

- **Team Names (Github):**
  - Scott Young (scottlyoung)
  - Amjad Alharbi (amjaad)
  - Joe Alsko (JAlsko)
  - Jonah Jacobsen (jjjacobsen)
- **Project Title:** Web-based Music Player
- **Project Summary:** A simple web-based Music player system that allows users to listen to their favourite songs, create and edit their own playlists.

### 1. Project Requirements:

User Requirements		
ID	Description	Priority
UR01	As a user, I want to be able to search for songs by song title	Medium
UR02	As a user, I want to be able to search for songs by artist name	Medium
UR03	As a user, I would like to create my own playlist	High
UR04	As a user, I want to add a song to a playlist that has been previously created	High
UR05	As a user, I want to remove a song from a playlist that has been previously created	Low
UR06	As a user, I want to play a song	High
UR07	As a user, I want to play a playlist	High
UR08	As a user, I want to view a song's info	High
UR09	As an admin, I want to remove a song from the database	Low
UR10	As an admin, I want to add a song (w/ attributes) to database	High

Functional Requirements		
ID	Description	Priority
FN01	Searching for songs/artists should autocomplete based on user input	Medium
FN02	Adding songs to the database includes updating a list of existing song names/artists for the purpose of searching	Medium
FN03	Maintain list of users and their passwords	High

Non-Functional Requirements		
ID	Description	Priority
NF01	Pages should be aesthetically pleasing	Medium
NF02	Pages load within 10 seconds	Medium
NF03	Search autocomplete searches within 3 seconds	Medium
NF04	Songs stream faster then they play	Medium

## 2. Use Cases

<b>Use Case ID:</b>	UC-01
<b>Use Case Name:</b>	Find Song by Artist
<b>Description:</b>	The user can find a song by searching for its artist.

<b>Actors:</b>	User
<b>Pre-conditions:</b>	User is logged in.
<b>Post-conditions:</b>	User has found song by scanning through list of songs created by artist.
<b>Frequency of Use:</b>	High.

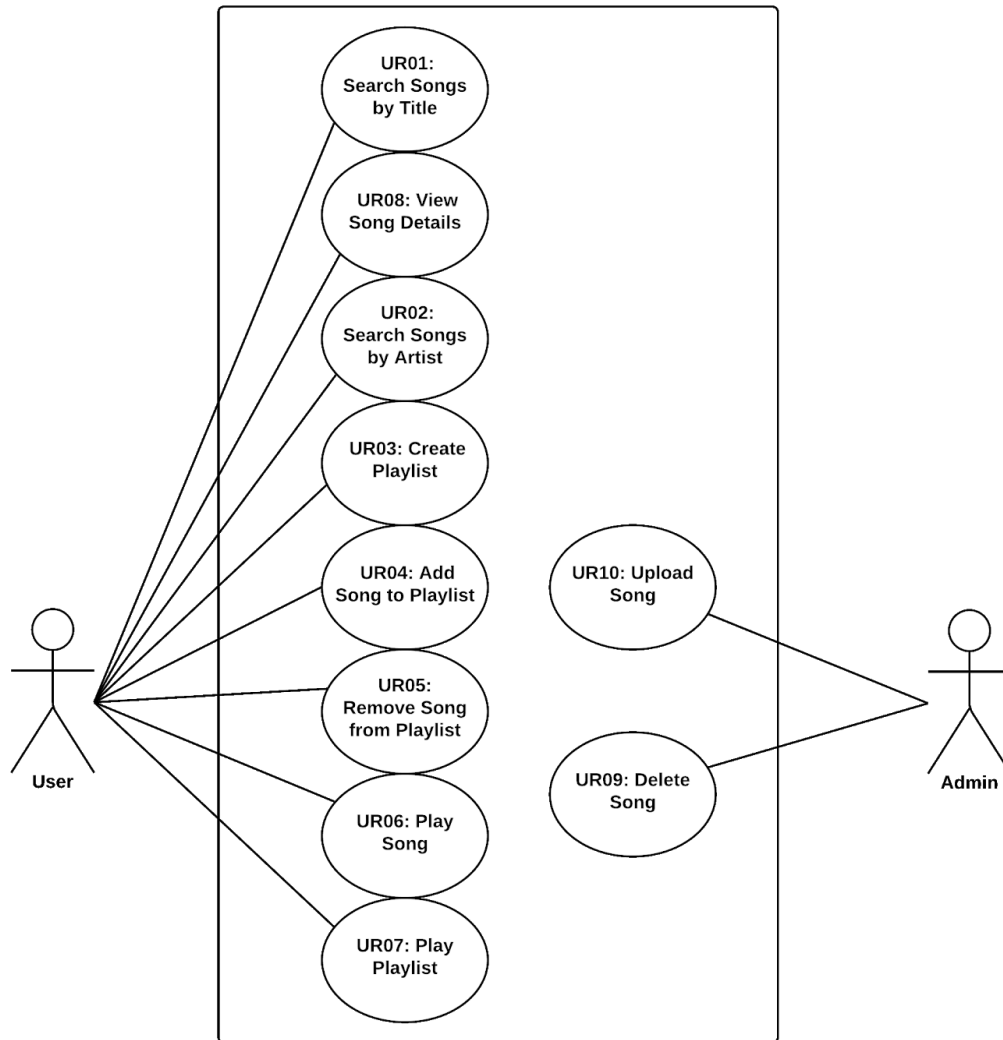
Flow of Events:	Actor Action		System Response
	1	Enter artist name.	Retrieve list of songs/artists that match that search term and display them.
	2	Select an artist to view.	Retrieve a list of the artist's songs.
	3	Select a song.	Retrieve selected song's details and display them.
Variations:	1. Can access the artists songs by opening song info from a playlist. 1. If no matching artists are found, display "No Results Found".		
Exceptions:	If user doesn't type a correct search query then the search will return no results.		
Developer Notes:			

