

# Big Binary Brand

TrackSpot

Spring 2018

## 1. Overview

Our application TrackSpot allows regular users and critics to post reviews for songs and albums. Users can also add artists, albums, and songs to the platform in order for others to access and review them. For each album and song, our app aggregates reviews separated into regular user and critic categories, so that a viewer can easily view discrepancies in review scores.

Additionally, our app shows an overview of recent items on the front page, and allows users to search everything in the system. Our app is innovative since it condenses many reviews for music into a single score. In addition, our platform allows professional and amateur reviewers to post or mirror their reviews into a single location, instead of the current situation in which reviewers post reviews to many different sources.

## 2. Team Members

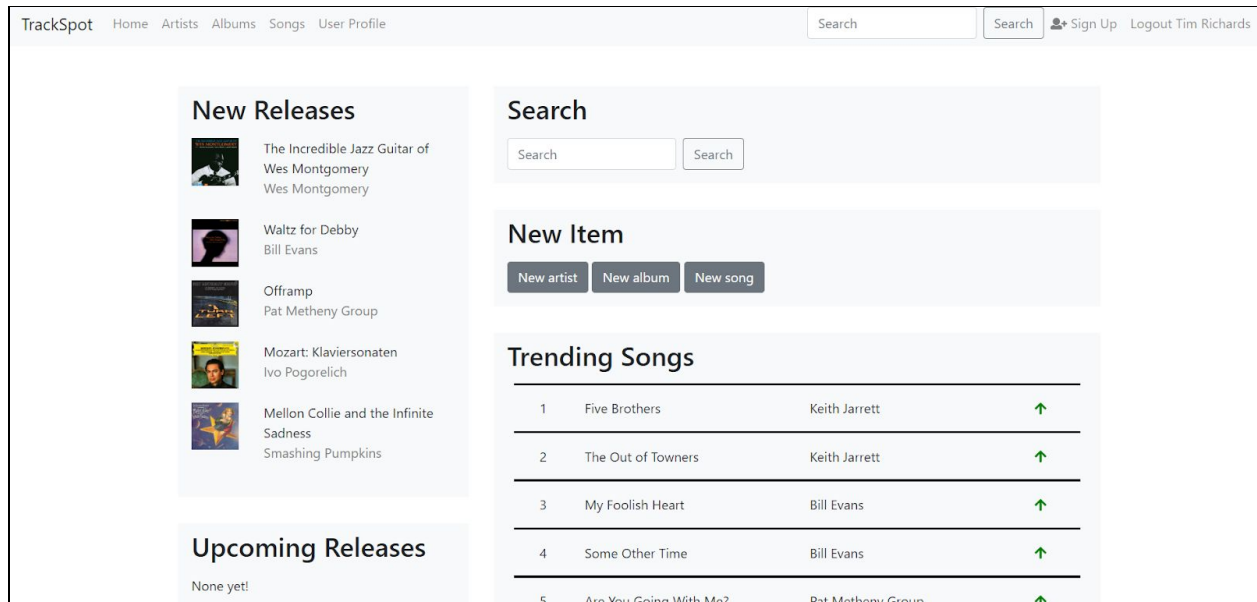
John Sweeney, Tommy Do, Aric Huang, Cameron Scigliano, Dan MacDonald, DongWon Park

