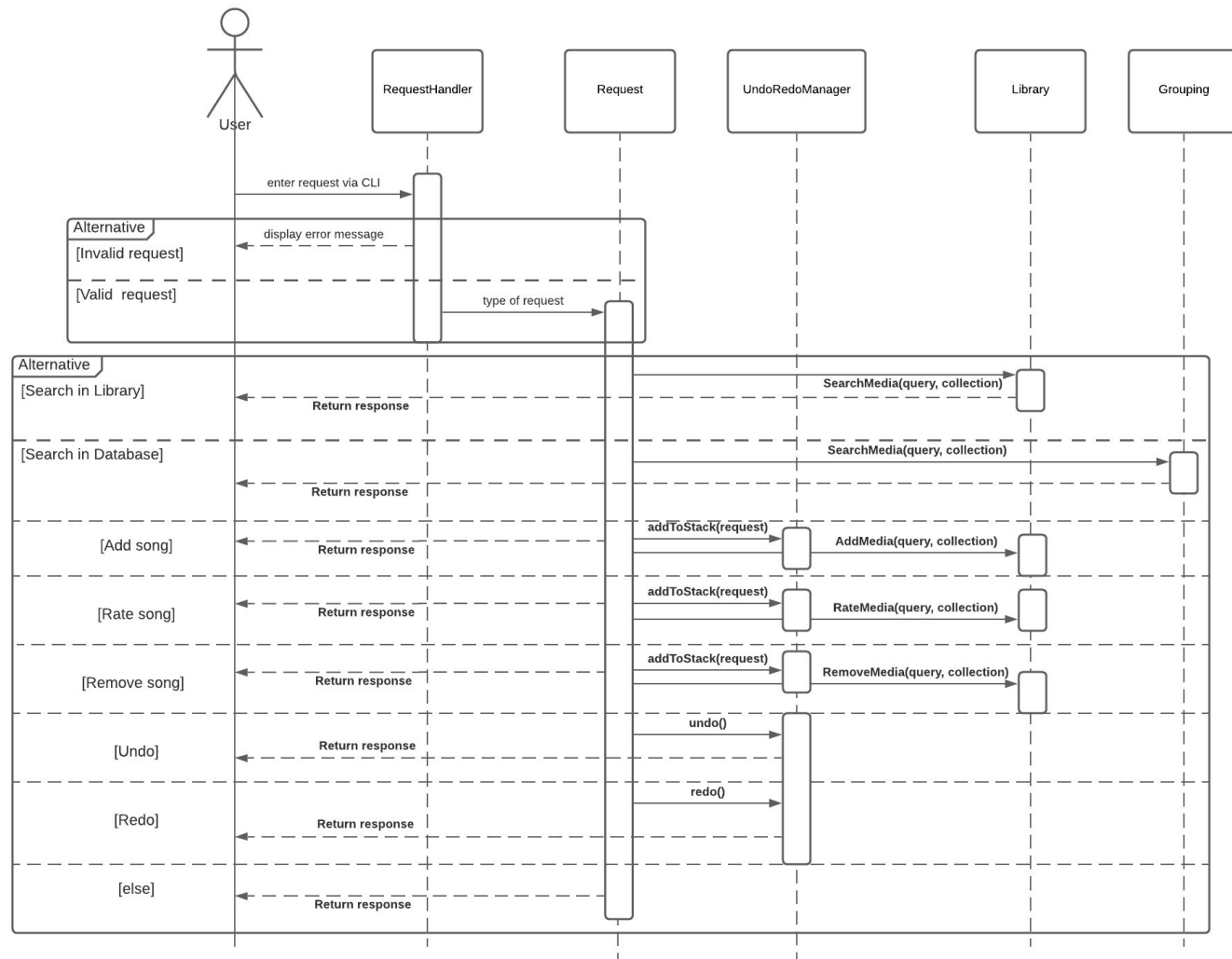
## Class Structure





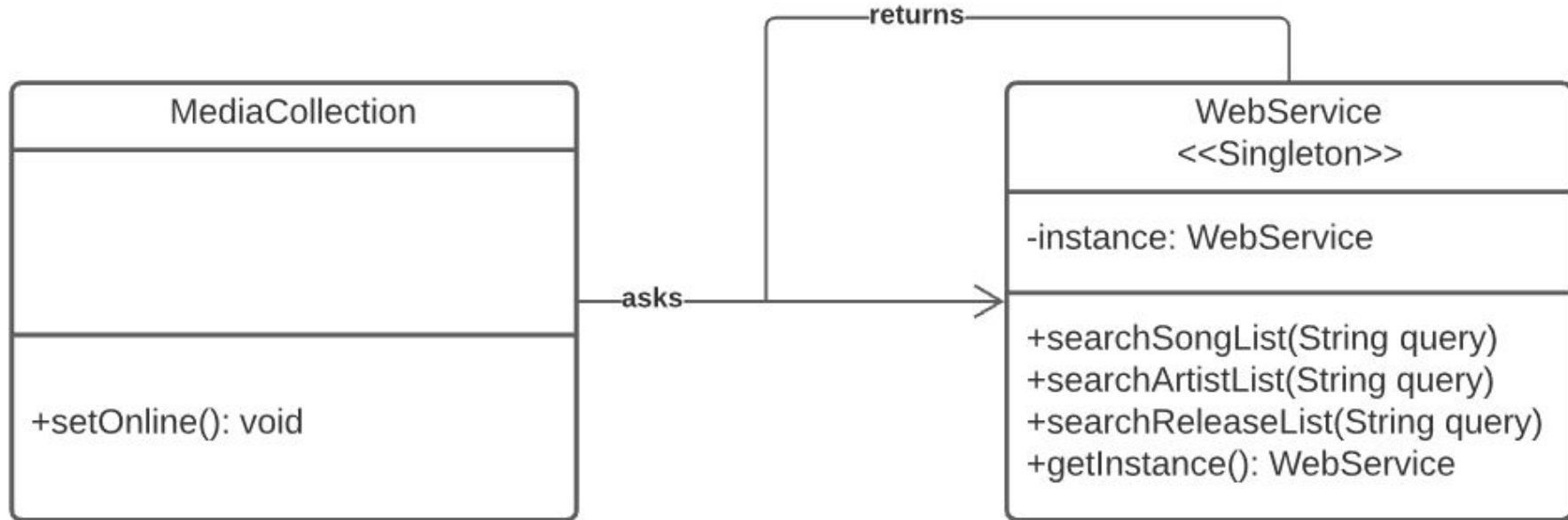
# Command

## Sequence Diagram



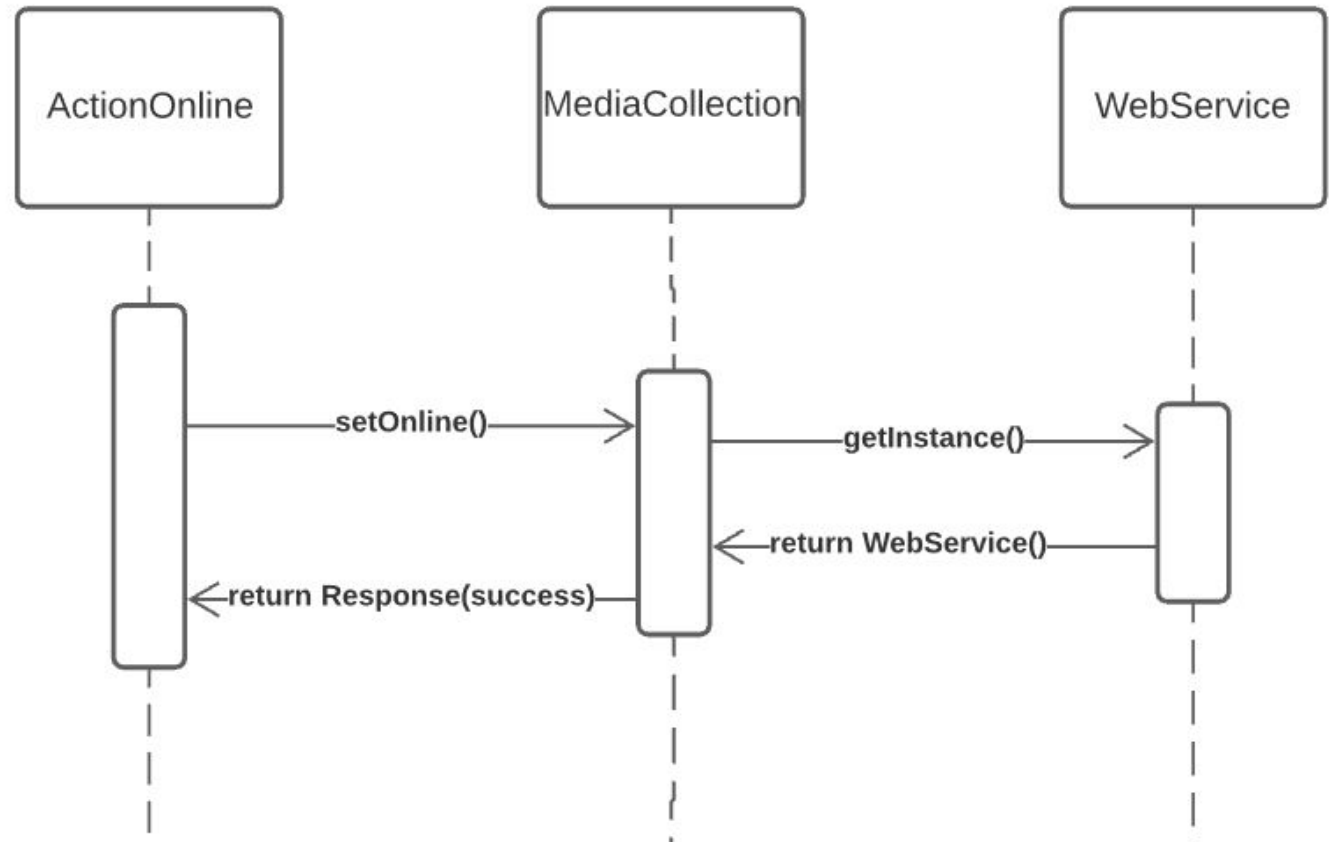
# Singleton

## Class Structure



# Singleton

## Sequence Diagram



# GUI

Home

Search

Your Library

Sign In

Enter Username

Cancel

Enter

1

2

Sign Out

Welcome

Welcome to the Muze Music Library System Brandon

Search

Search

Your Library

Redo

Undo

Sign Out

Search

Sweet Home Alabama

Song



Search

Song Title = Sweet Home Alabama, duration = 376000

Search

Your Library

Add Media

Remove Media

Rate Media

Redo

Undo

Sign Out

Update

Title: Sweet Home Alabama Duration: 376000

Add Media

Song Sweet Home Alabama

Cancel

Add

Remove Media

Song Sweet Home Alabama

Cancel

Remove

Rate Media

Sweet Home Alabama 5

Cancel

Rate

# Summary

- Progress since R1
  - More functionality
  - Less buggy system
  - Improved team coordination
- Possible future improvements
  - The system needs to be thoroughly tested and stress tested to ensure a bug free nature
  - Time management and adherence to due dates
  - Approachable environment to address doubts earlier on

Any Questions?