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# SingleStream

***Team 8*** - 3.09.2017

John Fantell, Will Stone, Roshni Vachhani,  
Ryan Flynn, and Robert Rotering



MAKE STREAMING  
GREAT AGAIN

A white baseball cap with a curved brim. The text "MAKE STREAMING GREAT AGAIN" is printed in a bold, orange, serif font across the front of the cap. The cap has a small button on top and a gold-colored elastic strap at the back of the crown. The brim features several concentric, dashed orange lines.



## Team Members

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- Robert Rotering
- John Fantell
- Roshni Vachhani
- Ryan Flynn
- Will Stone



# Agenda

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- Problem
- Solution
- Front-End
- Back-End
- Mock-Ups



## **Global Streaming Market**

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- \$9.7 Billion Global Market by 2022
- Spotify, Apple Music, Pandora, SoundCloud
- Gained over a Billion users from 2011–2015



## The Problem

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- Being a fan of a wide variety of music can be a pain.  
Depending on the music player of your choice, not all of your artists will be available.



Google Play



audiomack



TIDAL





## Existing Applications

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- Tomahawk is advertised as an all in one music player
- Supports many different api's as well as local music files
- Even has social media integration









## The Solution

- A platform that unifies the content of each music streaming platform
- Combines the best of social media and music streaming to provide a fully integrated experience





## Users/Stakeholders

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- Those who:
  - > Belong to multiple subscription/cloud-based music services such as Spotify, Last.fm, etc.
  - > Listen and share music with their friends
  - > Listen to media on non-mainstream music/media services (YouTube and Soundcloud)
  - > Enjoy posting, reviewing, polling, and all in all engaging in an online community dedicated to music



## Scope

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- All in one application that brings together multiple APIs
- Create track playlists across multiple stream services
- Ability to share music with other music lovers



# Functional/NonFunctional Requirements

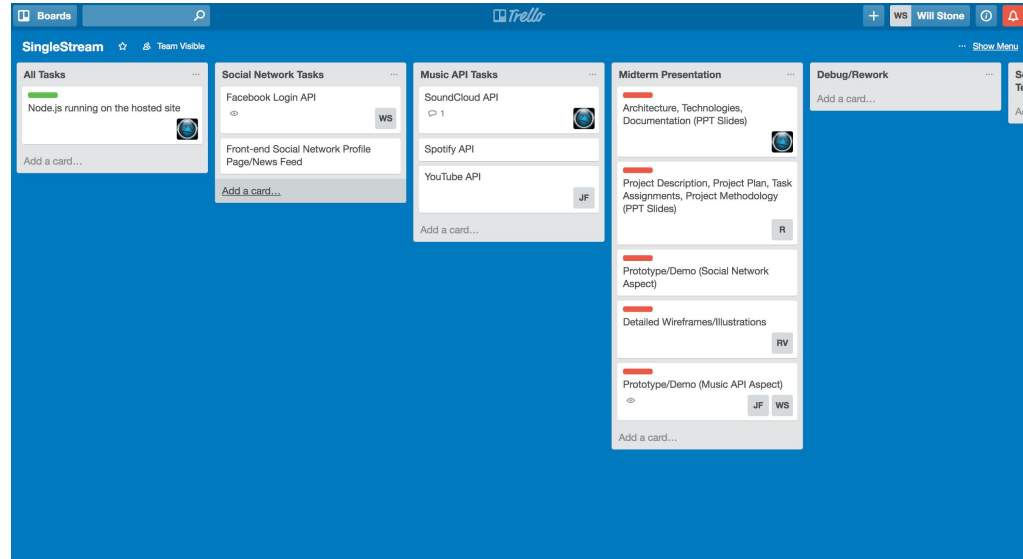
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- User profiles + community
- Saved playlists
- Track Search
- Discovery with track URL's
- Listening activity feed
- Listening statistics



# Project Management

- Agile Development
- Weekly Meetings
- Trello for task tracking and assignment
- GitHub for collaborative coding
- Full Stack Development

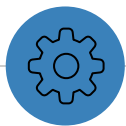




## Project Plan: Overview

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- 3/10: Divide into sub-groups
  - > Start working with music APIs
  - > Start building social network (front-end)
- 4/1: Have APIs fully integrated with application
- 4/14: Have back-end functionality operational
- 4/17 – 4/19: Usability tests
- 4/24 – 4/27: Presentations



# The Front-End

HTML5, CSS3, Bootstrap







# Front-End Design

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## HTML5

- Semantic markup
- Cross-browser support

## CSS3




- Page layout
- Consistent styles

## Bootstrap

- Modern design
- Responsive and intuitive site

[Studying](#)[Relaxing](#)[Car Rides](#)[Spring 2017](#)[Favorites](#)[Indie](#)[Shower](#)[Party](#)[Workout](#)[Throwback](#)[Acoustic](#)[Pop](#)

