Sprint 3 Plan

Product name: Rootify
Team name: Rootify

Sprint Completion: 11/19/17

Revision number: 0
Revision date: 11/06/17

Goal: Create the bottom bar to control and visualize certain attributes of the artists and tracks in the tree. Be able to visualize certain attributes based on size and filtering. Create the 'Generate' tab to generate a recommended Spotify playlist based on selected artists, tracks, and genres.

Tasks:

User story 1: "As a Spotify user, I want to be able to view artist details (associated genres and popularity) and track details (happiness, energy, tempo, key (tonic), major or minor, etc) so I can learn more about my taste in music and specific artists and tracks."

- Added associated genres for artist in 'Details' tab (**0.5 hours**)
- Add header of artist (with overlayed text) (**0.5 hours**)

Total: 1 hour

User acceptance criteria:

- Must able to see a header image of a track's album art or an artist background.
- Should be able to see the name of the track (and its artist) or the artist
- Should see popularity, danceability, energy, valence (happiness), key of song, and major or minor **for a track.**
- Associated genres and popularity bar **for an artist**

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User story 2: "As a Spotify user, I want to be able to see and visualize certain features of my top long-term and short-term artists and tracks alongside related artists and recommended tracks so that I can see how each artist and track compares to each other in order to gain better insight into my taste in music."

- When a checkbox is selected (from the sidebar), all of the applicable nodes will be resized based on what audio feature was selected (and those audio features already selected). (**3 hours**)
- When a range slider is changed, all the nodes will be greyed out if they don't fit the criteria (fall within all of the ranges specified). (**3 hours**)

Total: 6 hours

User acceptance criteria:

- Must be able to see the nodes on the tree layout scale (or resize) based on *all* of the selected checkboxes

- Must be able to see nodes grayed out if they don't meet the slider criteria (and not grayed out if they meet the filtered criteria).

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User story 3: "As a Spotify user, I want to have a bar near the bottom to control which audio features of my top tracks and artists (and related tracks and artists) I can visualize so that I can narrow down specific artists and tracks based on criteria and learn more about my taste in music."

- Create an interactive button on the bottom that when pressed, it opens the a bottom sidebar. (**1.5 hours**)
- Create set of checkboxes (or radio buttons) on the left-hand side for each audio feature. (**1 hour**)
- Create set of range sliders on the right-hand side for each audio feature. (**1 hour**)

Total: 3.5 hours

User acceptance criteria:

- Must be able to click on an interactive button on the bottom which, when clicked, will open up a long, short bar.
- Must be able to see checkboxes on the left-hand side (of the opened bar), one for each audio feature (energy, danceability, positivity/valence) and one for popularity
- Must be able to see range sliders on the right-hand side, one for each audio feature (see above) including popularity.

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User story 4: "As a Spotify user, I want the ability to create a recommended playlist based on my selected artists, tracks, and/or genres and filtering options so that I can explore and discover new music." (**8**)

- Handle selection of artists, tracks, and genres (**1.5 hours**)
- Create rows (of elements) to indicate the selected artists (**0.5 hours**)
- Create rows to indicate selected tracks (**0.5 hours**)
- Drop-down menu to select seedable genres (**0.25 hours**)
    - When a seedable genre is selected, create a row (but only if we haven't hit our max of 5 limit yet) (**0.5 hours**)
        - For genre row, there is text on the left indicating the genre and an 'X' or delete button on the right so we can delete the row
- Create HTML range sliders for each of the following: popularity, energy, danceability, and valence (positivity) (**0.5 hours**)
- Create a playlist name textbox (**0.1 hours**)
- When the 'Generate Playlist' button is pressed, create a recommended Spotify playlist (with the name specified) using the Spotify Web API. Pass in the seeded artists, tracks, and/or genres (up to a maximum of a combination of 5), get the returned tracks back, and then add the selected tracks (from the tree) to this array. Then call the Spotify Web API to create a playlist with the array of tracks. (**2.5 hours**)

Total: 6.35 hours

User acceptance criteria:

- Must be able to select up to a maximum of a combination of 5 artists, tracks, and seedable genres
- Must be able to give the new Spotify playlist a name (none given should result in a default name)
- Must be able to see a list for selected artists, tracks, and genres.
- Must be able to generate a recommended Spotify playlist with the given name (or a default one is not given), making sure to also include the tracks selected.

