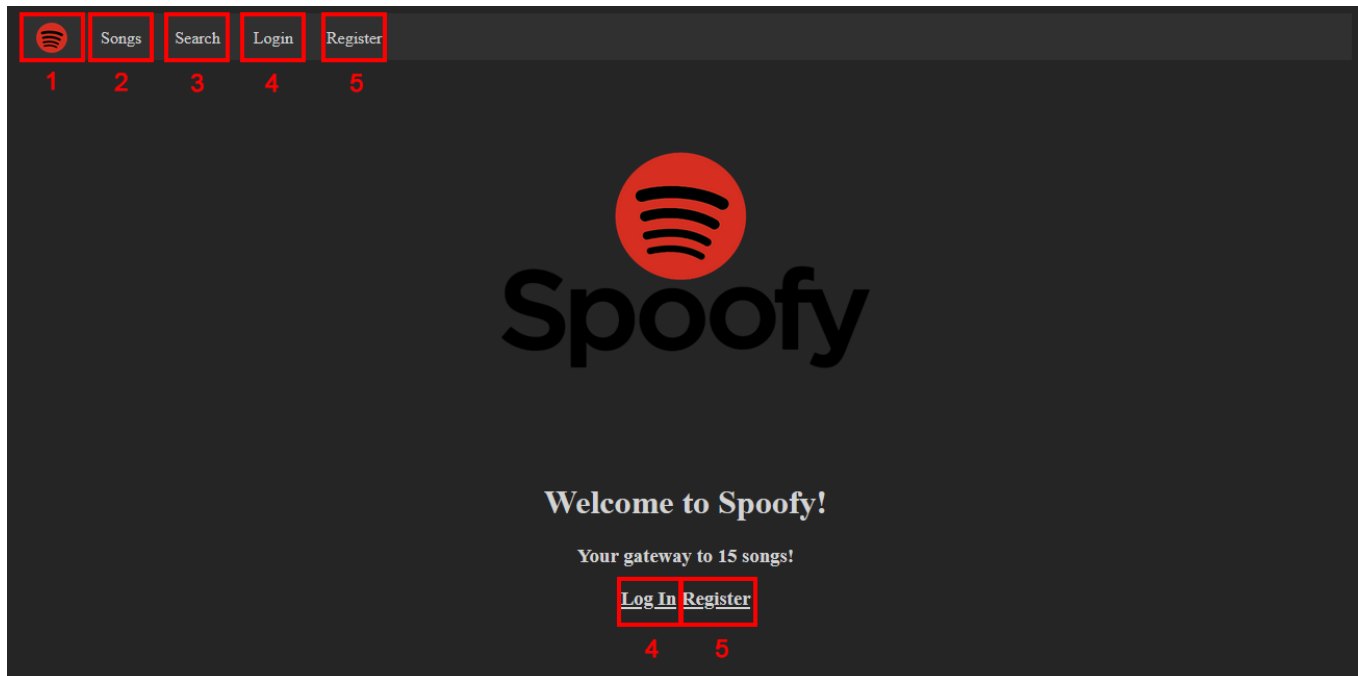


Spoofy: User Manual

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Unregistered User

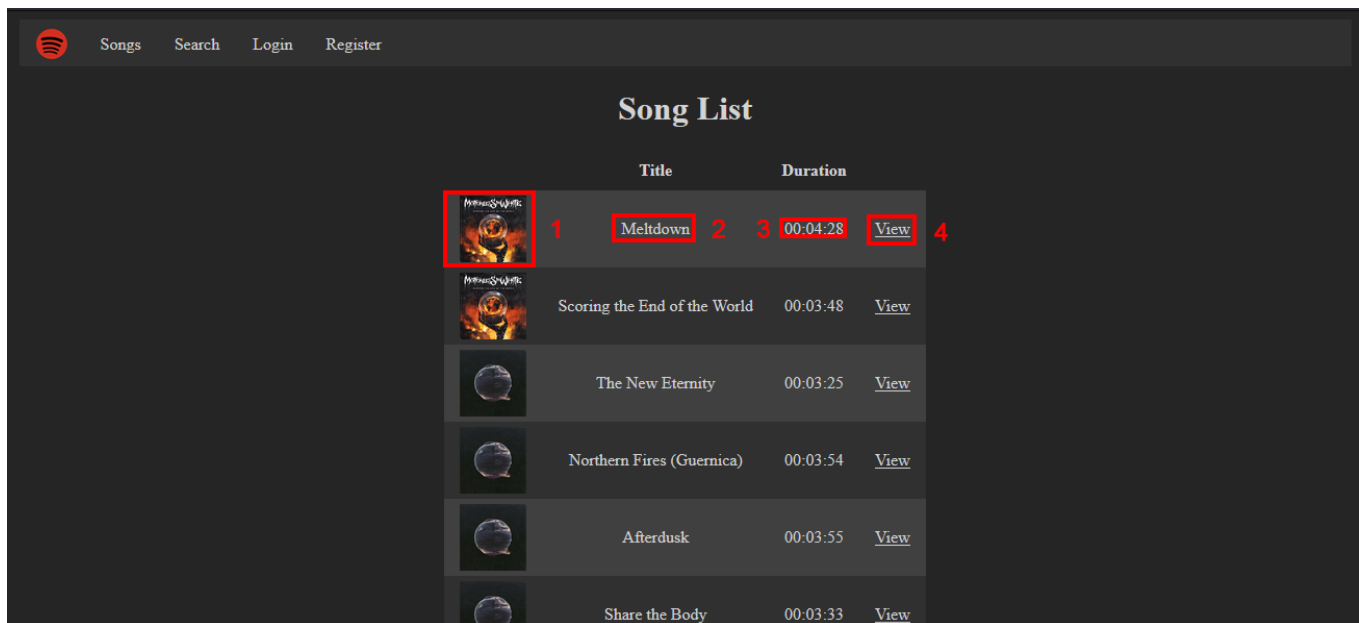
Home Page



This is the main page that a user will see when accessing Spoofy for the first time. As an unregistered user, you are prompted to log in or register while also being able to access the list of songs and search functionalities.

1. Navigate to Home.
2. Navigate to Songs.
3. Navigate to Search.
4. Navigate to Login.
5. Navigate to Register.

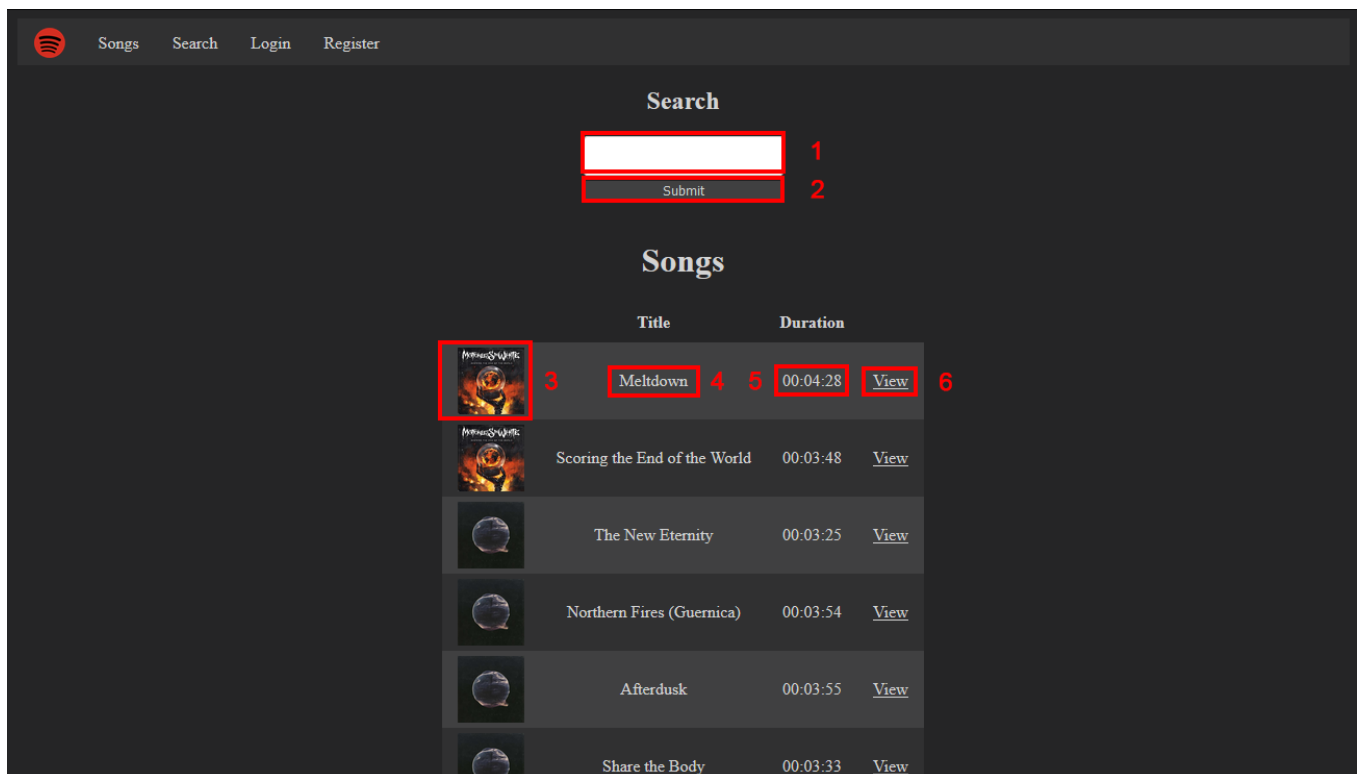
Song List



The song list that an unregistered user can see. Note the lack of "Play" and "Add to Queue" buttons, as playing music is a functionality reserved for premium users.