## 3. GitHub Repository

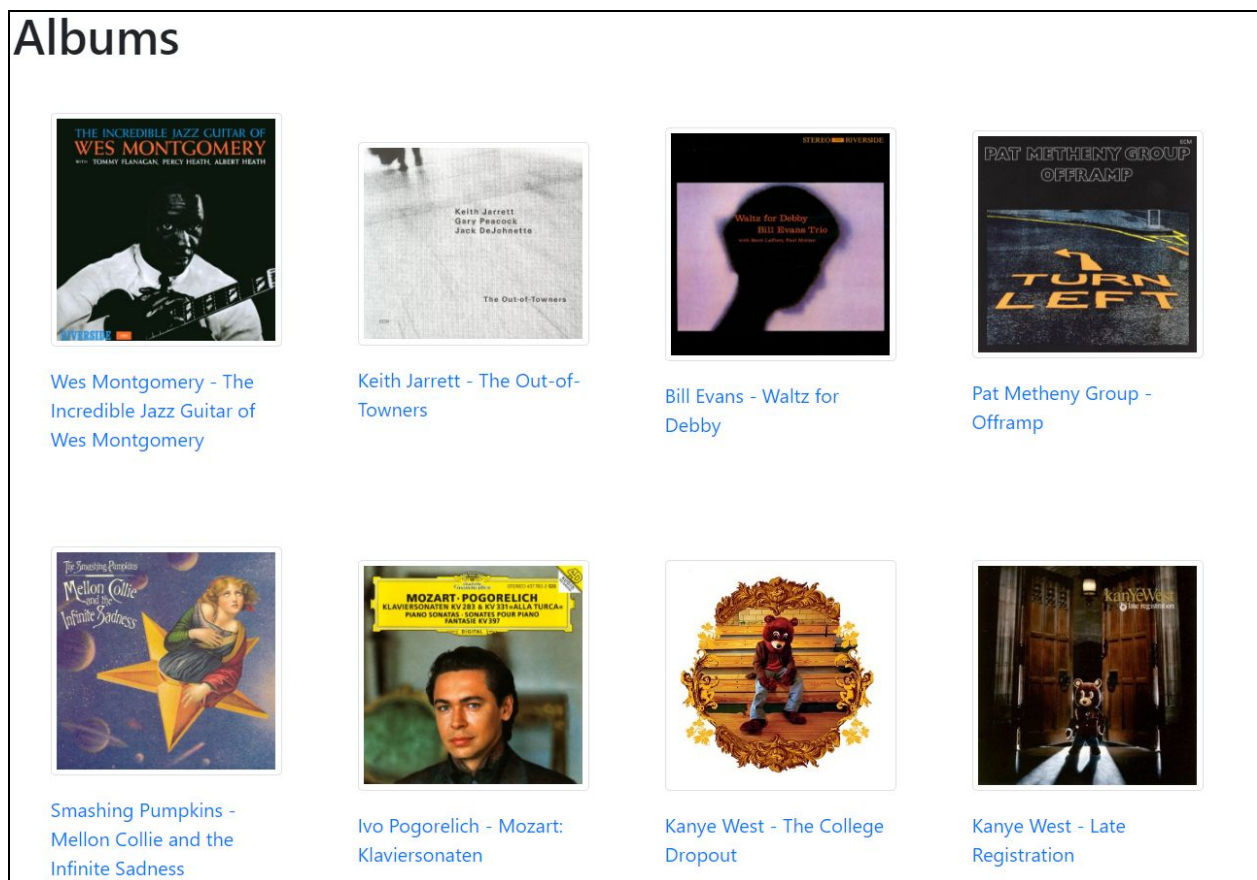
<https://github.com/jswny/trackspot>

## 4. User Interface

Our UI basically has 5 main sections including Home, Artists, Albums, Songs and User Profile.

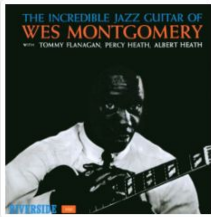


**index()** in *views.py* (Home view) - This is the main page of our app which shows summarized information including New Releases, Trending Songs, Upcoming Releases and Search feature.



**album\_main()** in *views.py* (Album\_main view) - This view shows all current registered album in the database and shows its individual thumbnail.

The Incredible Jazz Guitar of Wes Montgomery
Wes Montgomery



Overall Score  
93.8 / 100

The Incredible Jazz Guitar of Wes Montgomery is the fourth album by American jazz guitarist Wes Montgomery. Most of its tracks are considered to be the best examples of Wes Montgomery's two distinguishing techniques - "thumb picking" and the use of octaves.

Song List

1. Airegin

2. D-Natural Blues

3. West Coast Blues

Write a Review

Critic Score : 94.0 / 100


Review	Song	Review	Score
I'm also a critic. I like this song, too.	D-Natural Blues	mason	94

User Score : 93.7 / 100


Review	Song	User	Score
Love his thumb tone!	D-Natural Blues	john_doe	100
Airegin? Nigeria? Good interpretation.	Airegin	bob_smith	89
I'm a critic. This song is good.	West Coast Blues	john_doe	92

**album** in `views.py` (Album view) - This view shows detailed information of an album with aggregate score of reviews and also each critic/user score and reviews as well.

Wes Montgomery




Albums

Album	Critic Score	User Score
 The Incredible Jazz Guitar of Wes Montgomery	94	94


Bio


John Leslie "Wes" Montgomery (March 6, 1923 – June 15, 1968) was an American jazz guitarist. He is widely considered one of the major jazz guitarists, emerging after such seminal figures as Django Reinhardt and Charlie Christian and influencing countless others.


