

CS 1530 - Project Proposal

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 github.com/erichunzeker/SWE-Spring2019

What: What is the project or what is the problem statement in one sentence?

GUS is a solution for the problem of sharing music online but not knowing which web service a person that you're sharing music with is using.

Why: Why is this project or problem solving important to you (what is the socio-economic or technological positive)?

First, it makes sharing and marketing music easier. With a single link that provides access to multiple streaming services, fans and artists can simply share a link that will cover most people's preference of streaming music. We believe that sharing music is important, and in this spirit are developing a webservice with the intent of helping people access music easier.

How: How are you going to solve it? Briefly outline your solution strategy: like technology stack, platform, etc.

We plan to use Flask MVC with API calls to streaming services to populate respective links.

Functional Requirements

Functional Req 1.

IDENTIFIER: **Landing/Home Page**

DESCRIPTION: User is greeted with GUS' homepage when they go the website

PURPOSE: To have a landing page

I/O: I/O

ACTORS/TRIGGERS: User enters "www.url of GUS.ext" in a browser

Functional Req 2.

IDENTIFIER: **Search Bar present**

DESCRIPTION: On the homepage, a search box for querying music is present.

PURPOSE: Easy and straightforward way to query music

I/O: I/O

ACTORS/TRIGGERS: User is on homepage

Functional Req 3.

IDENTIFIER: **Live Query results**

DESCRIPTION: As a user is typing a query in the search bar, a certain number of results are displayed in a list view below the bar in a live updating fashion.

PURPOSE: So user can potentially access a result without having to query in its entirety

I/O: I/O

ACTORS/TRIGGERS: User types the name of existent music

Functional Req 4.

IDENTIFIER: **Select Song/Artist/Album**

DESCRIPTION: Near the search bar is a selection for querying a song, artist, or album.

PURPOSE: To further refine the search to match the users wants.

I/O: I/O

ACTORS/TRIGGERS: User is on homepage.

Functional Req 5.

IDENTIFIER: **Valid Song Search Results**

DESCRIPTION: When a user chooses to query a song, and results for that song indeed exist, then they will be taken to a new page and presented with a list of songs of that name.

PURPOSE: To give the user a list of common songs matching the desired name.

I/O: I/O

ACTORS/TRIGGERS: User queries a song that is present on streaming services

Functional Req 6.

IDENTIFIER: **Invalid Song Search Results**

DESCRIPTION: When a user chooses to query a song, and no results for that name are found, then they will be taken to a new page and presented with "no songs found".

PURPOSE: To inform the user that their query did not return any results

I/O: I/O

ACTORS/TRIGGERS: User queries a string that doesn't match songs on any streaming services

Functional Req 7.

IDENTIFIER: **Valid Artist Search Results**

DESCRIPTION: When a user chooses to query an artist, and results for that artist indeed exist, then they will be taken to a new page and presented with a list of artists of that name.

PURPOSE: To give the user a list of common artists matching the desired name.

I/O: I/O

ACTORS/TRIGGERS: User queries an artist that is present on streaming services

Functional Req 8.

IDENTIFIER: **Invalid Artist Search Results**

DESCRIPTION: When a user chooses to query an artist, and no results for that name are found, then they will be taken to a new page and presented with "no artists found".

PURPOSE: To inform the user that their query did not return any results.

I/O: I/O

ACTORS/TRIGGERS: User queries a string that doesn't match artists on any streaming services.

Functional Req 9.

IDENTIFIER: **Valid Album Search Results**

DESCRIPTION: When a user chooses to query an album, and results for that album indeed exist, then they will be taken to a new page and presented with a list of albums of that name.

PURPOSE: To give the user a list of common albums matching the desired name.

I/O: I/O

ACTORS/TRIGGERS: User queries an album that is present on streaming services

Functional Req 10.

IDENTIFIER: **Invalid Album Search Results**

DESCRIPTION: When a user chooses to query an album, and no results for that name are found, then they will be taken to a new page and presented with "no albums found".

PURPOSE: To inform the user that their query did not return any results.

I/O: I/O

ACTORS/TRIGGERS: User queries a string that doesn't match albums on any streaming services.

Functional Req 11.

IDENTIFIER: **Unique Link Generation**

DESCRIPTION: When a user has a list of results from a valid query, they are able to click "generate link" for the desired result, which they can then copy and share with anyone

PURPOSE: A unique link for a song, artist, or album is a more compact, easier way to share music with a friend.

I/O: I/O

ACTORS/TRIGGERS: User queries a valid song, artist, or album and is on the results page.

Functional Req 12.

IDENTIFIER: **Create User**

DESCRIPTION: On the homepage, there are fields and a submission button for creating an account

PURPOSE: User can have an account registered with the service, which will automatically keep track of all links and the date in which they are generated

I/O: I/O

ACTORS/TRIGGERS: User is on homepage

Functional Req 13.

IDENTIFIER: **User Login**

DESCRIPTION: On the homepage, there are fields and a submission button for logging in as user

PURPOSE: User can have an account registered with the service, which will automatically keep track of all links and the date in which they are generated

I/O: I/O

ACTORS/TRIGGERS: User is on homepage

Non-Functional Requirements

Non-Functional Req 1.

IDENTIFIER: **REQUIREMENT NAME**

DESCRIPTION: Description

PURPOSE: Purpose

I/O: I/O

ACTORS/TRIGGERS: Actors/Triggers

Non-Functional Req 2.

IDENTIFIER: **REQUIREMENT NAME**

DESCRIPTION: Description

PURPOSE: Purpose

I/O: I/O

ACTORS/TRIGGERS: Actors/Triggers

Non-Functional Req 3.

IDENTIFIER: **REQUIREMENT NAME**

DESCRIPTION: Description

PURPOSE: Purpose

I/O: I/O

ACTORS/TRIGGERS: Actors/Triggers

Non-Functional Req 4.

IDENTIFIER: **REQUIREMENT NAME**

DESCRIPTION: Description

PURPOSE: Purpose

I/O: I/O

ACTORS/TRIGGERS: Actors/Triggers

Non-Functional Req 5.

IDENTIFIER: **REQUIREMENT NAME**

DESCRIPTION: Description

PURPOSE: Purpose

I/O: I/O

ACTORS/TRIGGERS: Actors/Triggers

Non-Functional Req 6.

IDENTIFIER: **REQUIREMENT NAME**

DESCRIPTION: Description

PURPOSE: Purpose

I/O: I/O

ACTORS/TRIGGERS: Actors/Triggers

Non-Functional Req 7.

IDENTIFIER: **REQUIREMENT NAME**

DESCRIPTION: Description

PURPOSE: Purpose

I/O: I/O

ACTORS/TRIGGERS: Actors/Triggers

Non-Functional Req 8.

IDENTIFIER: **REQUIREMENT NAME**

DESCRIPTION: Description

PURPOSE: Purpose

I/O: I/O

ACTORS/TRIGGERS: Actors/Triggers

Non-Functional Req 9.

IDENTIFIER: **REQUIREMENT NAME**

DESCRIPTION: Description

PURPOSE: Purpose

I/O: I/O

ACTORS/TRIGGERS: Actors/Triggers

Non-Functional Req 10.

IDENTIFIER: **REQUIREMENT NAME**

DESCRIPTION: Description

PURPOSE: Purpose

I/O: I/O

ACTORS/TRIGGERS: Actors/Triggers