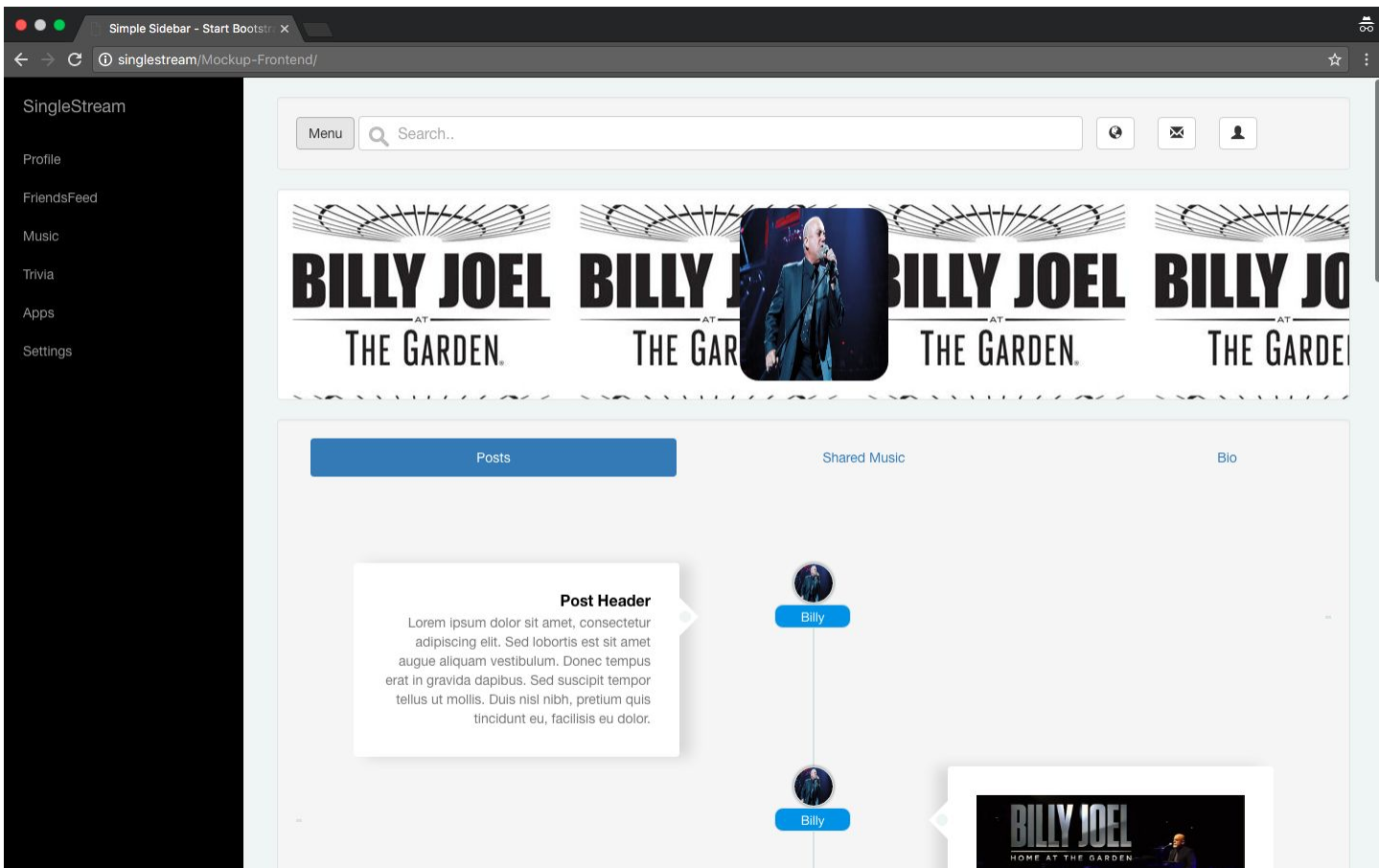
## Studying

	SONG	ARTIST	ALBUM	 	
+	The Twins (Prague)	Max Richter	Memoryhouse	6 days ago	1:58
+	il	Jean-Michel Blais	Il	6 days ago	2:06
+	Piano Trio in G Major, L. 3: I. Andantino con ...	Claude Debussy, Jos...	The Essentials: Debu...	11 days ago	9:15
+	Prelude For Time Feelers	Eluvium	Copia	2017-02-16	5:49
+	Light of the Seven	Ramin Djawadi	Game Of Thrones: S...	2017-02-16	9:49
+	Stars in Dreams	Dirk Maessen	Zenith	2017-02-10	5:11
+	Oceano	Roberto Cacciapaglia	Quarto tempo (Fourt...	2017-01-31	4:11
+	Divenire	Ludovico Einaudi	Divenire	2017-01-31	6:44
+	Nostos	Jean-Michel Blais, B...	Il	2017-01-31	4:32
+	Irene's Theme	David Arnold & Mich...	Sherlock: Music Fro...	2017-01-25	0:43
+	Awaken	Dario Marianelli, Jac...	Jane Eyre - Original ...	2017-01-25	4:26