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Total hours: 16.85 hours

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Team roles:

Tristan Iverson:	**Product Owner**, Developer
Jonathan Ortiz:	Developer
Kristine Nguyen:	Developer
Chloe Jiang:	Developer
Brian Tran:	**Scrum Master**, Developer

Initial task assignment:

Tristan Iverson: User story 1 (Associated genres text an artist); User story 2 (Resizing the nodes in the tree when audio features are selected or filtering out nodes that don't fit the range slider values).

Jonathan Ortiz: User story 1 (Associated genres text for an artist); User story 3 (bottom bar)

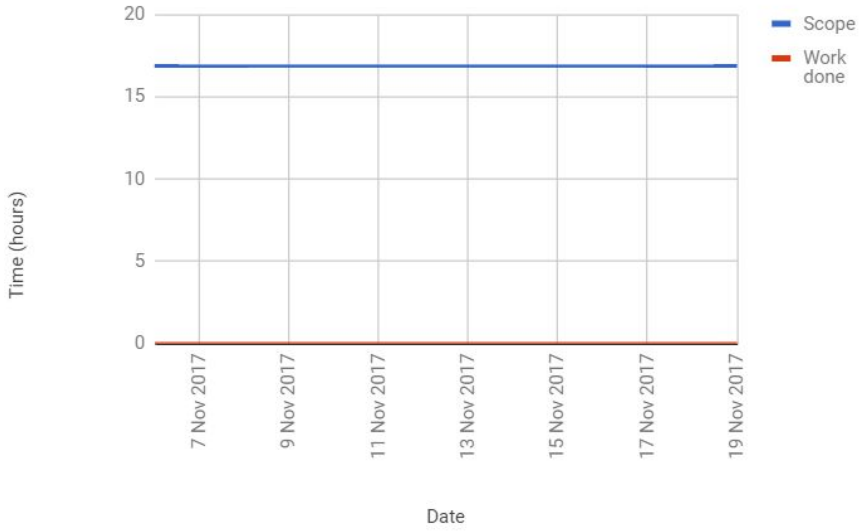
Kristine Nguyen: User story 1 (artist header image with overlayed text); User story 4 ('Generate tab')

Chloe Jiang: User story 4 (HTML elements)

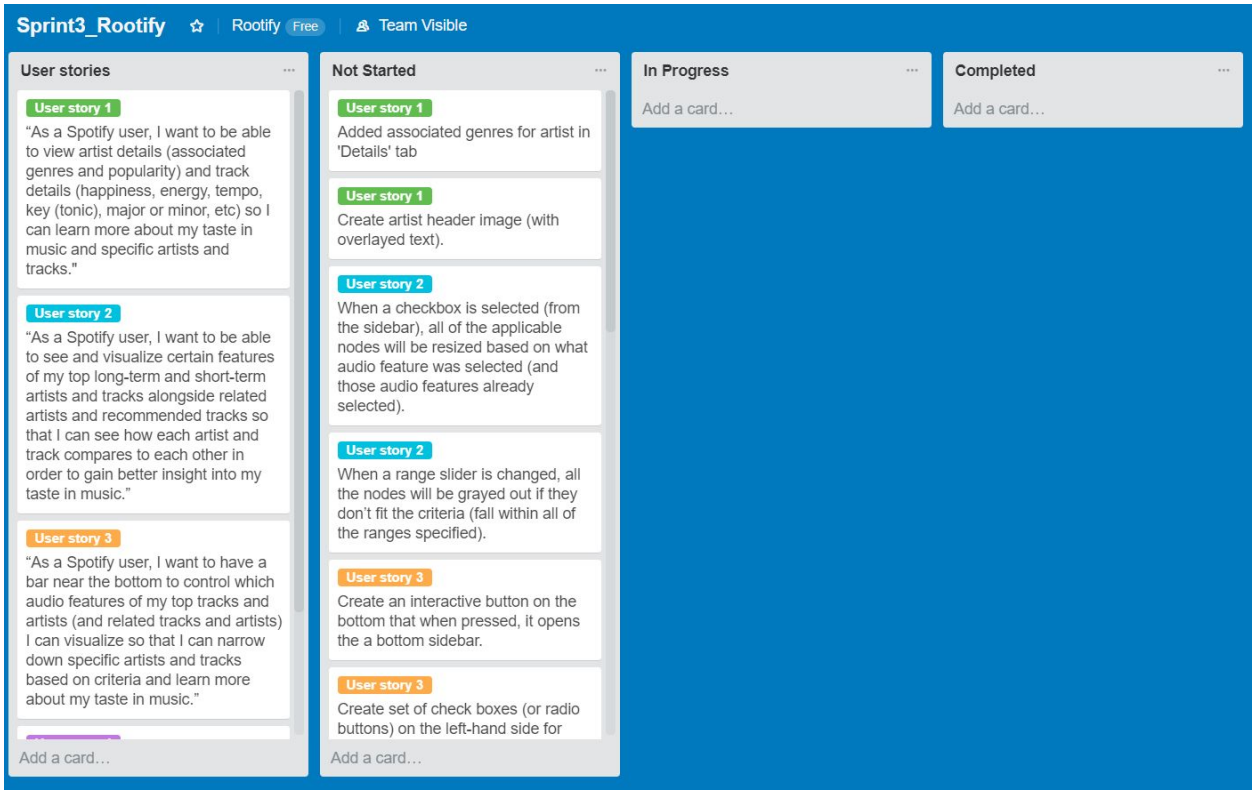
Brian Tran: User story 4 (HTML elements)