<b>Use Case ID:</b>	UC-02
<b>Use Case Name:</b>	Add Song to Database
<b>Description:</b>	An admin can add a song to the database.

<b>Actors:</b>	Admin		
<b>Pre-conditions:</b>	Admin is logged in.		
<b>Post-conditions:</b>	Song has been added to the database.		
<b>Frequency of Use:</b>	High.		
<b>Flow of Events:</b>	<b>Actor Action</b>		<b>System Response</b>
	1	Enter Song info to form and Submit	Check if user is Admin
	2	Add Song to database	
	3		Add song to matching artist
	4	Display “Song Added” message	
<b>Variations:</b>	3. If a matching artist does not exist, one will be created.		
<b>Exceptions:</b>	1. If user is not admin, display “No Permission” message		
<b>Developer Notes:</b>			

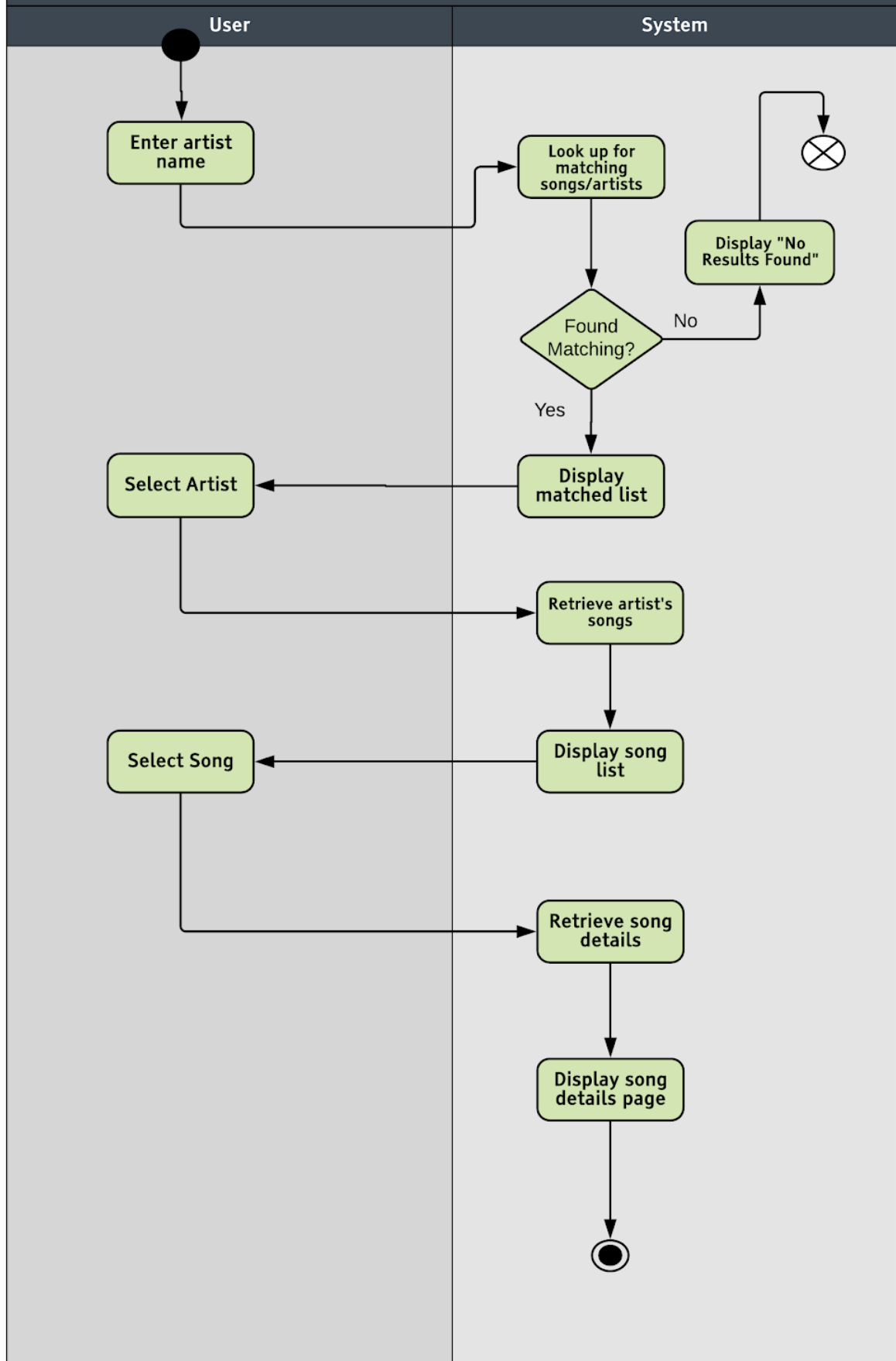
# MUSIC PLAYER USE CASE DIAGRAM

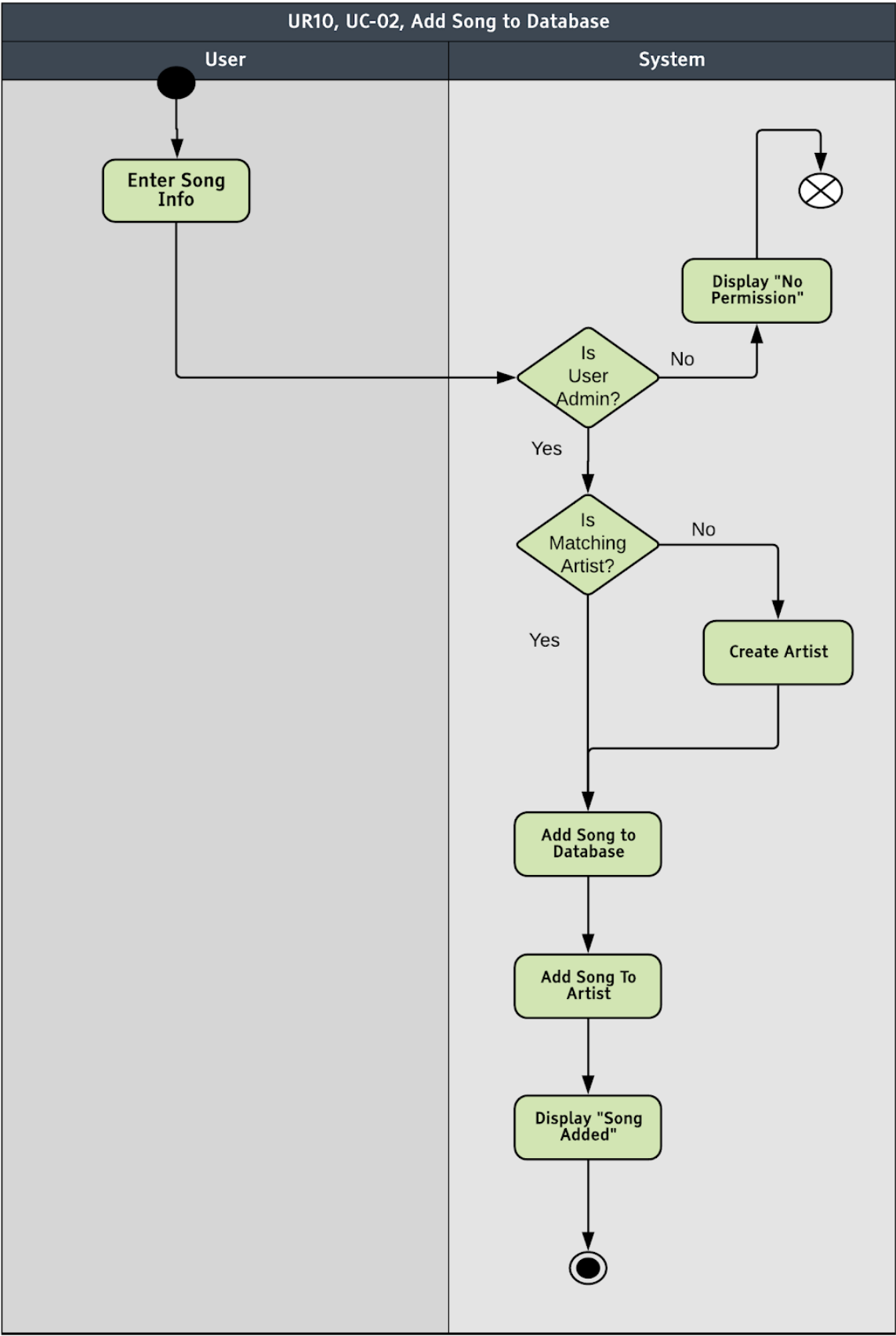
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## 3. Activity Diagram