1:29

3:53

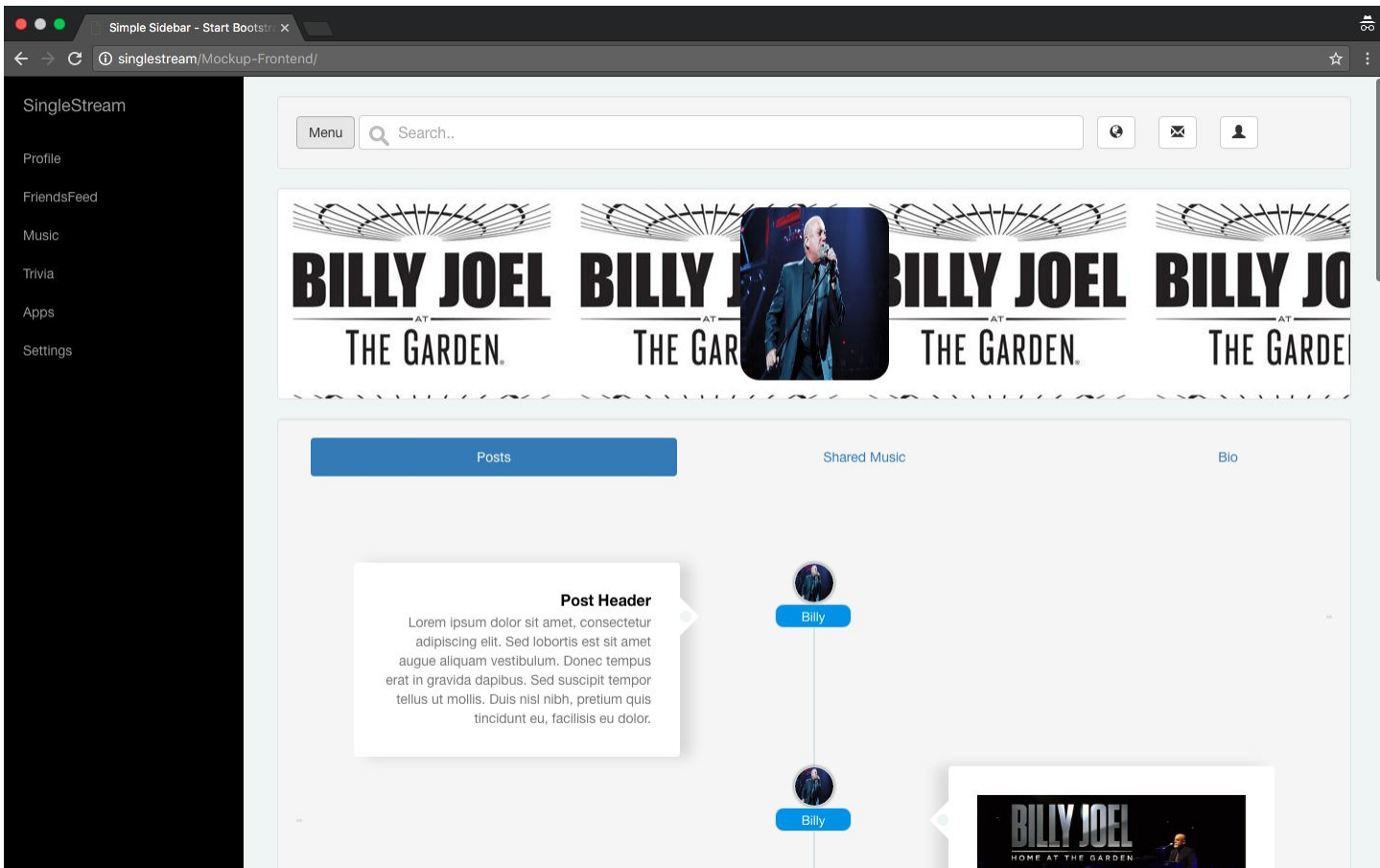


Sleek sidebar  
navigation menu  
(Toggle with Menu  
button)

Search field at the  
top of each page  
(Friends, Albums,  
Events)