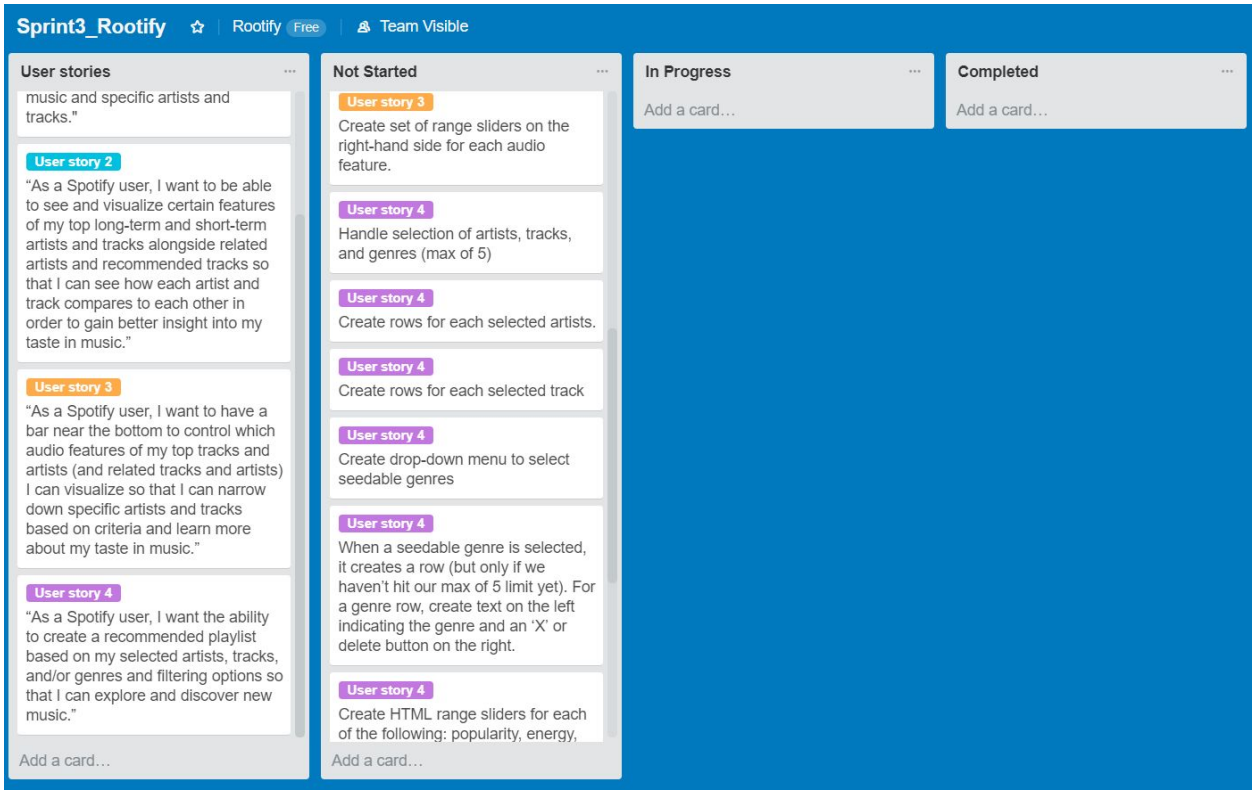
Initial burn-up chart:

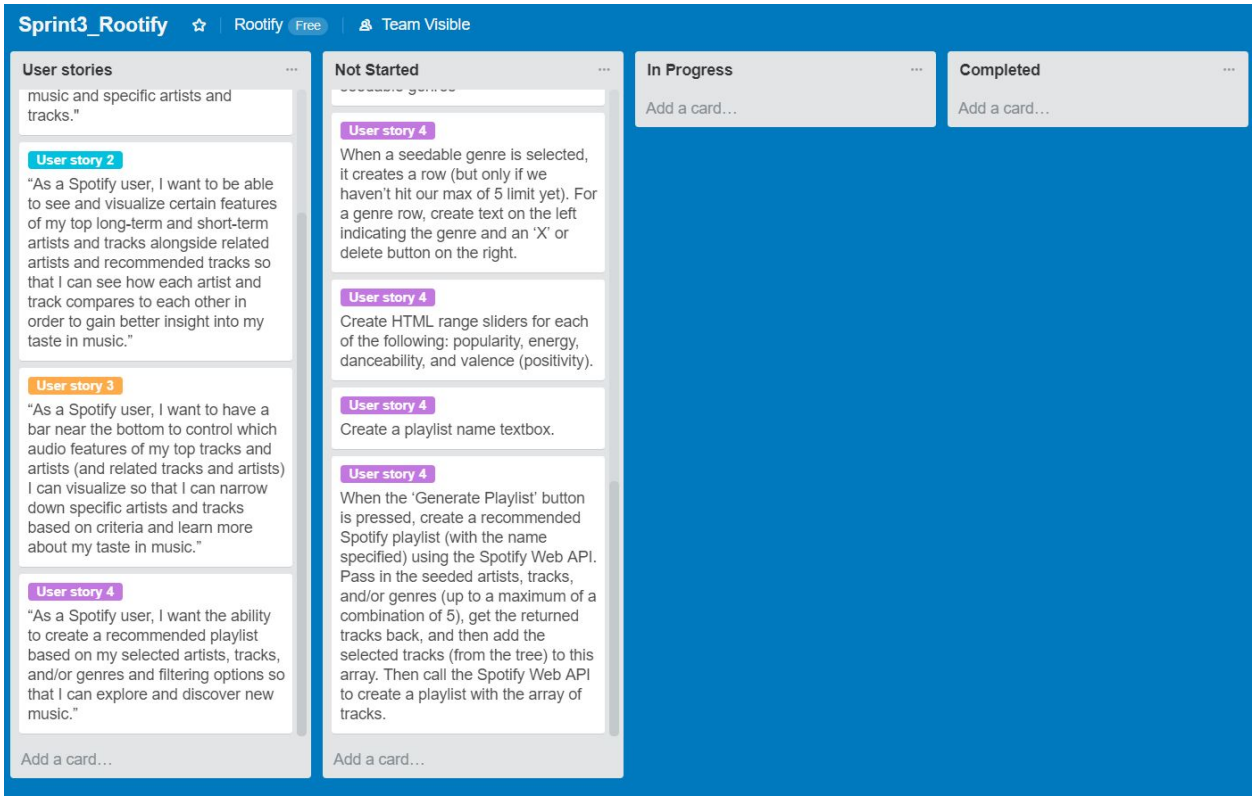
Sprint 3: Burn-up Chart



Initial scrum board:







Scrum meeting times:

Monday, 7:00 PM, BE 302
Wednesday, 10:00 AM, BE 302 (with Reihaneh)
Tuesday/Thursday 4:00 PM, BE 302