1. Song image.
2. Song title.
3. Song duration.
4. Click to view song details.

Search Page

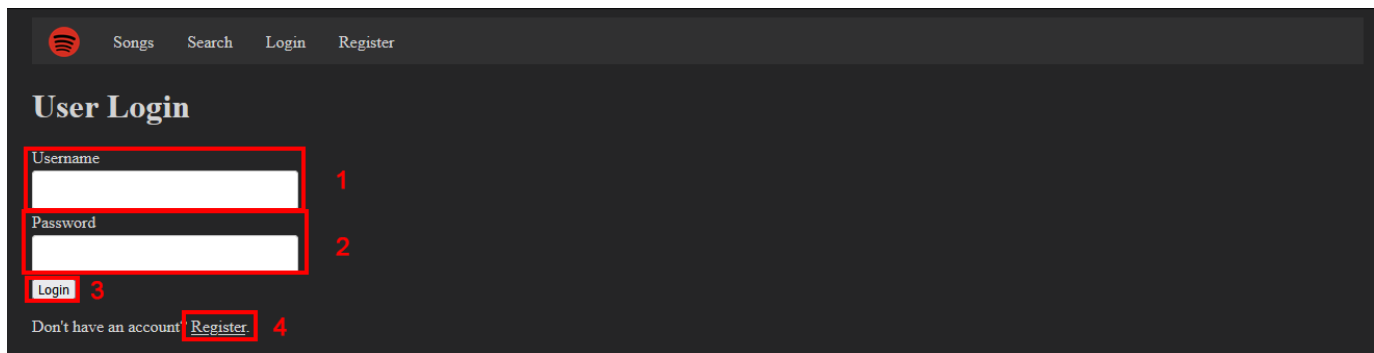


The search page takes a query string and uses it to search the music database, returning all songs, albums, and artists that contain the query as a substring. Not pictured in the screenshot is the search results of Albums and Artists underneath

the results of Songs.

1. Click to type in a string to search for.
2. Click to submit your search. The list of songs, albums, and artists below will update to show only ones where some portion of their name matches your search query.
3. Song image.
4. Song title.
5. Song duration.
6. Click to view song details.

User Login



The "Login" button from the top menubar or the home screen will direct you here, prompting you to log in. Failing to log in will notify you of the error and allow you to try again.

1. Click to type in your username.
2. Click to type in your password.
3. Click to attempt to log in with the username and password you have typed.
4. Navigate to the register page if you do not have an account yet.

User Register

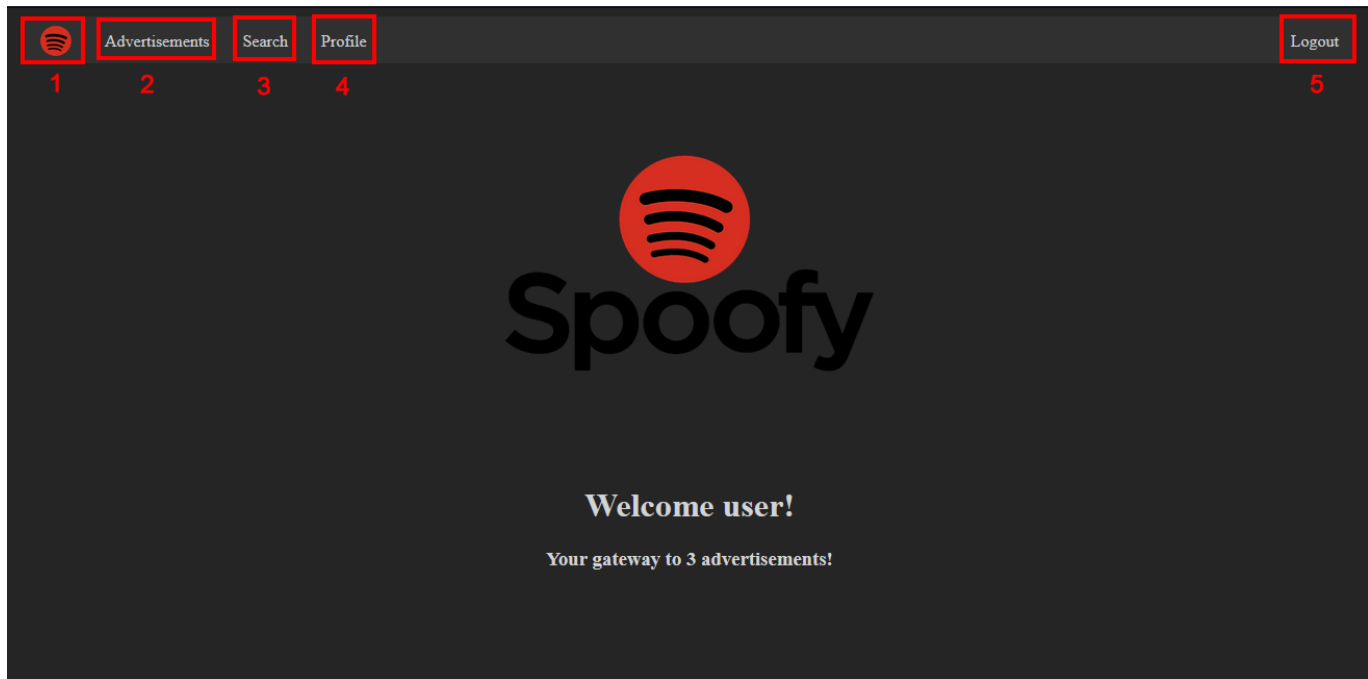


If you need to register you need to enter a unique username and a password. The password is securely stored in the database under the SHA256 hash algorithm. Once your account has been created you will be directed to the login page to securely log in with your new free account.

1. Click to type in a username you would like the new account to have.
2. Click to type in a password for the new account.
3. Click to type in the same password to verify that you have not made an error in the previous text box.
4. Click to submit a request to create the new account.
5. Click to reset the text fields if you wish to clear them and start over.
6. Navigate to the login page if you already have an account.

Free User

Home Page



After logging in as a free user you will see the home page. As free users can only access advertisements, the option to go to the Song List page is disabled and replaced by an Advertisements page. Note the addition of the Profile button in the menubar.

1. Website logo. Click at any point to return to this home page.
2. Navigate to Advertisements.
3. Navigate to Search.
4. Navigate to your account's Profile.
5. Click to log out of your account.

Advertisement List

The screenshot shows the 'Advertisements' page. The navigation bar is the same as the home page. Below the bar is a table with three columns: ID, Company, and Duration. There are three rows of advertisements. Each row has three buttons: 'View' (labeled 1), 'Play' (labeled 2), and 'Add to Queue' (labeled 3).

ID	Company	Duration			
1	Live Nation	01:00:01	View	Play	Add to Queue
2	Spotify	00:04:21	View	Play	Add to Queue
3	Apple Music	00:03:51	View	Play	Add to Queue

Navigating to the advertisements page will show this list of ads. Ads can be viewed from here. As a registered user you can now play them, adding them to the queue.

1. Click to view the advertisement.
2. Click to play the advertisement.
3. Click to add the advertisement to your queue.

Search Page

The screenshot shows a web application interface for searching advertisements. At the top is a navigation bar with a logo, links for 'Advertisements', 'Search', and 'Profile', and a 'Logout' button. Below the navigation bar is a 'Search' section with a text input field (labeled 1) and a 'Submit' button (labeled 2). Underneath is an 'Advertisements' section containing a table with three columns: 'ID', 'Company', and 'Duration'. The table lists three items: 'Live Nation' (ID 1, Duration 01:00:01), 'Spotify' (ID 2, Duration 00:04:21), and 'Apple Music' (ID 3, Duration 00:03:51). Each row has three buttons: 'View' (labeled 3), 'Play' (labeled 4), and 'Add to Queue' (labeled 5).

ID	Company	Duration			
1	Live Nation	01:00:01	View	Play	Add to Queue
2	Spotify	00:04:21	View	Play	Add to Queue
3	Apple Music	00:03:51	View	Play	Add to Queue

Similar to the search page for music, this search page takes a string from the user as a query. This will return the list of all advertisements that contain the query as a substring. As with the advertisements page, ads can be viewed and played from here.

1. Click to type in a string to search for.
2. Click to submit your search. The list of songs, albums, and artists below will update to show only ones where some portion of their name matches your search query.
3. Click to view the advertisement.
4. Click to play the advertisement.
5. Click to add the advertisement to your queue.