Responsive Design  
+ Mobile Friendly

Profile Mockup

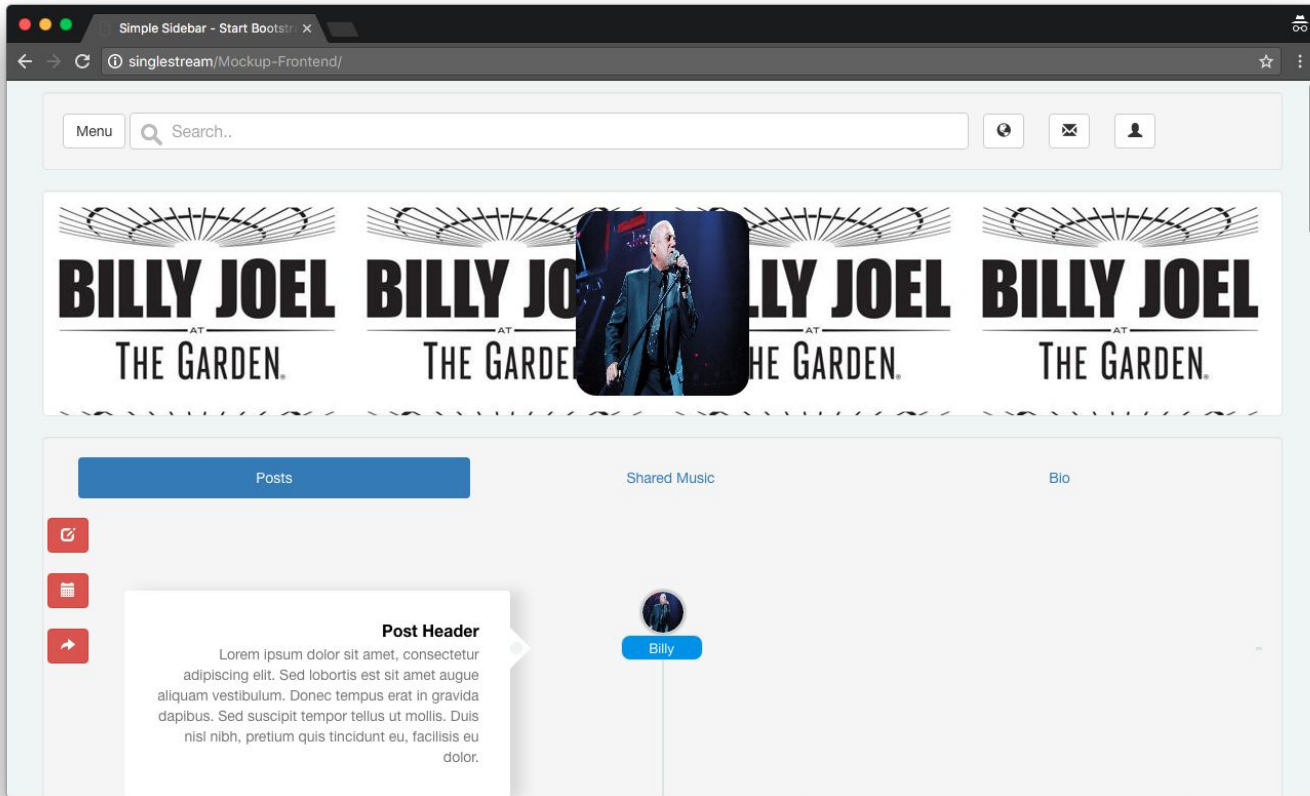


Profile

FriendsFeed

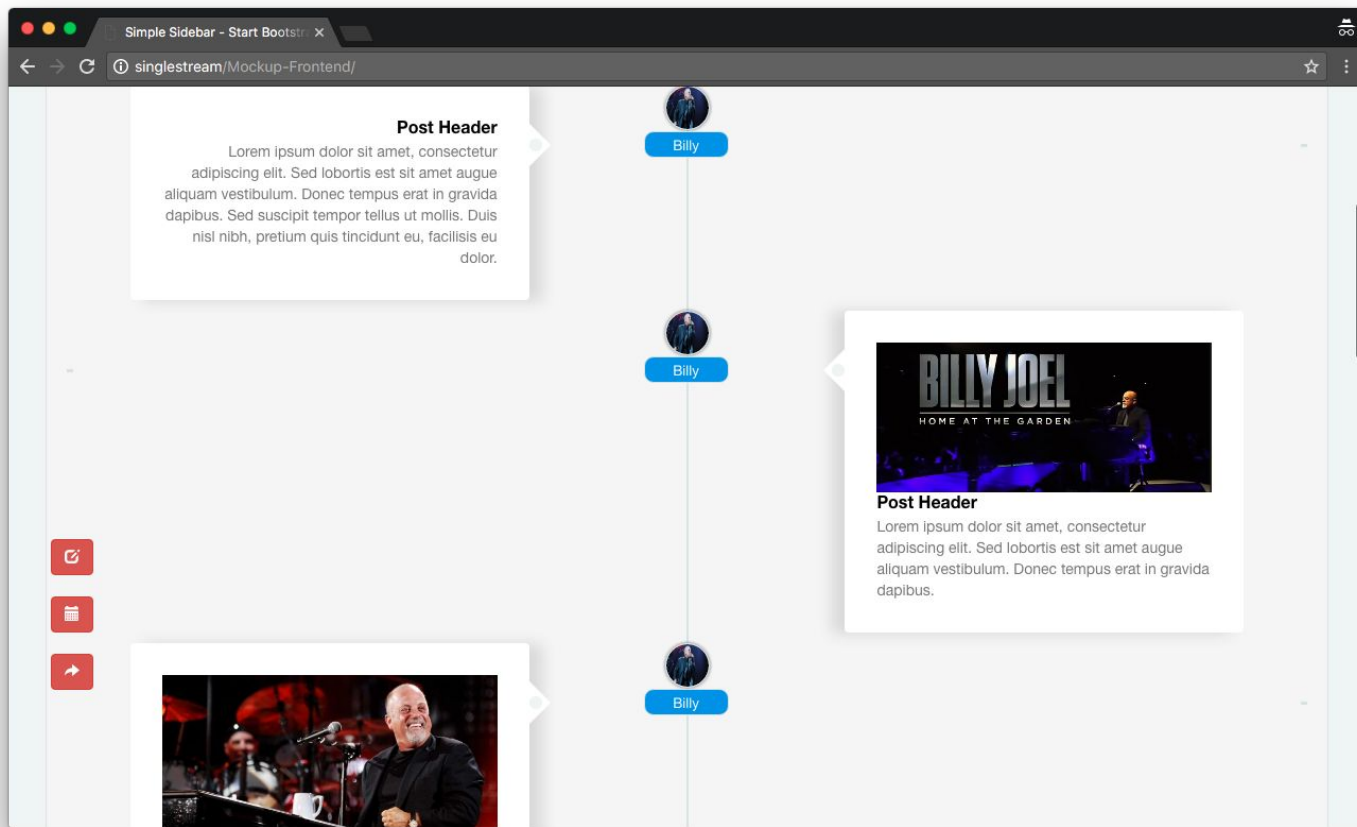
Music

Overview



Review your favorite song, create and share a new playlist with friends

Share songs and albums from your YouTube, Spotify, and SoundCloud accounts