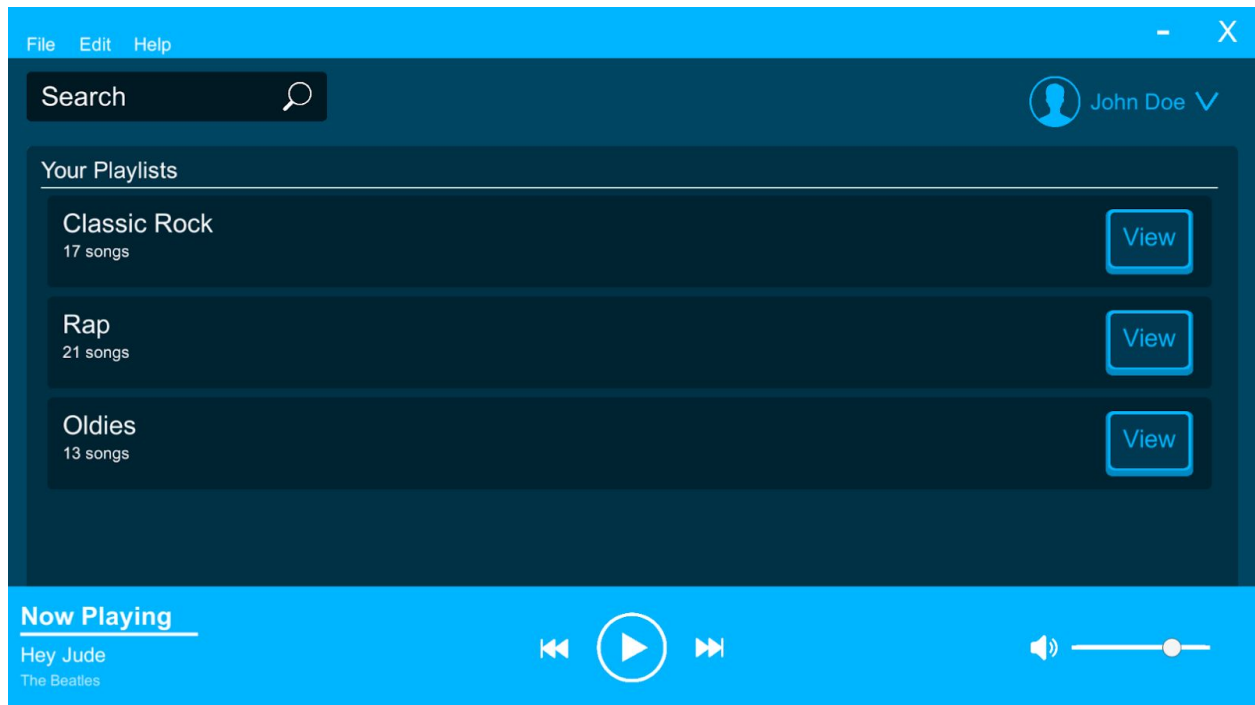
UR02, UC-01, Find Song by Artist



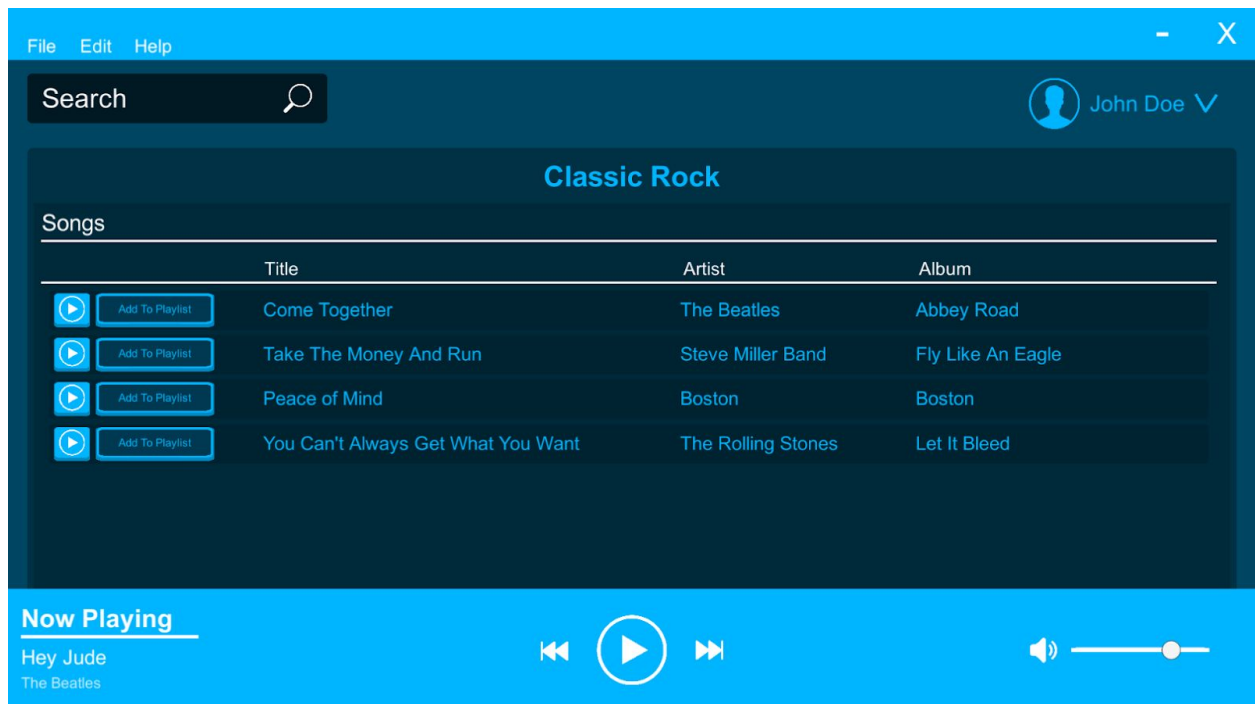