Profile Page

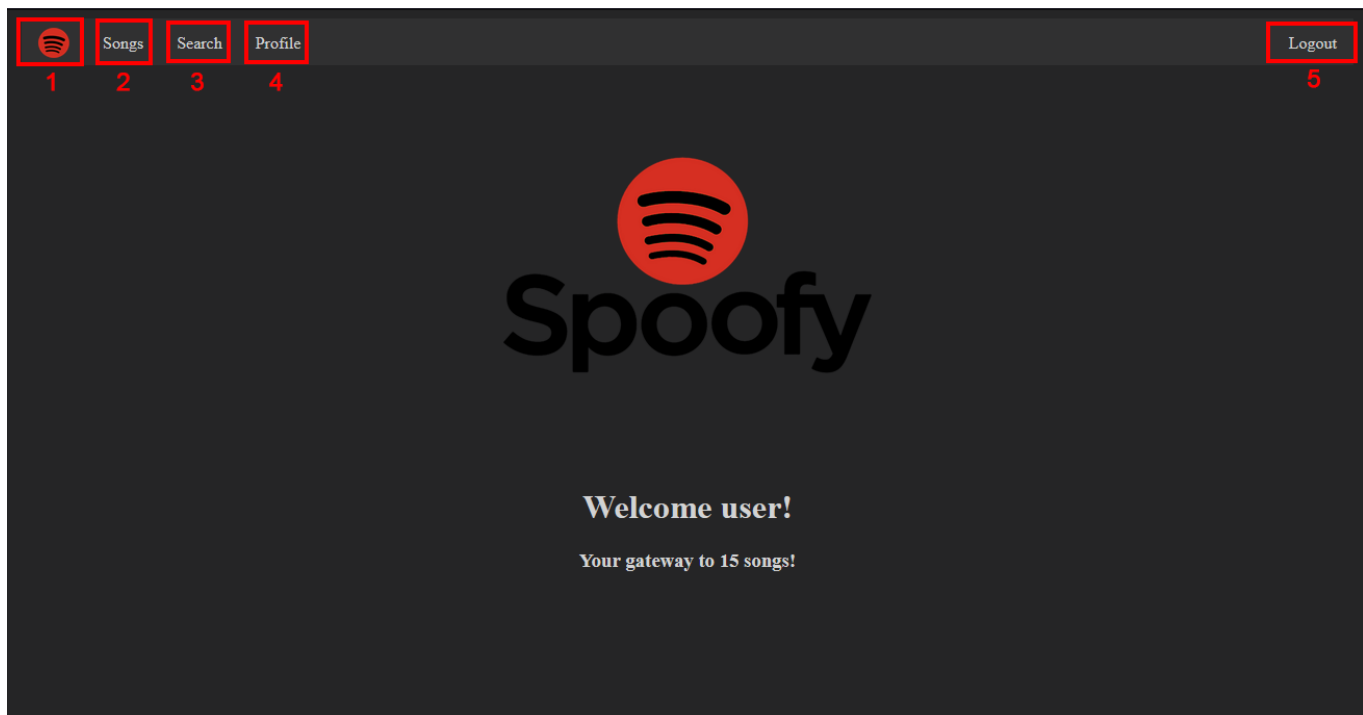
The screenshot shows a user profile page for a free user. The navigation bar is identical to the search page. The main content area displays the user's profile information: 'user' (labeled 1), 'Account Type: Free' (labeled 2), and a message: 'Your Free Account Cannot Create Playlists.' Below this, there are two buttons: 'Logout' (labeled 3) and 'Subscribe for Premium Membership' (labeled 4).

The profile page of a free user. Note that free accounts cannot create or use playlists, as that functionality is reserved for premium users.

1. Your username.
2. Your account type.
3. Click to log out of your account.
4. Click to upgrade your account's membership from Free, which can only view ads, to Premium, which can view songs, albums, and artists, and create playlists.

Premium User

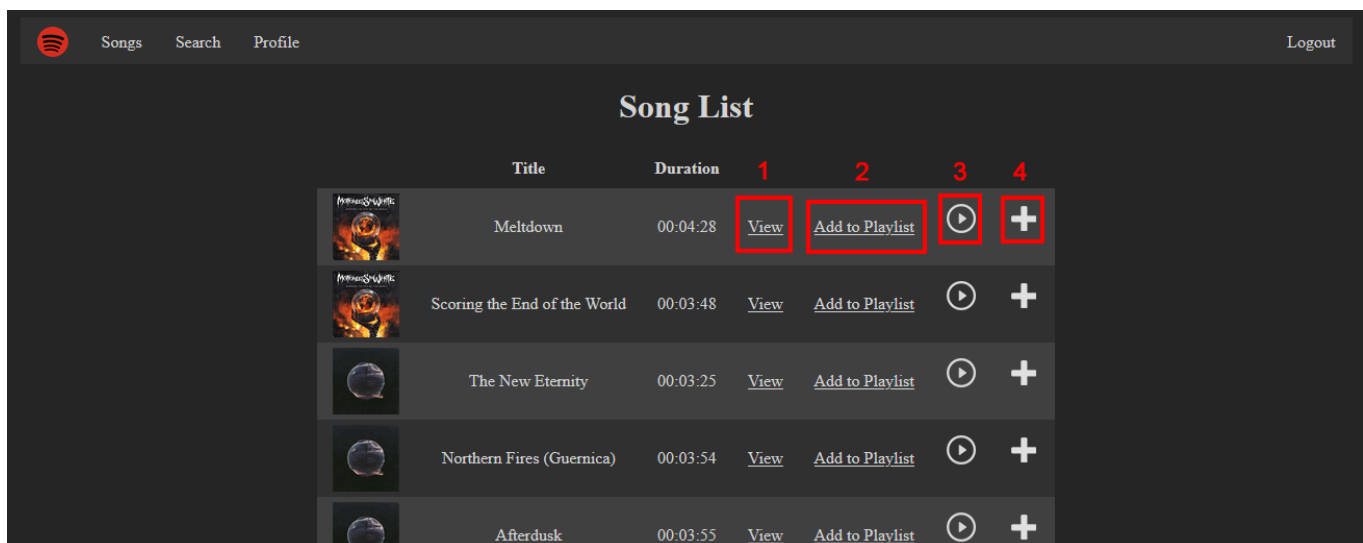
Home Page



The home page for a premium user. Note that this user can view the Song List, instead of Advertisements.

1. Website logo. Click at any point to return to this home page.
2. Navigate to Advertisements.
3. Navigate to Search.
4. Navigate to your account's Profile.
5. Click to log out of your account.

Song List

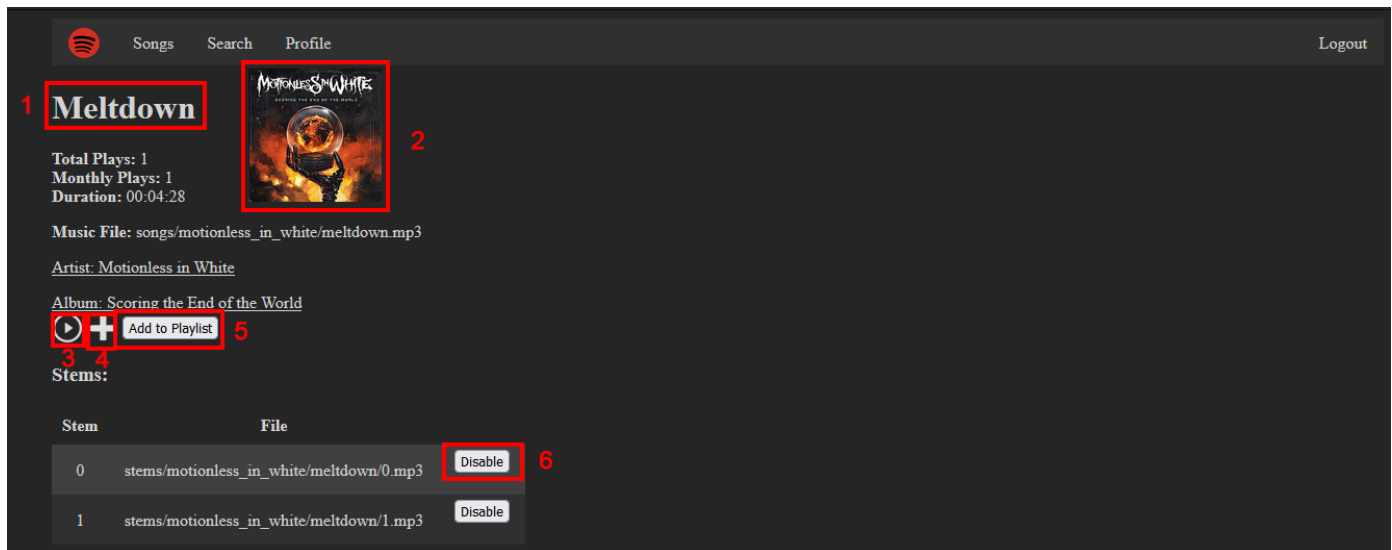


The songs list page for a premium user. Similar to the song list page for an unregistered user, premium users have the additional functionality of being able to add songs to playlists, play songs, and add them to the queue.

1. Click to view the details of the song.
2. Click to add the song to one of your playlists.
3. Click to play the song.

- Click to add the song to your queue.