Top Songs


D-Natural Blues

Related Artists


Wes Montgomery


Bill Evans



Pat Metheny Group

**artist()** in `views.py` (Artist view) - The Artist view shows the information of an artist including name, profile picture, bio, top songs and related artists.

### Are You Going With Me?

Pat Metheny Group

Jazz



Description: "Are You Going With Me?" is a song by the Pat Metheny Group; it was composed by Metheny and keyboardist Lyle Mays. It was originally recorded in October 1981 for the band's third studio album Offramp.

Link to Album is: [Offramp](#)

**Other Songs in the Album:**

[Are You Going With Me?](#)

[James](#)

### Write a Review

**Critic Score: 90/100**


Review	Critic	Score
I am going with you, Pat!	<a href="#">Alex Mason</a>	90

**Critic Score: No Reviews**

Review	User	Score
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**song()** in *views.py* (Song view) - The Song view shows a detailed information of a song including its critic/user reviews and a description. This shows also another songs in its associated album.

## Profile



Name: John Doe

Location: Amherst, MA

Number of Reviews: 5

I love TrackSpot!

## Highest-Rated Songs

Name	Artist	Play
<a href="#">Airegin</a>	<a href="#">Wes Montgomery</a>	▶
<a href="#">Waltz for Debby</a>	<a href="#">Bill Evans</a>	▶
<a href="#">The Incredible Jazz Guitar of Wes Montgomery</a>	<a href="#">Wes Montgomery</a>	▶
<a href="#">The Incredible Jazz Guitar of Wes Montgomery</a>	<a href="#">Wes Montgomery</a>	▶
<a href="#">Piano Sonata in G major, KV 283</a>	<a href="#">Ivo Pogorelich</a>	▶