## 4. UI Mockups

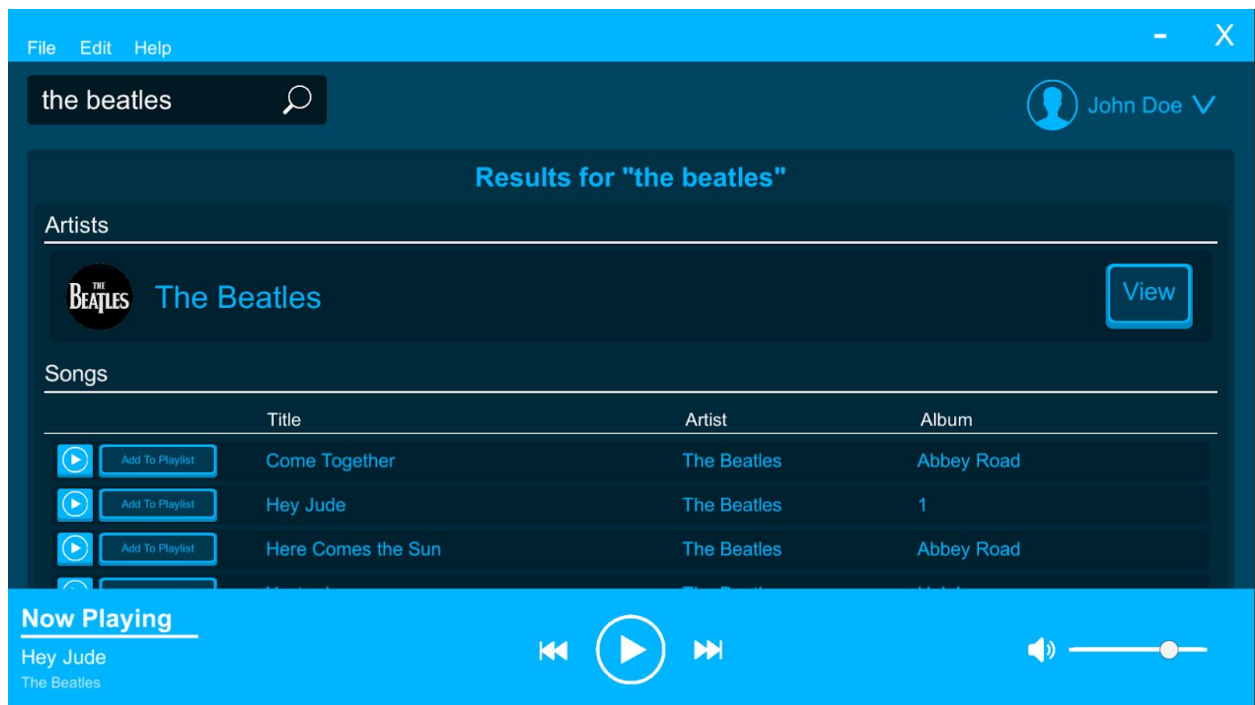
### View Playlists



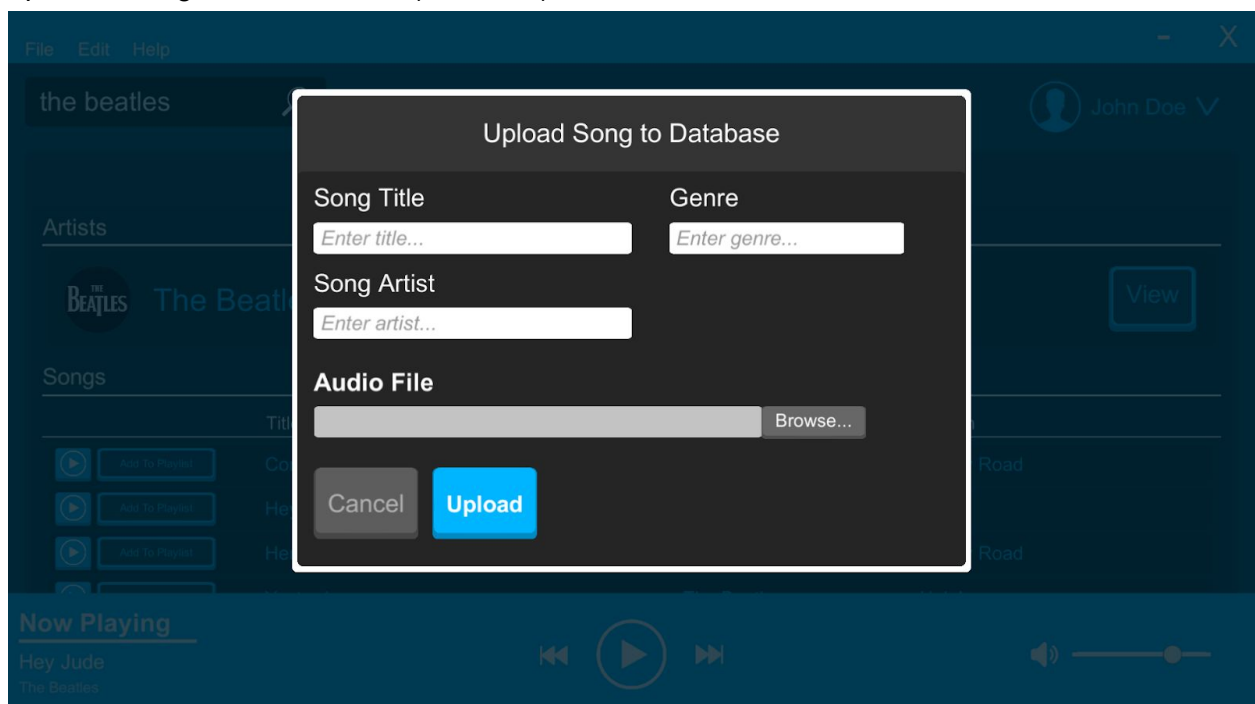