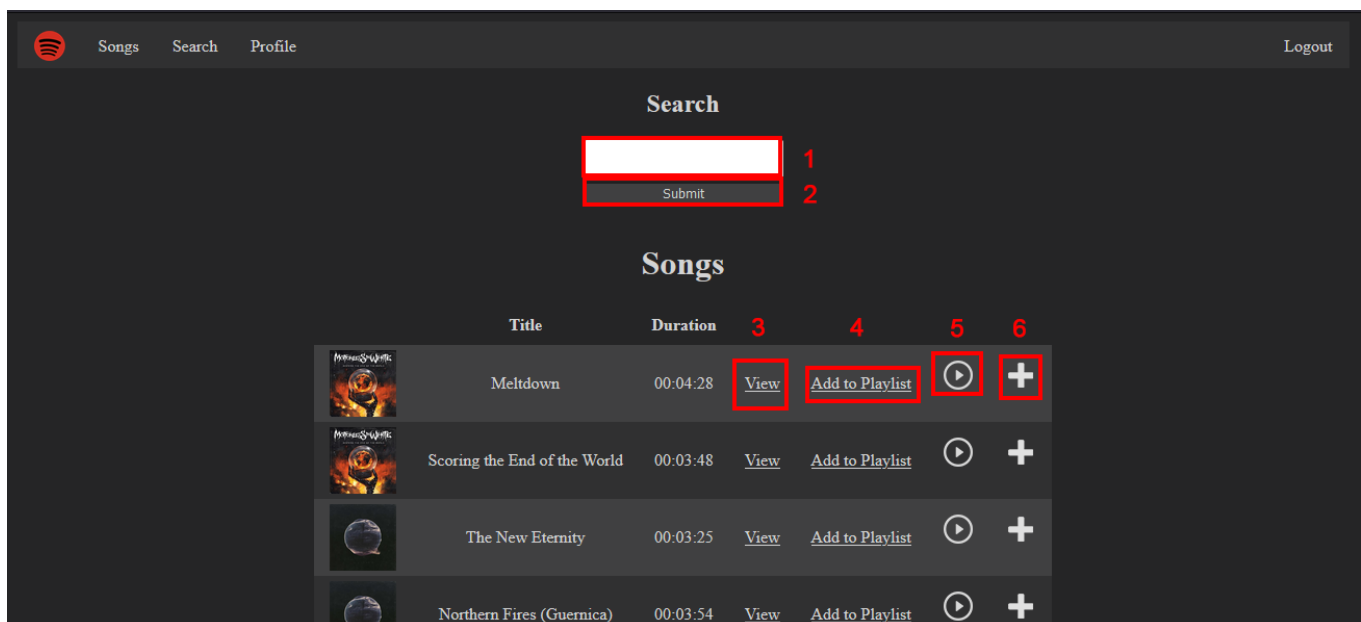
Song Page



A page dedicated to a single song. It shows metadata for that song, such as the title, number of plays and the duration. As a premium user, you are able to play the song, add it to the music queue, or add it to a playlist. You can also enable or disable different music stems that will remain in that state until you log out.

- The song's title.
- The song's cover art.
- Click to play the song.
- Click to add the song to your queue.
- Click to add the song to one of your playlists.
- Click to disable one of the stems of the song.

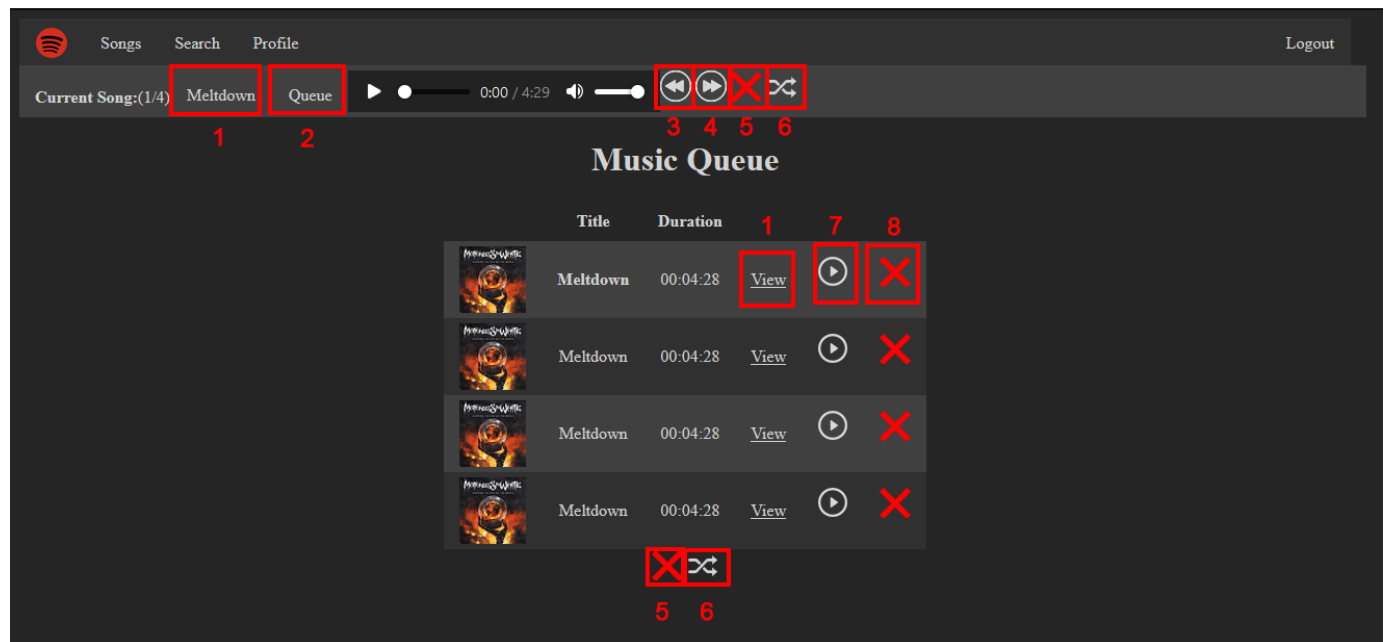
Search Page



The search page of a premium user. Similar to the search page of an unregistered user, it shows Songs, Albums, and Artists that fit the search query. Additional functionality is permitted as you can add songs to playlists and play songs or albums.

1. Click to type in a string to search for.
2. Click to submit your search. The list of songs, albums, and artists below will update to show only ones where some portion of their name matches your search query.
3. Click to view song details.
4. Click to add the song to one of your playlists.
5. Click to play the song.
6. Click to add the song to your queue.

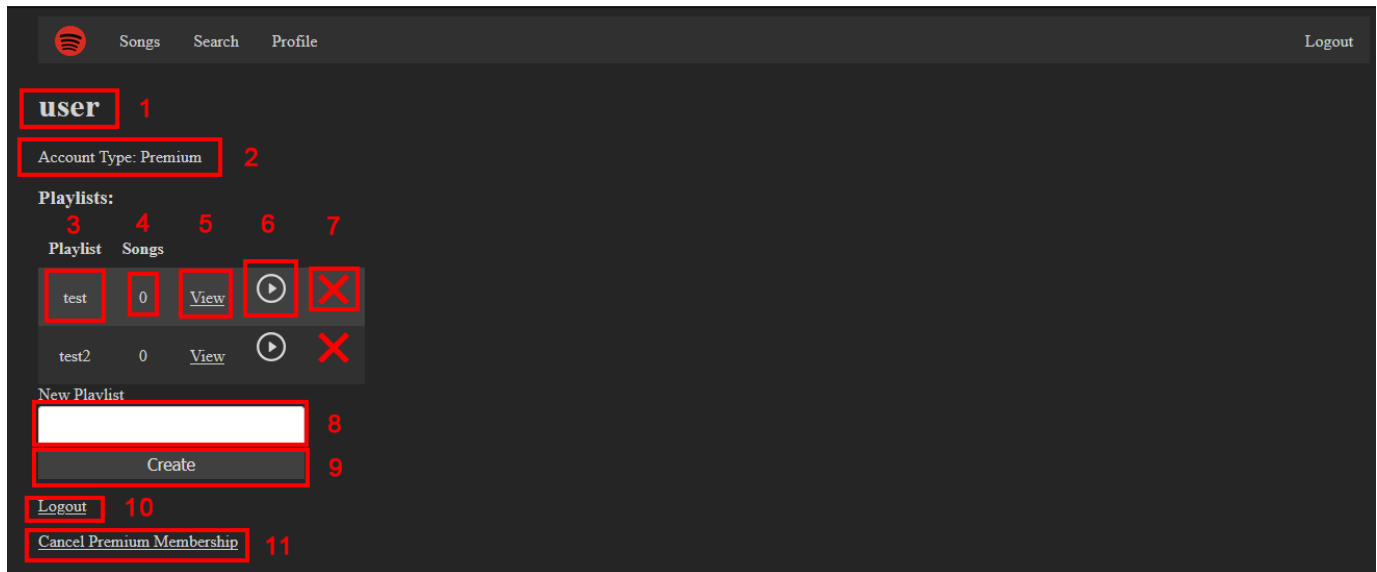
Song Queue



The current song queue. Whenever you play a song or album, or add a song to the queue, it will create a music queue that stores the list of songs you are listening to. You have several options to change the currently playing song, while also being able to shuffle and clear the queue. The queue bar at the top of the screen will persist on any other screen as long as you are logged in and there are songs in the queue.