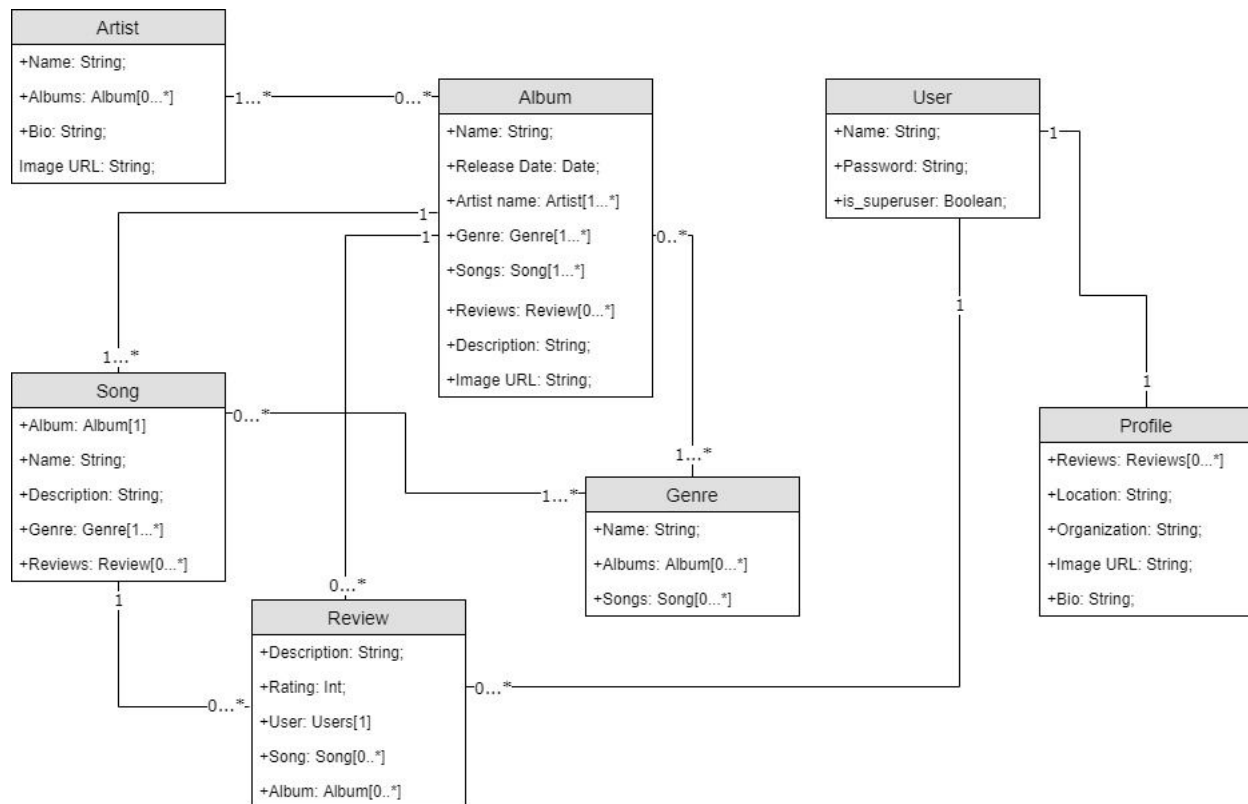
## Reviews

Song/Album	Review	Rating
<a href="#">The Incredible Jazz Guitar of Wes Montgomery</a>	Love his thumb tone!	100
<a href="#">Waltz for Debby</a>	Calm, peaceful and bluesy.	75
<a href="#">The Incredible Jazz Guitar of Wes Montgomery</a>	I'm a critic. This song is good.	92
<a href="#">Airegin</a>	It was an okay song	45
<a href="#">Piano Sonata in G major, KV 283</a>	Mozart was an excellent musician	100

**user()** in *views.py* (User view) - The User view shows critic's or user's information with his/her picture, bio, location and associated reviews in the database. In this page, all reviews the critic or the user wrote shows up altogether in the list.

## 5. Data Model

For our Data Model, we chose to create six main models. The User model represents both critics and trackspotters along with attributes such as username, password, and has an associated profile. Profiles contain our own user info, such as reviews, description, location, and profile pictures. Reviews would have its own attributes and belong to a user and song/album. An Album would have a number of songs and reviews and have its own attributes. Songs would have its attributes and reviews. An Artist would have albums along with their own attributes. And a Genre would be assigned to songs and albums.



## 6. URL Routes

Url Mapping	Description	Permissions/Authentication
trackspot/album/	List of albums	None
trackspot/album/<int:pk>	Details about a specific album	None
trackspot/artist/<int:pk>	Details about a specific artist	None
trackspot/song/<int:pk>	Details and reviews for a specific song	None
trackspot/user/<int:pk>	Details about a specific user	Need to be logged in to have access to “User Profile”
trackspot/login/<int:pk>	Login page	
trackspot/user/edit_trackspotter	Form to edit profile page of the logged in regular user	Need to be logged in
trackspot/user/edit_critic	Form to edit profile page of the logged in critic	Need to be logged in
trackspot/album/create/	Form to create a new album	None
trackspot/album/<int:pk>/update/	Form to update an albums details	None
trackspot/album/<int:pk>/delete/	Page that requests confirmation for deleting an album	None
trackspot/song/create/	Form to create a new song	None
trackspot/song/<int:pk>/update/	Form to update a song's details	None
trackspot/song/<int:pk>/delete/	Page that requests confirmation for deleting a song	None

trackspot/artist/create/	Form to create a new artist	None
trackspot/artist/<int:pk>/update/	Form to update an artist's details	None
trackspot/artist/<int:pk>/delete/	Page that requests confirmation for deleting an artist	None
trackspot/album/<int:pk>/reviewcreate/	Form for creating an album review	Need to be logged in
trackspot/song/<int:pk>/reviewcreate	Form for creating a song review	Need to be logged in

## 7. Authentication

For the authentication, there is a login/logout button accessible from any UI view of the project. When login is clicked, it takes the user to the classic login page where they can input their information and login, or recover a forgotten password. When logged in, a user is identified as a certified critic or a casual user. The only special permission associated with this difference is certified critics can change the organization they are associated with. Depending on which kind of user you are logged in under, the user can create a review for a song or an album under that account and it will be associated with other reviews of the same user type. The user can then log out from any page.

## 8. Team Choice

For our team choice component, we decided to implement search. Our search feature required a completely new URL route and corresponding view, in addition to hooking up the various search forms to this new route. The search feature searches across all models, and displays all results categorized by type. It also handles a search with no results, and a search with no results for multiple model types.

## 9. Conclusion

Overall, our team had a very positive experience throughout creating TrackSpot. However, there were many areas where we struggled. First of all, our initial data model had users and critics as inheriting model classes. This made querying things very difficult and made it hard to discern between the two types of users. Our later solution with a single user model, and groups for the

different types of users was much more optimal. Another difficulty that we had was implementing forms. For example, our review form had to always be associated with the current user upon submission. This was very difficult to implement since the current user was hard to access in the view, and we had to figure out how to add a custom field into the model after taking the information in from the form. Finally, our last difficulty was working together on collaborative parts of the project. It was difficult to coordinate our work when many parts of the project which individuals were doing required others to finish their work first. It was difficult to figure out what needed to be done first, especially when the project changed as we implemented certain things.