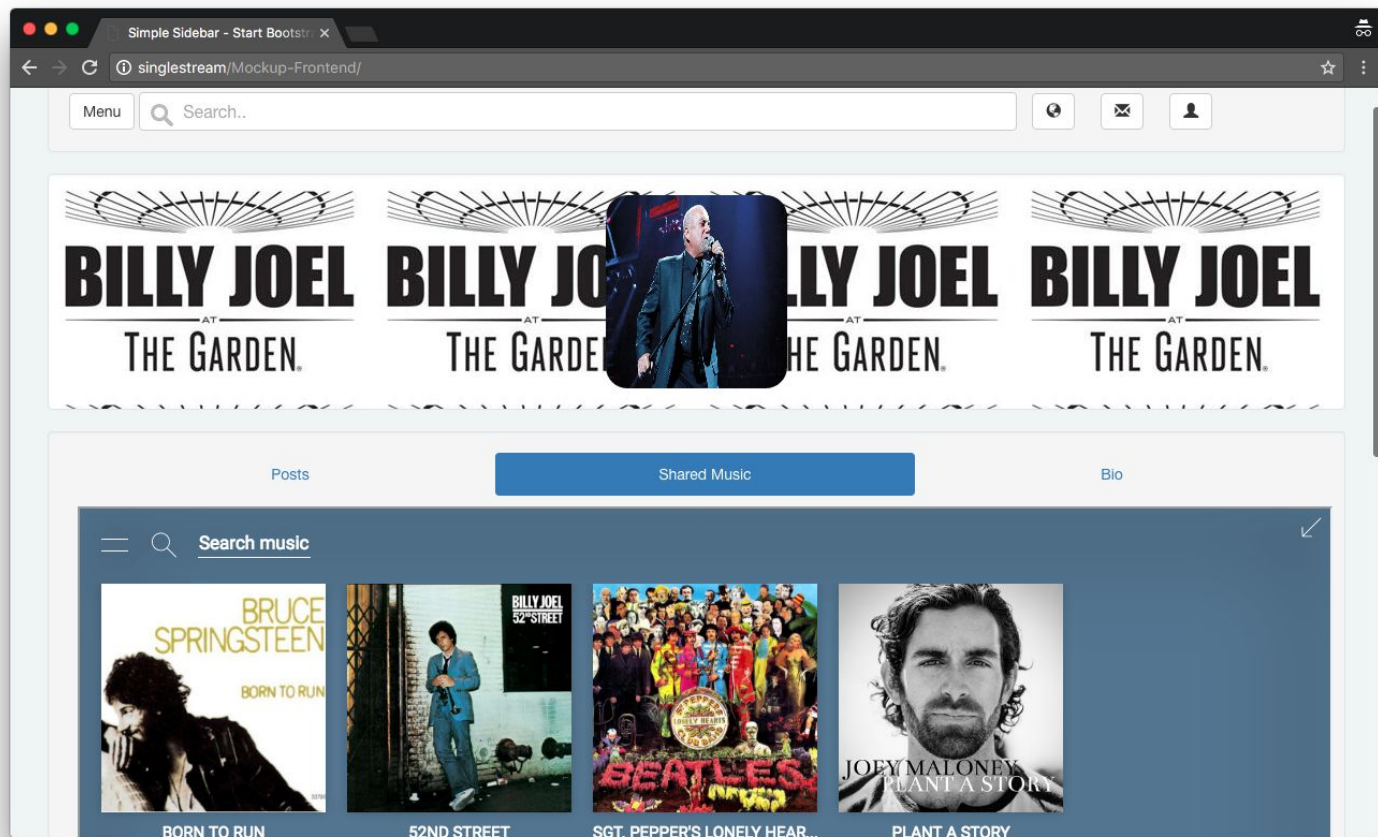


Review your favorite song, create and share a new playlist with friends

Customize who can see your posts

Share songs and albums from your YouTube, Spotify, and SoundCloud accounts

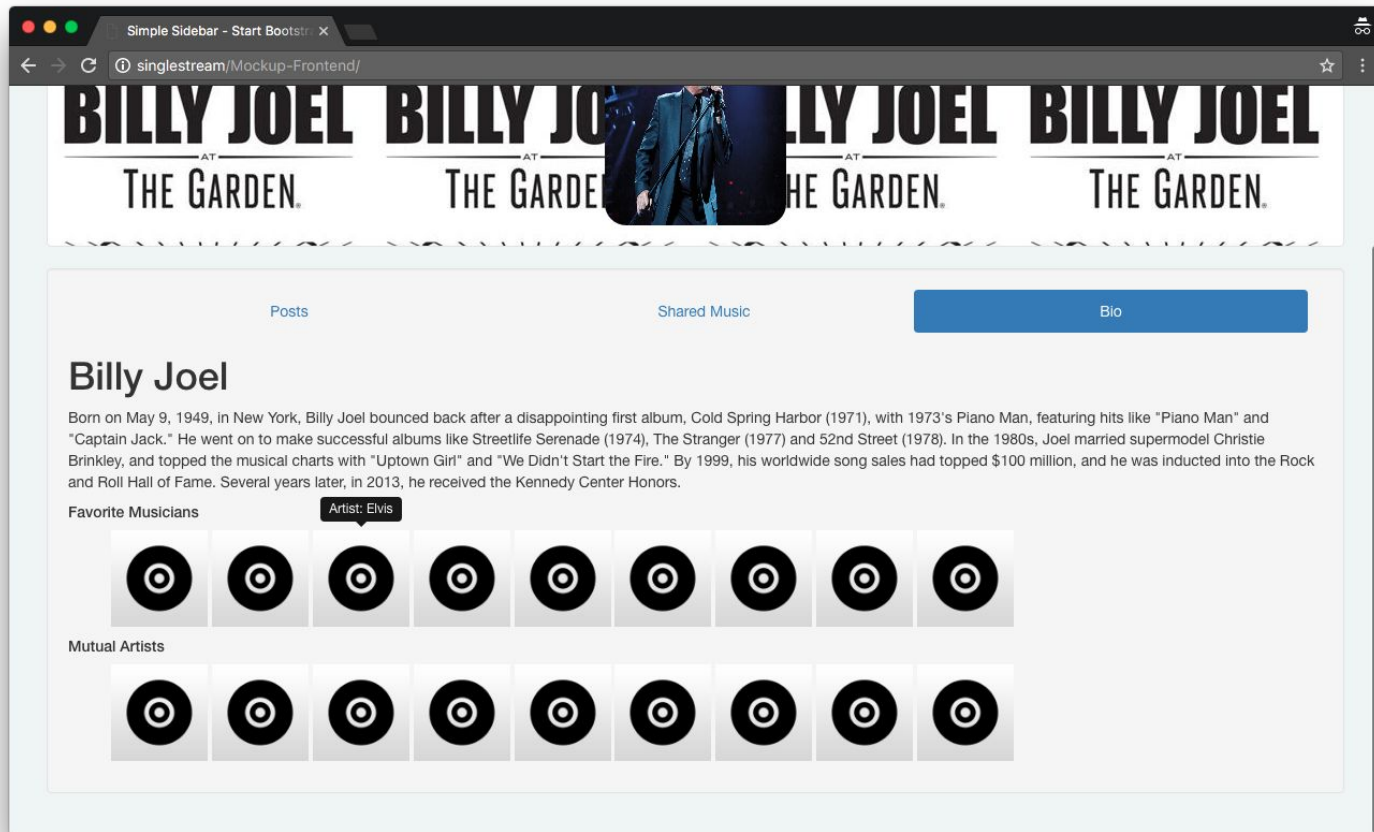
