

# User Stories

## Sprint 1:

1. As a Spotify user, I want to log in using my Spotify account so that I can securely access my personal listening statistics.

### **Acceptance Criteria:**

- Client ID and Client Secret from the Spotify Developer Dashboard are stored securely in environment variables.
- After login, the app retrieves and stores the user's access token, refresh token and profile info (display\_name, email, image) in session.
- On success, user is redirected to the HomePage (/home); on failure, redirected to Home with an error message.
- Tokens are refreshed automatically when expired - no manual re-login required.

<https://github.com/tamu-edu-students/Spotifytics/issues/3>

**3 points**

2. As a logged-in user, I want to log out of my Spotify Stats account so that others cannot access my data from this device.

### **Acceptance Criteria:**

- A “Log Out” button is available on the Dashboard and navigation bar.
- Clicking Log Out clears all Spotify session data - including :spotify\_user, :spotify\_token, :spotify\_refresh\_token and :spotify\_expires\_at.
- After logout, the user is redirected to the Home page with a confirmation message (“You’ve been logged out successfully”).
- The user cannot access /dashboard, /top\_artists or /top\_tracks without re-authenticating.

<https://github.com/tamu-edu-students/Spotifytics/issues/4>

**3 points**

3. As a user, I want to view a summary of my top tracks on my dashboard so I can see an overview of my listening habits.

### **Criteria:**

- Displays summary cards for top tracks.
- Each card links to a detailed breakdown page.

<https://github.com/tamu-edu-students/Spotifytics/issues/30>

**3 points**

**4.** As a user, I want to view my top artists with their names, genres, and Spotify links so I can explore them directly.

**Acceptance Criteria:**

- List displays artist name, image, and popularity rank
- Each artist includes a clickable link to open in Spotify

<https://github.com/tamu-edu-students/SpotifyAnalytics/issues/9>

**3 points**

**5.** As a visitor to the app, I want to see a clear and informative home page that explains the app's purpose and lists the contributors, so that I can understand what the app does and who built it before signing up or logging in.

**Acceptance Criteria:**

- The home page displays the app name prominently at the top.
- A section lists all contributors, including their name and role.
- Navigation link for "Login" is present and functional.
- The page loads within 2 seconds on a standard connection.

<https://github.com/tamu-edu-students/SpotifyAnalytics/issues/24>

**6 points**

**6.** As a user, I want to view a summary of my top artist on my dashboard so I can see an overview of my listening habits.

**Criteria:**

- Displays summary cards for top artist.
- Each card links to a detailed breakdown page.

<https://github.com/tamu-edu-students/SpotifyAnalytics/issues/27>

**3 points**

**7.** As a user, I want to view my top tracks along with album art and Spotify links so I can revisit them.

**Acceptance Criteria:**

- Displays track name, artist, album art, and rank
- Clicking the track opens it in Spotify
- Limit of top 20 results per period

<https://github.com/tamu-edu-students/SpotifyAnalytics/issues/10>

**3 points**

## **Sprint 2:**

**8.** As a logged in Spotify user, I want to select how many top tracks I want to see in the Top Tracks tab using a dropdown menu, so that I can customize how much of my listening data is displayed.

### **Acceptance Criteria:**

- A dropdown appears above or beside the top tracks list (options: 10, 25, 50).
- Selecting a value updates the Spotify API request (limit parameter) accordingly.
- Default selection is 10 tracks.
- With JavaScript enabled, changing the selection auto-submits and refreshes the list in place.
- With JavaScript disabled, a Refresh button is shown; clicking it applies the selection.
- This dropdown is available for each of the different time ranges and applies to each individually.

<https://github.com/tamu-edu-students/SpotifyAnalytics/issues/34>

**3 points**

**9.** As a logged in Spotify user, I want to select how many top artists I want to view using a dropdown menu, so that I can control how much of my listening data is shown and explore it at my own pace.

### **Acceptance Criteria:**

- The Top Artists page shows three time ranges: Past 4 Weeks, Past 6 Months, Past 1 Year.
- Each range has its own dropdown with options Top 10 / Top 25 / Top 50.
- Each range's selection defaults to Top 10, or to the value from the query params (limit\_short\_term, limit\_medium\_term, limit\_long\_term).
- Changing a dropdown only updates that range (others persist); with No-JS, user must click Update for that range.
- The page renders exactly N artists in that range's column (or fewer if Spotify returns less).
- Invalid/blank limits normalize to 10 per range.

<https://github.com/tamu-edu-students/SpotifyAnalytics/issues/35>

**3 points**

**10.** As a user, I want to view my most-listened genres in a visual format so I can understand my overall music taste.

### **Acceptance Criteria:**

- Displays genre list or chart (pie/bar)
- The dashboard computes genre counts from the user's Top 10 artists (case-insensitive, trims whitespace).
- The chart shows top 8 genres by count; any remaining genres are combined into an "Other" slice.