1. The current song in the queue. Clicking it will navigate to that song's page.
2. Click to view the current queue (the page that is open in the screenshot).
3. Click this button to set the current song in the queue to the previous song, wrapping around to the last song if necessary.
4. Click this button to set the current song in the queue to the next song, wrapping around to the first song if necessary.
5. Click this button to clear the current queue and stop any music from playing.
6. Click this button to shuffle the queue, shuffling the list of songs and setting the current song to the first song of the list.
7. Click this button to play the specified song, setting the current song to the song that is being selected.
8. Click this button to remove the specified song from the queue.

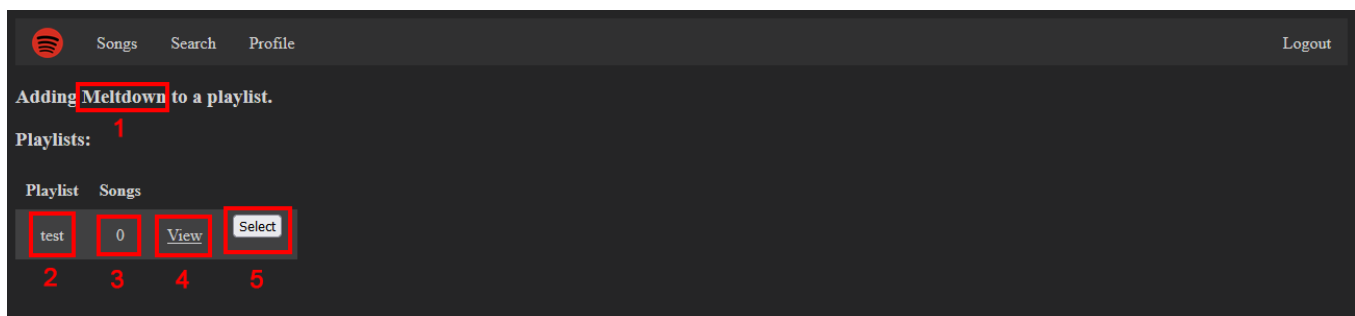
Profile Page



Your profile page as a premium user. Similar to the free user, however you have the ability to create, edit, and play playlists.

1. Your username.
2. Your account type.
3. The playlist name of a given playlist, stored in the database under this user's ID.
4. The number of songs in the playlist. A playlist is simply a list of songs.
5. Click to go to the page dedicated to that playlist. To view the associated songs and make changes to the list.
6. Click to play this playlist, clearing the current queue and setting the queue to be the list of songs in the playlist.
7. Click to delete this playlist, removing it from your account.
8. The text field to enter the name of a new playlist.
9. Click this button to create the new playlist, under the name specified in 8.
10. Click to log out of your account.
11. Click to cancel your premium membership, reverting your account from premium to free that can only view ads.

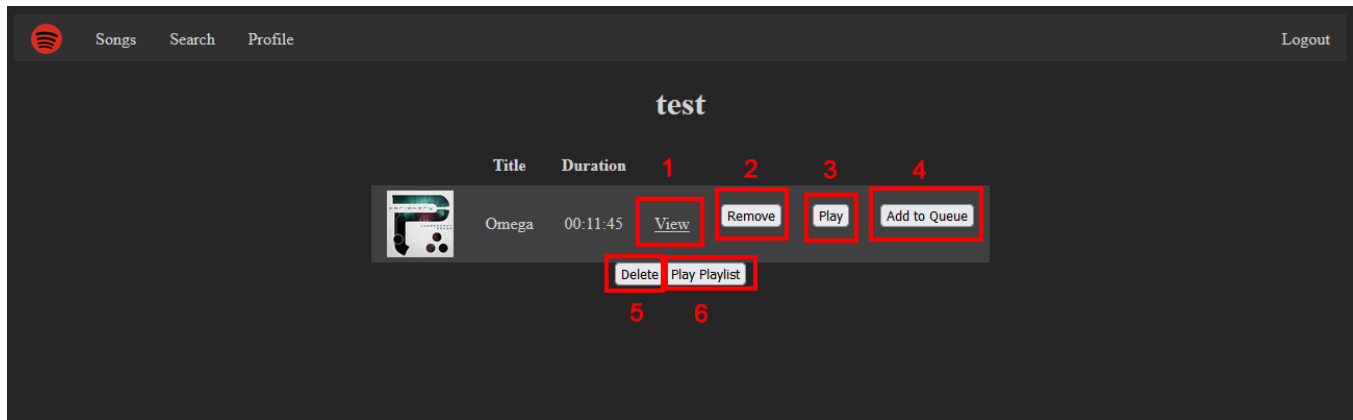
Add Song to Playlist



This menu comes up when you choose to add a song to a playlist. It will show all of the playlists attached to your account, and you can select the one to add it to. This will be stored in the database and will persist when you log out.

1. The title of the song that is currently being added to a playlist.
2. The name of a given playlist.
3. The number of songs in a playlist.
4. Click this button to view the playlist before adding the song to it.
5. Click this button to add the song to the chosen playlist.

View Playlist

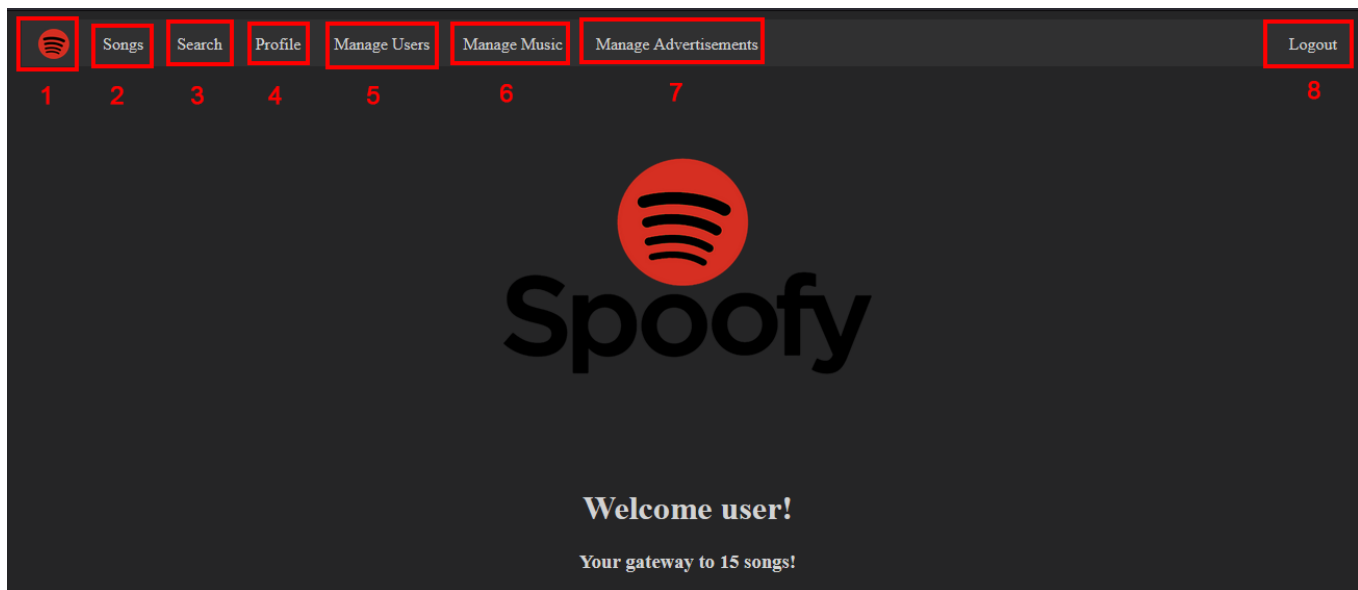


Viewing a playlist simply displays the list of songs present in it. You have options to play any song present in the playlist, or play the entire thing.

1. Click this button to view the song page of a given song.
2. Click this button to remove a song from the playlist.
3. Click this button to play this song, clearing the current queue if there is one.
4. Click this button to add the song to the end of the queue, creating a queue if necessary.
5. Click this button to delete the playlist from your account.
6. Click this button to play the whole playlist, clearing the current queue if there is one.