Profile Mockup: Posts



See all of the music  
you have shared  
recently

Filter by albums,  
playlists, songs

Profile: Shared Music



Let the community know who you are, which music you like most

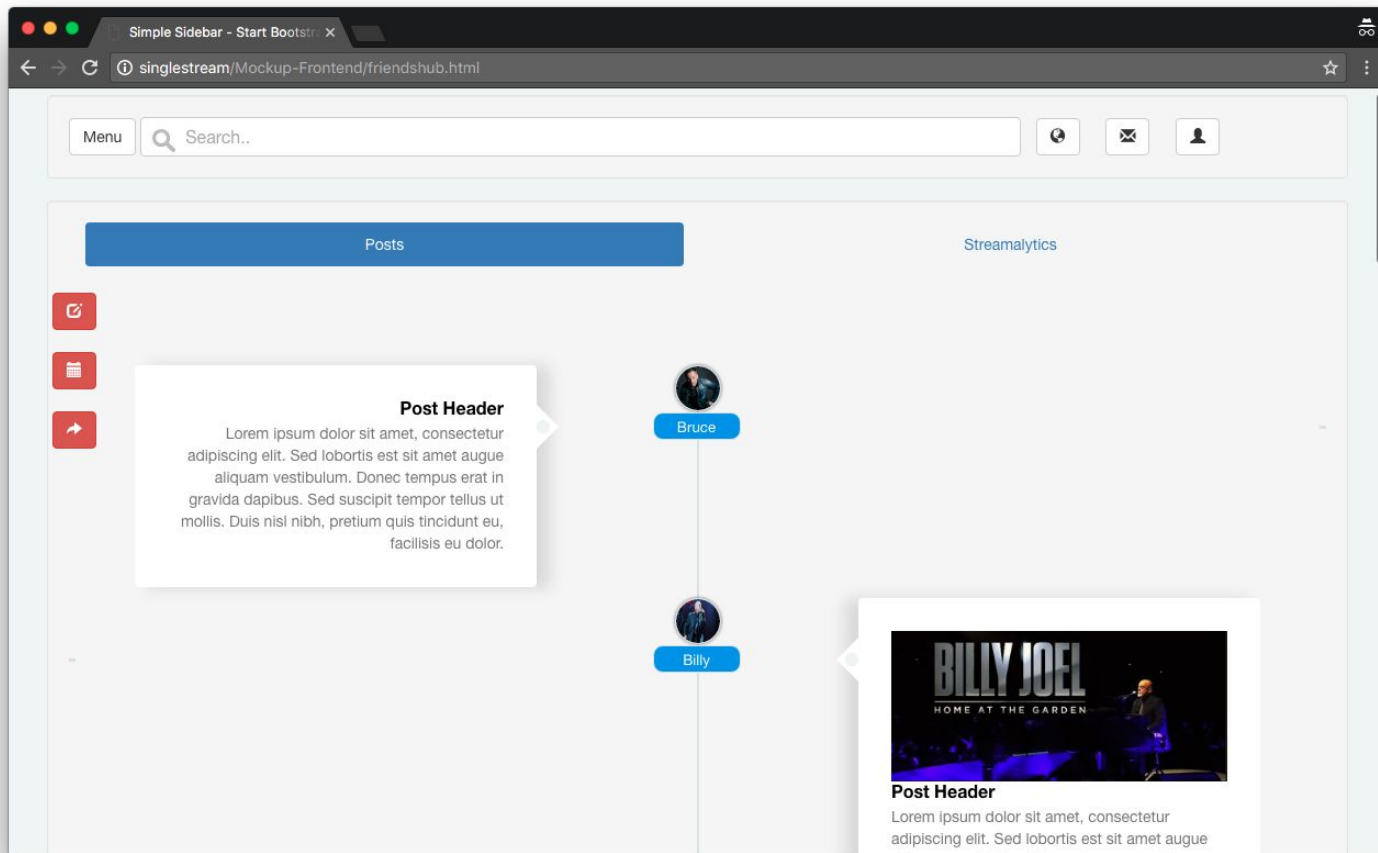
Rank your favorite artists and musicians