### View Songs in Playlist



Search for song/artist

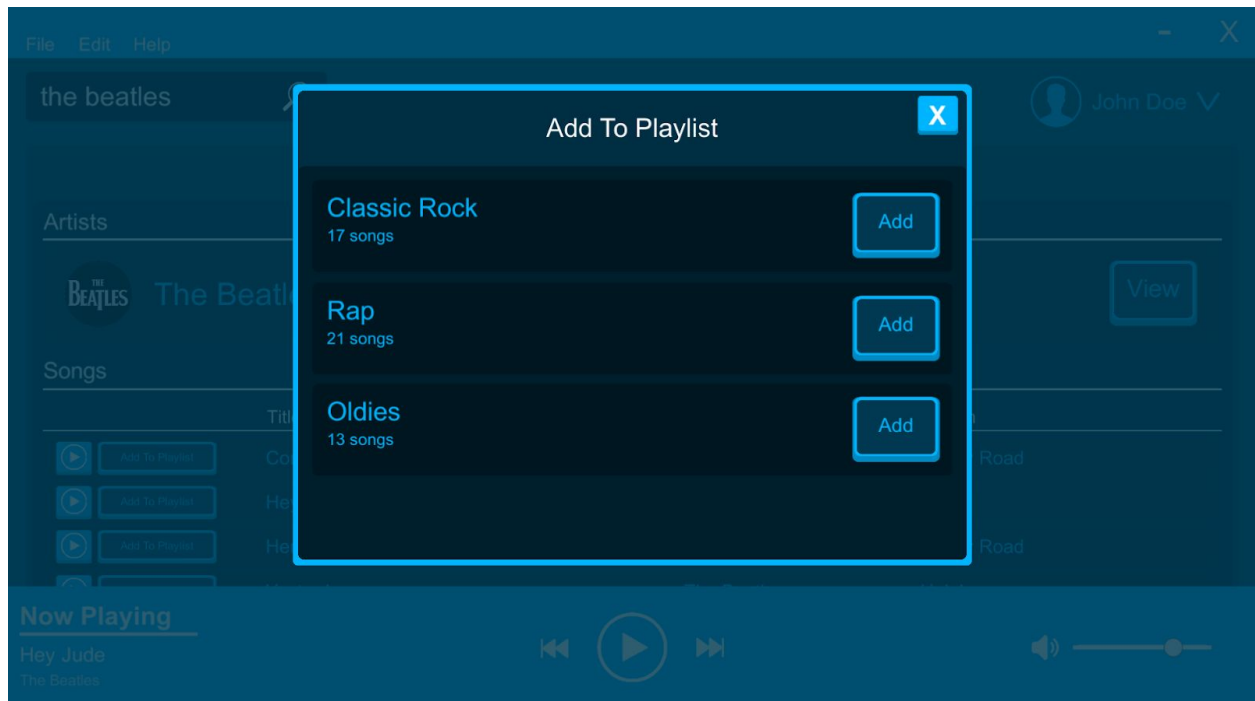


Upload a song to the database (as admin)