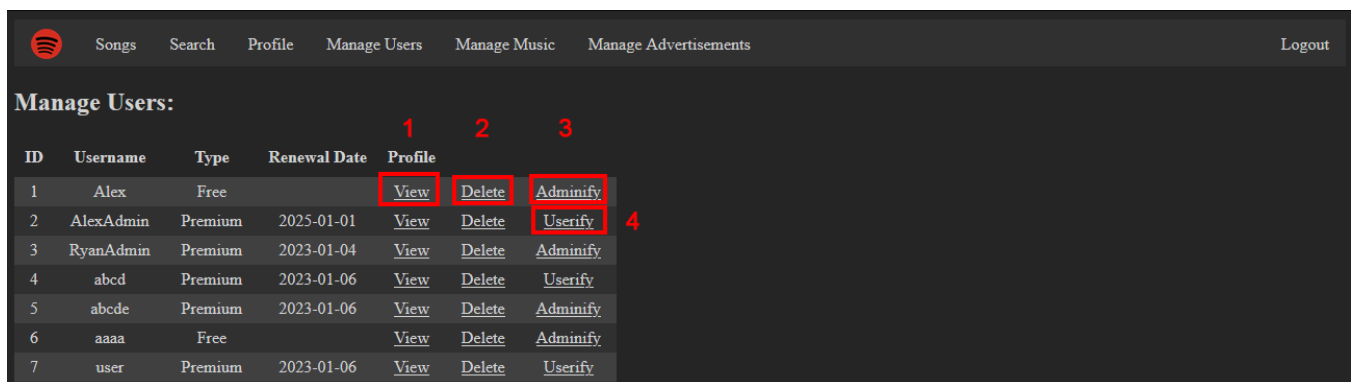
Admin

Home Page



1. Website logo. Click at any point to return to this home page.
2. Navigate to Advertisements.
3. Navigate to Search.
4. Navigate to your account's Profile.
5. Navigate to the user management page.
6. Navigate to the song management page.
7. Navigate to the advertisement management page.
8. Click to log out of your account.

Manage Users



1. Click to view the profile of the user.
2. Click to delete the user's account from the service.
3. Click to turn a user account into an administrator account.
4. Click to turn an administrator account into a user account.

Manage Songs

The screenshot shows the 'Manage Songs' page in a web application. The navigation bar at the top includes a logo, 'Songs', 'Search', 'Profile', 'Manage Users', 'Manage Music', 'Manage Advertisements', and a 'Logout' link. The main heading is 'Manage Songs:'. Below it, there are three buttons: 'Manage Artists', 'Manage Albums', and 'Add Song'. The 'Add Song' button is highlighted with a red box and labeled '3'. Below these buttons are three more buttons: 'Add Song to Album', 'Add Artist Credit', and 'Delete'. The 'Add Song to Album' button is highlighted with a red box and labeled '4'. The 'Delete' button is highlighted with a red box and labeled '6'. The 'Add Artist Credit' button is highlighted with a red box and labeled '5'. Below these buttons is a table with 15 rows of song data. The table has columns for ID, Title, Monthly Plays, Artist, Album, and two action buttons: 'Delete' and 'Reset Monthly Plays'. The 'Delete' button is highlighted with a red box and labeled '6'. The 'Reset Monthly Plays' button is highlighted with a red box and labeled '7'. The table data is as follows:

ID	Title	Monthly Plays	Artist	Album	Delete	Reset Monthly Plays
1	Meltdown	2	Motionless in White	Scoring the End of the World	Delete	Reset Monthly Plays
2	Scoring the End of the World	0	Motionless in White	Scoring the End of the World	Delete	Reset Monthly Plays
3	The New Eternity	0	Silent Planet	When the End Began	Delete	Reset Monthly Plays
4	Northern Fires (Guernica)	0	Silent Planet	When the End Began	Delete	Reset Monthly Plays
5	Afterdusk	0	Silent Planet	When the End Began	Delete	Reset Monthly Plays
6	Share the Body	0	Silent Planet	When the End Began	Delete	Reset Monthly Plays
7	Firstborn (Ya'aburnee)	0	Silent Planet	When the End Began	Delete	Reset Monthly Plays
8	22 Faces	0	Periphery	Juggernaut: Alpha	Delete	Reset Monthly Plays
9	Omega	0	Periphery	Juggernaut: Omega	Delete	Reset Monthly Plays
10	The Pot	0	Tool	10,000 Days	Delete	Reset Monthly Plays
11	Rosetta Stoned	0	Tool	10,000 Days	Delete	Reset Monthly Plays
12	Elysium	0	Invent Animate	Elysium	Delete	Reset Monthly Plays
13	Blinded	0	As I Lay Dying	Shaped by Fire	Delete	Reset Monthly Plays
14	Stabbing in the Dark	0	Ice Nine Kills	The Silver Scream	Delete	Reset Monthly Plays
15	A Grave Mistake	0	Ice Nine Kills	The Silver Scream	Delete	Reset Monthly Plays


1. Navigate to the artist management page.
2. Navigate to the album management page.
3. Click to add a new song.
4. Click to add an existing song to an existing album.
5. Click to give an existing artist credit for an existing song.
6. Click to delete the song.
7. Click to reset the song's monthly plays.

Add Song

The screenshot shows the 'Add a Song' form in a web application. The navigation bar at the top includes a logo, 'Songs', 'Search', 'Profile', 'Manage Users', 'Manage Music', 'Manage Advertisements', and a 'Logout' link. The main heading is 'Add a Song'. Below it, there is a label 'Fill in song information:'. The form has three input fields: 'Song Title', 'Duration', and 'Song File Path'. The 'Song Title' field is highlighted with a red box and labeled '1'. The 'Duration' field is highlighted with a red box and labeled '2'. The 'Song File Path' field is highlighted with a red box and labeled '3'. Below these fields is a 'Submit' button, highlighted with a red box and labeled '4'. Below the 'Submit' button are two buttons: 'Reset' and 'Return to Manage Songs'. The 'Reset' button is highlighted with a red box and labeled '5'. The 'Return to Manage Songs' button is highlighted with a red box and labeled '6'.

1. Click to type in the song's title.
2. Click to type in the song's duration in hh:mm:ss format.
3. Click to type in the file path to the song audio file.
4. Click to add the song to the database.
5. Click to reset the text boxes if you want to start fresh.
6. Navigate back to the song management page.

Add Song to Album

 [Songs](#) [Search](#) [Profile](#) [Manage Users](#) [Manage Music](#) [Manage Advertisements](#) [Logout](#)

Add Song to Album

SongID

AlbumID

Add to Album

Return to Manage Songs

1

2

3

4

Songs:


ID	Title	Album
1	Meltdown	Scoring the End of the World
2	Scoring the End of the World	Scoring the End of the World
3	The New Eternity	When the End Began
4	Northern Fires (Guernica)	When the End Began
5	Afterdusk	When the End Began
6	Share the Body	When the End Began
7	Firstborn (Ya'aburnee)	When the End Began
8	22 Faces	Juggernaut: Alpha
9	Omega	Juggernaut: Omega
10	The Pot	10,000 Days
11	Rosetta Stoned	10,000 Days
12	Elysium	Elysium
13	Blinded	Shaped by Fire
14	Stabbing in the Dark	The Silver Scream
15	A Grave Mistake	The Silver Scream

Albums:

ID	Title
1	Scoring the End of the World
2	When the End Began
3	Juggernaut: Alpha
4	Juggernaut: Omega
5	10,000 Days
6	Elysium
7	Shaped by Fire
8	The Silver Scream

1. Click to input the ID number of the song you'd like to add to the album (listed below for reference).
2. Click to input the ID number of the album you'd like the song to be added to (listed below for reference).
3. Click to add the song to the album.
4. Navigate back to the song management page.

Add Song Credit


[Songs](#)
[Search](#)
[Profile](#)
[Manage Users](#)
[Manage Music](#)
[Manage Advertisements](#)
[Logout](#)

Add Artist Credit

Songs:


ID	Title	Artist
1	Meltdown	Motionless in White
2	Scoring the End of the World	Motionless in White
3	The New Eternity	Silent Planet
4	Northern Fires (Guernica)	Silent Planet
5	Afterdusk	Silent Planet
6	Share the Body	Silent Planet
7	Firstborn (Ya'aburnee)	Silent Planet
8	22 Faces	Periphery
9	Omega	Periphery
10	The Pot	Tool
11	Rosetta Stoned	Tool
12	Elysium	Invent Animate
13	Blinded	As I Lay Dying
14	Stabbing in the Dark	Ice Nine Kills
15	A Grave Mistake	Ice Nine Kills

Artists:




ID	Name
1	Motionless in White
2	Silent Planet
3	Periphery
4	Tool
5	Invent Animate
6	As I Lay Dying
7	Ice Nine Kills

1. Click to input the ID number of the song you'd like to credit the artist for (listed below for reference).
2. Click to input the ID number of the artist you'd like to give song credit to (listed below for reference).
3. Click to add the credit for the song to the artist.
4. Navigate back to the song management page.

Manage Artist


[Songs](#)
[Search](#)
[Profile](#)
[Manage Users](#)
[Manage Music](#)
[Manage Advertisements](#)
[Logout](#)

Manage Artists:

ID	Name	About	Profile Picture	File Paths	
1	Motionless in White	Motionless in White is an American heavy metal band from Scranton, Pennsylvania. Formed in 2004, the band consists of lead vocalist Chris "Motionless" Cerulli, guitarists Ryan Sitkowski and Ricky "Horror" Olson, drummer Vinny Mauro and bassist Justin Morrow. The band has stated that their band name derived from the Eighteen Visions song "Motionless and White".		profiles/motionless_in_white.png banners/motionless_in_white.png	<input type="button" value="Delete"/> <input type="button" value="Edit"/> <input type="button" value="Remove Songs or Albums"/>
2	Silent Planet	Silent Planet is an American metalcore band formed in Azusa, California, in 2009. Their name is derived from C. S. Lewis' science fiction novel Out of the Silent Planet. The group consists of vocalist Garrett Russell, guitarist Mitchell Stark, bassist Thomas Freckleton and drummer Alex Camarena.		profiles/silent_planet.png banners/silent_planet.png	Delete Edit Remove Songs or Albums
3	Periphery	Periphery is an American progressive metal band formed in Washington, D.C. in 2005. Their musical style has been described as progressive metal, djent, and progressive metalcore. They are considered one of the pioneers of the djent movement within progressive metal. They have also received a Grammy nomination.		profiles/periphery.png banners/periphery.png	Delete Edit Remove Songs or Albums

1. Navigate to the song management page.

2. Navigate to the album management page.
3. Click to add a new artist.
4. Click to delete the artist from the database.
5. Click to edit the artist's details
6. Click to remove a song or an album from being associated with the artist.