See what music you have in common with your friends



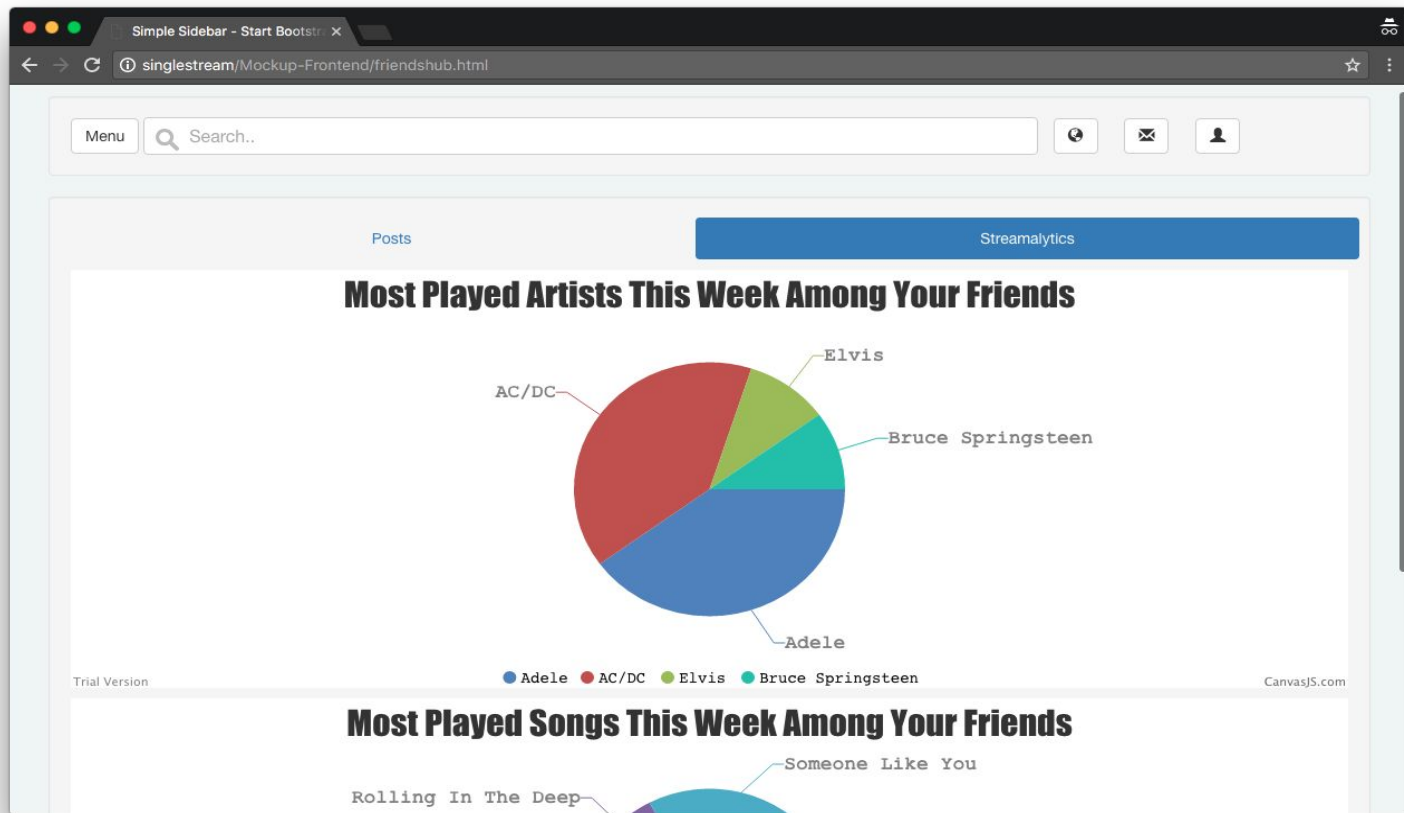
Profile: Bio





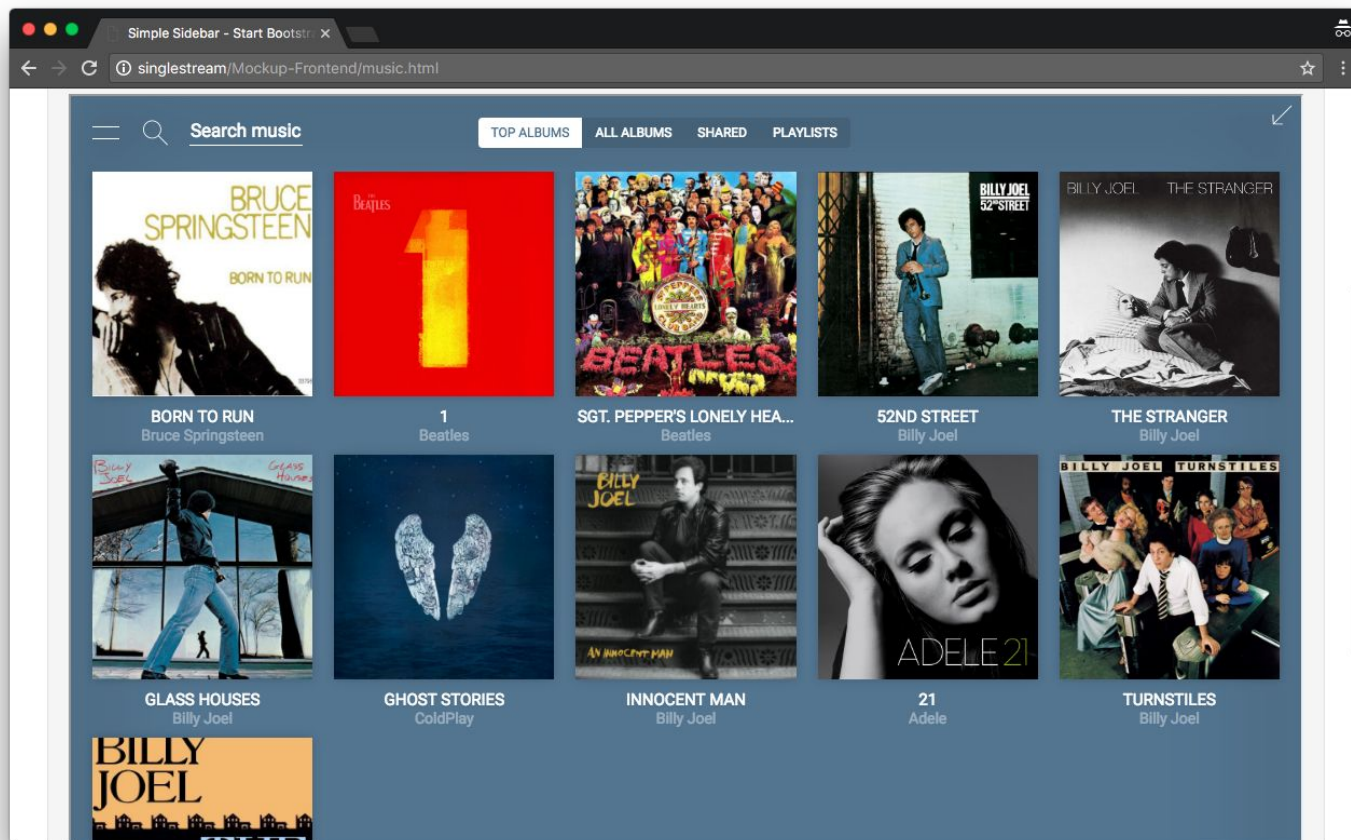
Explore all of the wonderful new music your friends share with you

Poll, debate, discuss. It's all about the music!