- The chart label list (legend) shows genres in the same order as the chart, with their counts.
- With JavaScript enabled, a Chart.js pie renders; without JS, a static conic-gradient pie and the legend render.
- If there are no genres, the chart is not shown, and a friendly “No genre data available” text is displayed.

<https://github.com/tamu-edu-students/SpotifyAnalytics/issues/11>

**3 points**

**11.** As a user, I want to create a Spotify playlist from my top tracks so I can easily listen to them in Spotify.

**Acceptance Criteria:**

- Button on dashboard labeled “Create Playlist”
- Creates playlist in user’s Spotify account using API
- Displays success/failure message

<https://github.com/tamu-edu-students/SpotifyAnalytics/issues/13>

**2 points**

**12.** As a user, I want to view a dashboard summarizing my top tracks, artists, and genres so I can see an overview of my listening habits.

**Acceptance Criteria:**

- Dashboard loads within 3 seconds after login
- Displays summary cards for top artist, top track, and top genre
- Each card links to a detailed breakdown page

<https://github.com/tamu-edu-students/SpotifyAnalytics/issues/6>

**2 points**

**13.** As a user, I want to view my profile info (username, Spotify display name, profile picture) whenever I want.

**Acceptance Criteria:**

- “Account” page displays basic Spotify profile data
- Update reflected immediately in UI

<https://github.com/tamu-edu-students/SpotifyAnalytics/issues/5>

**2 points**

**14.** As a logged in Spotify user, I want to receive personalized track recommendations based on my favorite artists, tracks or genres, so that I can discover new music similar to what I already like.

**Acceptance Criteria:**

- User can select artists/tracks/genres as recommendation seeds.
- System makes an API call with selected seeds.
- A valid OAuth token is included in the header.
- On success: App displays a list of recommended tracks with title and artist.
- If no data is available, show a message (“No recommendations found”).
- Unit and integration tests confirm proper API request and data rendering.

<https://github.com/tamu-edu-students/Spotilytics/issues/33>

**2 points**

**15.** As a user, I want to click on an artist or track to open it directly in Spotify (web or app) for immediate playback.

**Acceptance Criteria:**

- All listed artists/tracks have “Open in Spotify” buttons
- Links open successfully using Spotify URIs or web URLs

<https://github.com/tamu-edu-students/Spotilytics/issues/14>

**2 points**

**16.** As a logged-in Spotify user I want my Spotify data (top tracks, top artists, and recommendations) to be cached for 24 hours, so that the app retrieves the data quickly, avoids redundant API calls, and respects Spotify API rate limits.

**Acceptance Criteria:**

- Each API response (top tracks, top artists, recommendations) is stored in Redis under a unique key per user and per query parameters.
- Cached data expires exactly after 24 hours.
- Repeated requests within the cache lifetime should not increase the number of Spotify API calls.

<https://github.com/tamu-edu-students/Spotilytics/issues/16>

**2 points**

**17.** As a logged in Spotify user I want to follow an artist from my Spotilytics Top Artist page, so that I can keep up with their new releases and recommendations.

**Acceptance Criteria:**

- Follow button appears for artists the user is not following, greyed out otherwise.
- Clicking Follow makes an API call with a valid OAuth token.

- On Success: UI updates immediately.
- Unit + integration tests verify API call and UI state change.

<https://github.com/tamu-edu-students/SpotifyAnalytics/issues/31>

**2 points**

**18.** As a user, I want to compare my TOP ARTISTS between two time periods so I can see how my music taste evolved.

**Acceptance Criteria:**

- Select two time ranges for side-by-side comparison
- Highlights additions or drops in ranking

<https://github.com/tamu-edu-students/SpotifyAnalytics/issues/45>

**4 points**

**19.** As a user, I want to compare my TOP TRACKS between two time periods so I can see how my music taste evolved.

**Acceptance Criteria:**

- Select two time ranges for side-by-side comparison
- Highlights additions or drops in ranking

<https://github.com/tamu-edu-students/SpotifyAnalytics/issues/46>

**4 points**

**20.** As a logged in spotify user, I want to be able to unfollow an artist directly from my Spotify top artists page, so that I can manage my followed artists and control what content or recommendations appear in my profile.

**Acceptance Criteria:**

- User sees an Unfollow button beside each followed artist in the Top Artists tab.
- Clicking Unfollow makes an API call.
- Request includes valid OAuth token.
- On success: artist is removed from the list.
- Unit and integration tests verify API call and UI update.

<https://github.com/tamu-edu-students/SpotifyAnalytics/issues/32>

**2 points**