Add Artist

The screenshot shows a web application interface for adding a new artist. At the top is a navigation bar with links: Songs, Search, Profile, Manage Users, Manage Music, Manage Advertisements, and Logout. Below the navigation bar is the title 'Add an Artist' and the instruction 'Fill in artist information:'. The form contains several input fields and buttons, each annotated with a red number:

- 1**: Points to the 'Artist Name' text input field.
- 2**: Points to the 'About' text area.
- 3**: Points to the 'Path to Profile Picture' text input field, which contains the placeholder text 'profiles/<artist>.png'.
- 4**: Points to the 'Path to Banner Picture' text input field, which contains the placeholder text 'banners/<artist>.png'.
- 5**: Points to the 'Submit' button.
- 6**: Points to the 'Reset' button.
- 7**: Points to the 'Return to Manage Artists' button.

1. Click to type the name of the new artist.
2. Click to type a brief description of the artist.
3. Click to type the file path to the profile picture for the artist.
4. Click to type the file path to the banner picture for the artist.
5. Click to add the new artist to the database.
6. Click to reset the text boxes if you want to start fresh.
7. Navigate back to the artist management page.

Manage Album

The screenshot shows the 'Manage Albums' page. At the top is a navigation bar with links: Songs, Search, Profile, Manage Users, Manage Music, Manage Advertisements, and Logout. Below the navigation bar is a section titled 'Manage Albums:'. Inside this section, there are four numbered red boxes: 1. 'Manage Artists', 2. 'Manage Songs', 3. 'Add Album', and 4. 'Add Album Credit'. Below these are two tabs: 'Albums' (selected) and 'Songs'. The main content is a table with columns: ID, Title, Artist Name, Single?, Cover Art, Release Date, Genre, and three action buttons: Delete, Edit, and Remove Song. The table contains four rows of album data. The first row is 'Scoring the End of the World' by Motionless in White, released on 2022-06-10, Metal genre. The second row is 'When the End Began' by Silent Planet, released on 2018-11-02, Metal genre. The third row is 'Juggernaut: Alpha' by Periphery, released on 2015-01-27, Djent genre. The fourth row is 'Juggernaut: Omega' by Periphery, released on 2015-01-27, Djent genre. The action buttons for each row are 'Delete', 'Edit', and 'Remove Song'.

ID	Title	Artist Name	Single?	Cover Art	Release Date	Genre	5	6	7
1	Scoring the End of the World	Motionless in White	0		2022-06-10	Metal	Delete	Edit	Remove Song
2	When the End Began	Silent Planet	0		2018-11-02	Metal	Delete	Edit	Remove Song
3	Juggernaut: Alpha	Periphery	0		2015-01-27	Djent	Delete	Edit	Remove Song
4	Juggernaut: Omega	Periphery	0		2015-01-27	Djent	Delete	Edit	Remove Song

1. Navigate to the artist management page.
2. Navigate to the song management page.
3. Click to add a new album.
4. Click to give an artist writing credit for an album.
5. Click to delete the album from the database.
6. Click to edit the album's details.
7. Click to remove a song from the album.

Add Album

The screenshot shows the 'Add an Album' form. At the top is a navigation bar with links: Songs, Search, Profile, Manage Users, Manage Music, Manage Advertisements, and Logout. Below the navigation bar is a section titled 'Add an Album - Spooify'. Inside this section, there is a form titled 'Add an Album'. The form has a label 'Fill in album information:'. The form fields are: Album Title, Single or Not? (1 or 0), Path to Cover Art, Release Date, Genre, and a Submit button. There are also two buttons at the bottom: Reset and Return to Manage Albums. The form fields are numbered 1 through 8 with red boxes: 1. Album Title, 2. Single or Not? (1 or 0), 3. Path to Cover Art, 4. Release Date, 5. Genre, 6. Submit, 7. Reset, and 8. Return to Manage Albums.

Fill in album information:

Album Title

Single or Not? (1 or 0)

Path to Cover Art

Release Date

Genre

Submit

Reset

Return to Manage Albums

1. Click to type the title of the new album.
2. Click to type a 1 if the new album is a single, or a 0 if it is not a single.
3. Click to type the file path to the album's cover art.
4. Click to type the release date of the album in yyyy-mm-dd format.
5. Click to type the genre of the album.

- Click to add the new album to the database.
- Click to reset the text boxes if you want to start fresh.
- Navigate back to the album management page.

Add Album Credit

Add Album Credit

AlbumID 1

ArtistID 2

Add Credit 3

Return to Manage Albums 4

Albums:			Artists:	
ID	Title	Artist	ID	Name
1	Scoring the End of the World	Motionless in White	1	Motionless in White
2	When the End Began	Silent Planet	2	Silent Planet
3	Juggernaut: Alpha	Periphery	3	Periphery
4	Juggernaut: Omega	Periphery	4	Tool
5	10,000 Days	Tool	5	Invent Animate
6	Elysium	Invent Animate	6	As I Lay Dying
7	Shaped by Fire	As I Lay Dying	7	Ice Nine Kills
8	The Silver Scream	Ice Nine Kills		

- Click to input the ID number of the album you'd like to credit the artist for (listed below for reference).
- Click to input the ID number of the artist you'd like credit for the album. (listed below for reference).
- Click to credit the artist for the album.
- Navigate back to the album management page.

Manage Ads

Manage Advertisements

Duration 1

Company 2

SoundFile 3

Submit 4

AdID	Duration	Company	SoundFile	Delete
1	01:00:01	Live Nation	ads/live_nation_0.mp3	Delete 5
2	00:04:21	Spotify	ads/spotify_0.mp3	Delete
3	00:03:51	Apple Music	ads/apple_music_0.mp3	Delete

- Click to type the duration of a new ad in hh:mm:ss format.
- Click to type the name of the company a new ad is promoting.
- Click to type the file path to the sound file of a new ad.
- Click to add a new advertisement to the database.
- Click to delete the advertisement from the database.

Appendix

Below is our mysql sample data. This sample data can be generated from a python script available in the github repository and usage is detailed in the readme for that repo.

https://github.com/alexs2112/CPSC471_Spoofy

Refreshing the default database:

```
C:\CPSC471_Spoofy>python InitDB/initialize.py refresh
Connection to SpoofyDB established.
Dropping tables in SpoofyDB.
Creating tables in SpoofyDB.
Populating tables with default data.
```

MySQL output from the MySQL 8.0 Command Line Client:

```
mysql> USE SpoofyDB;
Database changed
mysql> SHOW TABLES;
+-----+
| Tables_in_spoofydb |
+-----+
| admin               |
| advertisement       |
| album               |
| album_contains      |
| artist              |
| distributor          |
| has                  |
| playlist             |
| playlist_contains   |
| represents           |
| song                 |
| stem                 |
| user                 |
| writes               |
+-----+
14 rows in set (0.02 sec)

mysql> SELECT * FROM USER;
+-----+-----+-----+-----+-----+
| UserID | Username | PasswordHash | IsPremium | SubRenewDate |
+-----+-----+-----+-----+-----+
| 1      | Free     | <hash>        | 0         | NULL         |
| 2      | Admin    | <hash>        | 1         | 2025-01-01   |
| 3      | Free2    | <hash>        | 1         | 2023-01-04   |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)z

mysql> SELECT * FROM ADMIN;
+-----+
| AdminID |
+-----+
| 2       |
+-----+
1 row in set (0.01 sec)
```

```
mysql> SELECT SongID, TotalPlays, MonthlyPlays, Title, Duration FROM SONG;
```

SongID	TotalPlays	MonthlyPlays	Title	Duration
1	0	0	Meltdown	00:04:28
2	0	0	Scoring the End of the World	00:03:48
3	0	0	The New Eternity	00:03:25
4	0	0	Northern Fires (Guernica)	00:03:54
5	0	0	Afterdusk	00:03:55
6	0	0	Share the Body	00:03:33
7	0	0	Firstborn (Ya'aburnee)	00:05:07
8	0	0	22 Faces	00:03:51
9	0	0	Omega	00:11:45
10	0	0	The Pot	00:06:18
11	0	0	Rosetta Stoned	00:11:13
12	0	0	Elysium	00:04:49
13	0	0	Blinded	00:03:22
14	0	0	Stabbing in the Dark	00:04:40
15	0	0	A Grave Mistake	00:03:04