Reading is one thing. Visualizing is another.

See which artist, song, album, music video is trending in your friend circle



Play all of your music from SoundCloud, Spotify, YouTube in one place!

Customizable!  
Filter your tunes however you would like.



# The Back-End

MEAN STACK



express





# Back-End Technologies

## MongoDB

- Account information
- API songs
- User posts and shares

## Express

- Build the framework for a multi-page application

## AngularJS

- Communicate with client side
- Formatting and design of user interface

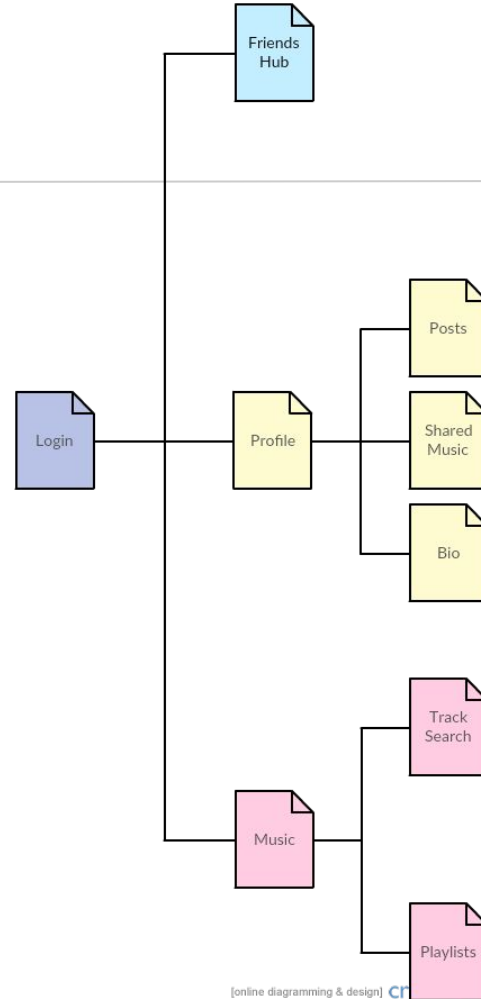
## node.js

- Backend scripting
- I/O
- API interactions/User authentication



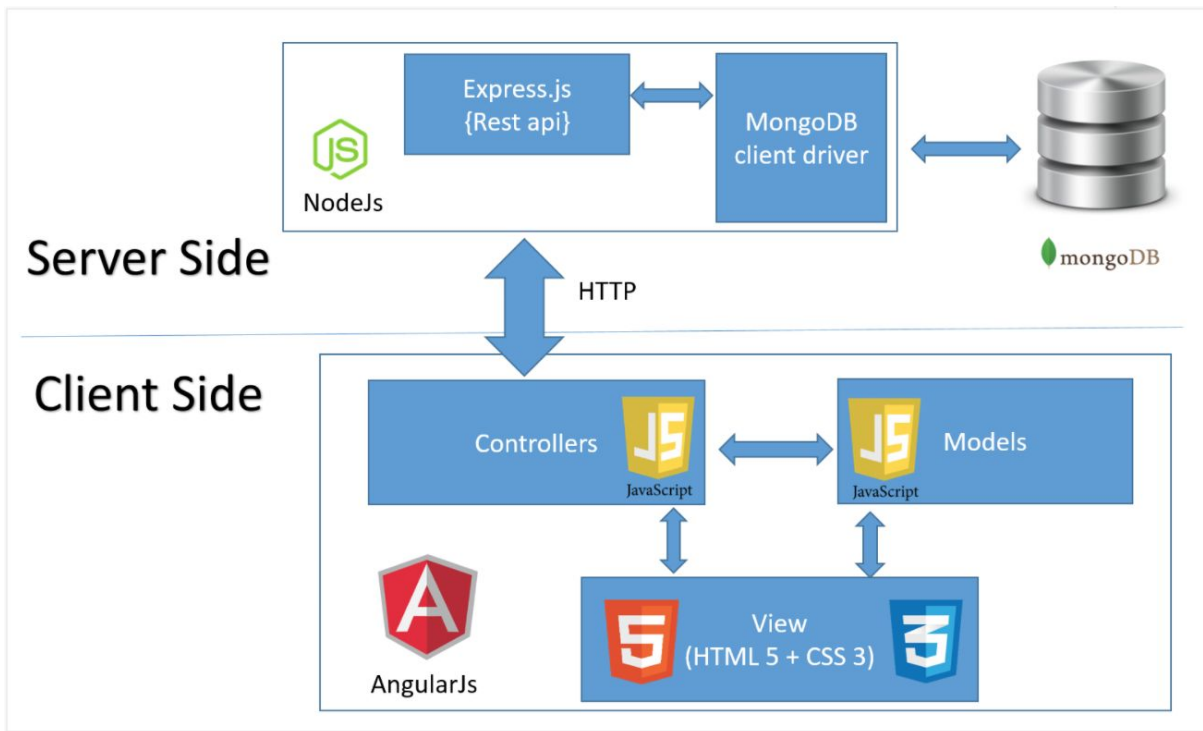
# Website Structure

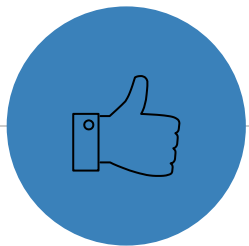
- Profile view/edit
  - Posts
  - Shared Music
  - Bio
- FriendsFeed
  - Posts, Shared Music
  - Analytics
- Music
  - Search for Tracks
  - View Playlists





# File System Architecture





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# Thanks!

*Any questions ?*