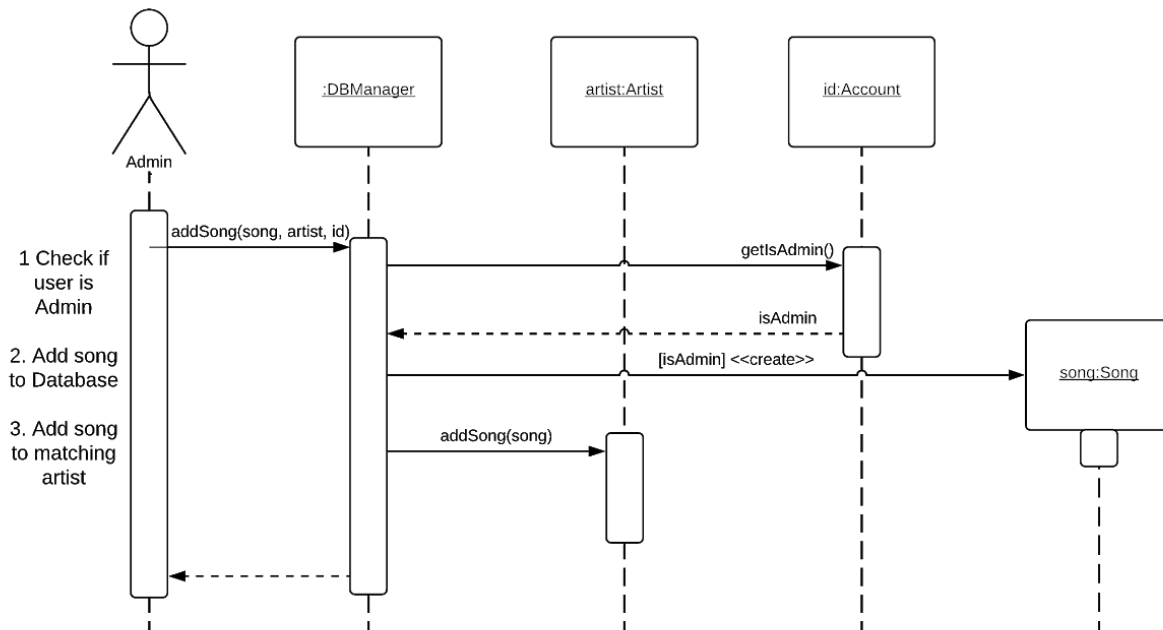
## Add a song to playlist



## 5. Sequence Diagram

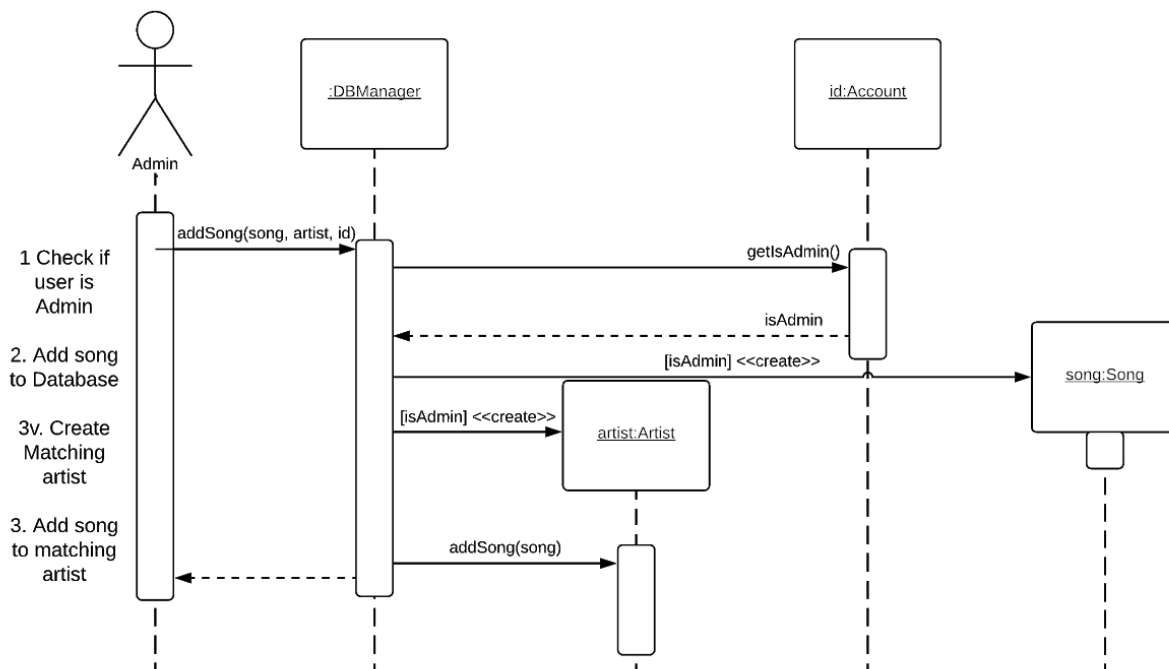
### UR10, UC-02, ADD SONG TO DATABASE

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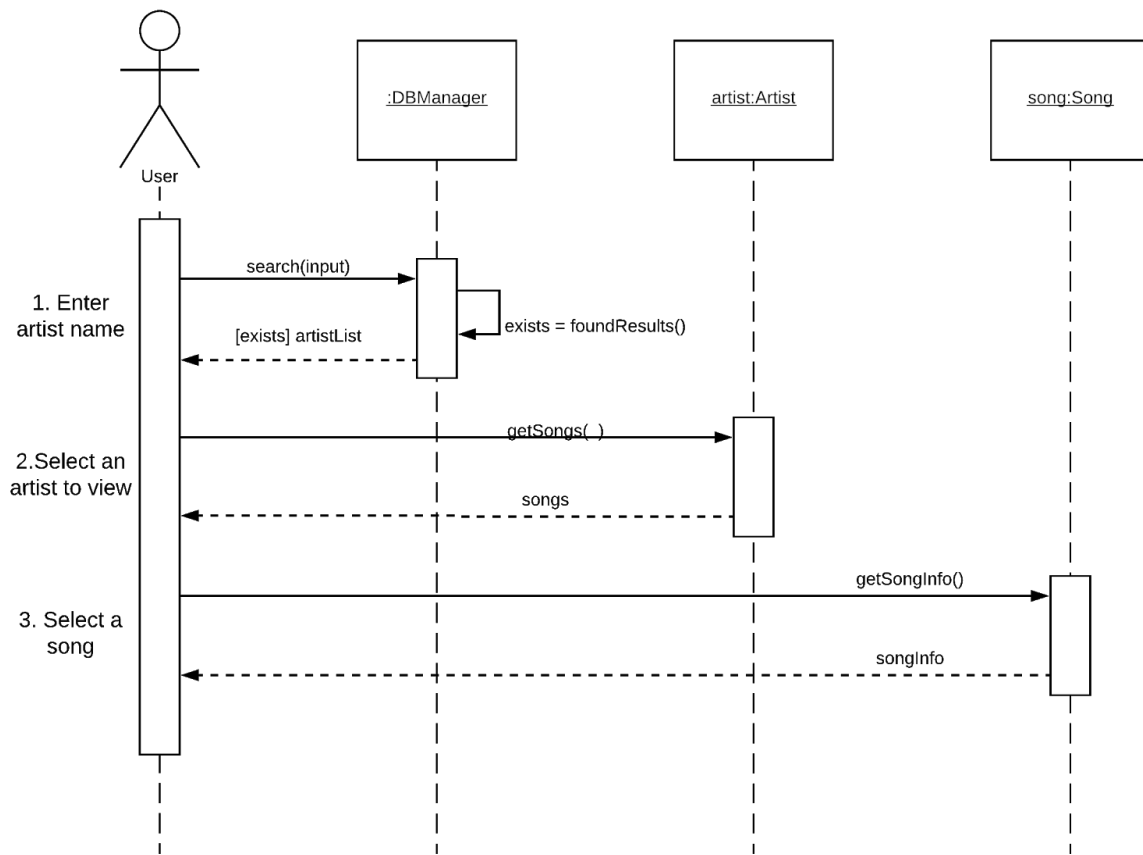
### UR10, UC-02, ADD SONG TO DATABASE - VARIATION

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## UR02, UC-01, FIND SONG BY ARTIST

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## 6. Class Diagram