15 rows in set (0.00 sec)

```
mysql> SELECT SongID, MusicFILE FROM SONG;
```

SongID	MusicFILE
1	songs/motionless_in_white/meltdown.mp3
2	songs/motionless_in_white/scoring_the_end_of_the_world.mp3
3	songs/silent_planet/the_new_eternity.mp3
4	songs/silent_planet/northern_fires.mp3
5	songs/silent_planet/afterdusk.mp3
6	songs/silent_planet/share_the_body.mp3
7	songs/silent_planet/firstborn.mp3
8	songs/periphery/22_faces.mp3
9	songs/periphery/omega.mp3
10	songs/tool/the_pot.mp3
11	songs/tool/rosetta_stoned.mp3
12	songs/invent_animate/elysium.mp3
13	songs/as_i_lay_dying/blinded.mp3
14	songs/ice_nine_kills/stabbing_in_the_dark.mp3
15	songs/ice_nine_kills/a_grave_mistake.mp3

15 rows in set (0.00 sec)

```
mysql> SELECT * FROM STEM;
```

SongID	StemNo	MusicFile
1	0	stems/motionless_in_white/meltdown/0.mp3
1	1	stems/motionless_in_white/meltdown/1.mp3
2	0	stems/motionless_in_white/scoring_the_end_of_the_world/0.mp3
2	1	stems/motionless_in_white/scoring_the_end_of_the_world/1.mp3
2	2	stems/motionless_in_white/scoring_the_end_of_the_world/2.mp3
2	3	stems/motionless_in_white/scoring_the_end_of_the_world/3.mp3
3	0	stems/silent_planet/the_new_eternity/0.mp3
3	1	stems/silent_planet/the_new_eternity/1.mp3
3	2	stems/silent_planet/the_new_eternity/2.mp3
4	0	stems/silent_planet/northern_fires/0.mp3
4	1	stems/silent_planet/northern_fires/1.mp3
4	2	stems/silent_planet/northern_fires/2.mp3
5	0	stems/silent_planet/afterdusk/0.mp3
5	1	stems/silent_planet/afterdusk/1.mp3
5	2	stems/silent_planet/afterdusk/2.mp3
5	3	stems/silent_planet/afterdusk/3.mp3
6	0	stems/silent_planet/share_the_body/0.mp3
6	1	stems/silent_planet/share_the_body/1.mp3
7	0	stems/silent_planet/firstborn/0.mp3
7	1	stems/silent_planet/firstborn/1.mp3
7	2	stems/silent_planet/firstborn/2.mp3
7	3	stems/silent_planet/firstborn/3.mp3
8	0	stems/periphery/22_faces/0.mp3
8	1	stems/periphery/22_faces/1.mp3
8	2	stems/periphery/22_faces/2.mp3
9	0	stems/periphery/omega/0.mp3
9	1	stems/periphery/omega/1.mp3
9	2	stems/periphery/omega/2.mp3
9	3	stems/periphery/omega/3.mp3
9	4	stems/periphery/omega/4.mp3
10	0	stems/tool/the_pot/0.mp3
10	1	stems/tool/the_pot/1.mp3
10	2	stems/tool/the_pot/2.mp3
11	0	stems/tool/rosetta_stoned/0.mp3
11	1	stems/tool/rosetta_stoned/1.mp3
11	2	stems/tool/rosetta_stoned/2.mp3
11	3	stems/tool/rosetta_stoned/3.mp3
11	4	stems/tool/rosetta_stoned/4.mp3
12	0	stems/invent_animate/elysium/0.mp3
12	1	stems/invent_animate/elysium/1.mp3
12	2	stems/invent_animate/elysium/2.mp3
13	0	stems/as_i_lay_dying/blinded/0.mp3
13	1	stems/as_i_lay_dying/blinded/1.mp3
13	2	stems/as_i_lay_dying/blinded/2.mp3
13	3	stems/as_i_lay_dying/blinded/3.mp3
14	0	stems/ice_nine_kills/stabbing_in_the_dark/0.mp3
14	1	stems/ice_nine_kills/stabbing_in_the_dark/1.mp3
15	0	stems/ice_nine_kills/a_grave_mistake/0.mp3
15	1	stems/ice_nine_kills/a_grave_mistake/1.mp3
15	2	stems/ice_nine_kills/a_grave_mistake/2.mp3

```
50 rows in set (0.01 sec)
```

```
mysql> SELECT * FROM PLAYLIST;
+-----+-----+-----+
| PlaylistID | PlaylistName | CreatorID |
+-----+-----+-----+
|          1 | Playlist     |          2 |
+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT * FROM PLAYLIST_CONTAINS;
+-----+-----+
| PlaylistID | SongID |
+-----+-----+
|          1 |      3 |
|          1 |      5 |
|          1 |      8 |
+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM ADVERTISEMENT;
+-----+-----+-----+-----+
| AdID | Duration | Company      | SoundFile              |
+-----+-----+-----+-----+
|     1 | 01:00:01 | Live Nation | ads/live_nation_0.mp3 |
|     2 | 00:04:21 | Spotify     | ads/spotify_0.mp3     |
|     3 | 00:03:51 | Apple Music | ads/apple_music_0.mp3 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM DISTRIBUTOR;
+-----+-----+
| DistributorID | DistributorName |
+-----+-----+
|              1 | BigDistribute   |
|              2 | Yeet            |
|              3 | DistributorA    |
|              4 | Diztributor     |
+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> SELECT ArtistID, Name, TotalPlays, MonthlyPlays FROM ARTIST;
+-----+-----+-----+-----+
| ArtistID | Name                | TotalPlays | MonthlyPlays |
+-----+-----+-----+-----+
|         1 | Motionless in White |          0 |            0 |
|         2 | Silent Planet       |          0 |            0 |
|         3 | Periphery           |          0 |            0 |
|         4 | Tool                |          0 |            0 |
|         5 | Invent Animate      |          0 |            0 |
|         6 | As I Lay Dying      |          0 |            0 |
|         7 | Ice Nine Kills      |          0 |            0 |
+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

Note: About, ProfilePicture, BannerPicture omitted due to length

```
mysql> SELECT * FROM REPRESENTS;
```

ArtistID	DistributorID
1	1
2	1
3	1
4	2
5	3
6	3
7	4

```
7 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM WRITES;
```

SongID	ArtistID
1	1
2	1
3	2
4	2
5	2
6	2
7	2
8	3
9	3
10	4
11	4
12	5
13	6
14	7
15	7

```
15 rows in set (0.00 sec)
```

```
mysql> SELECT AlbumID, IsSingle, ReleaseDate, Genre, Title FROM ALBUM;
```

AlbumID	IsSingle	ReleaseDate	Genre	Title
1	0	2022-06-10	Metal	Scoring the End of the World
2	0	2018-11-02	Metal	When the End Began
3	0	2015-01-27	Djent	Juggernaut: Alpha
4	0	2015-01-27	Djent	Juggernaut: Omega
5	0	2006-04-28	Rock	10,000 Days
6	1	2022-11-08	Metal	Elysium
7	0	2019-09-20	Metal	Shaped by Fire
8	0	2018-10-05	Metal	The Silver Scream

```
8 rows in set (0.00 sec)
```

```
mysql> SELECT ALBUMID, CoverArt FROM ALBUM;
```

ALBUMID	CoverArt
1	covers/scoring_the_end_of_the_world.png
2	covers/when_the_end_began.png
3	covers/juggernaut_alpha.png
4	covers/juggernaut_omega.png
5	covers/10000_days.png
6	covers/elysium.png
7	covers/shaped_by_fire.png
8	covers/the_silver_scream.png

```
8 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM HAS;
```

AlbumID	ArtistID
1	1
2	2
3	3
4	3
5	4
6	5
7	6
8	7

```
8 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM ALBUM_CONTAINS;
```

AlbumID	SongID
1	1
1	2
2	3
2	4
2	5
2	6
2	7
3	8
4	9
5	10
5	11
6	12
7	13
8	14
8	15

```
15 rows in set (0.00 sec)
```

References

Learning Material:

Lecture slides from module 4, parts A and B
<https://www.w3schools.com/php/>
<https://www.php.net/docs.php>
<https://www.tutorialspoint.com/php/index.html>

General Help:

<https://httpd.apache.org/docs/2.4/platform/windows.html>
https://www.w3schools.com/css/css_background.asp
https://www.w3schools.com/css/css_navbar_horizontal.asp
https://www.w3schools.com/css/css_table_style.asp
https://www.w3schools.com/css/css_table.asp
<https://stackoverflow.com/questions/34011559/how-do-i-add-my-logo-to-my-website-using-html>
<https://stackoverflow.com/questions/8090195/how-do-i-align-in-my-image-to-move-it-vertically-upcss-html>
<https://www.geeksforgeeks.org/how-to-change-an-input-button-image-using-css/>
<https://www.php.net/manual/en/function.empty.php>
<https://stackoverflow.com/a/369761>

Tools:

<https://www.appserv.org/en/>
<https://discord.com/> (group discussion and virtual meetings)
<https://www.overleaf.com/> (latex formatting)
<https://app.diagrams.net/> (diagram creation)
<https://github.com/> (git repository host)

Resources:

<https://twitter.com/> (profile and banner pics for artists)
<https://en.wikipedia.org/> (artist about section, album covers)