# **Stack Underflow**

SENG2021 - REQUIREMENTS AND DESIGN WORKSHOP 21T1 DELIVERABLE 1

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# **Short Summary**

#### Motivation

Ever since the pandemic made travel almost impossible (also people who never had the ability to travel) people across the world felt lonely locked up in their houses. As a result, people who love travelling and other people in general felt disconnected from society and the world.

In addition, the importance of music and its true meaning to an individual is often overlooked in modern web applications such as soundcloud, spotify, facebook. Music brings out emotions and is often intertwined with past experiences such as travel, culture, history, and enjoyment.

Our platform is purely focused on providing users with a place to share music and explain its meaning to them from all around the world. Being dedicated to sharing these important personal thoughts, our users will get the chance to be heard without judgement that is often found in more popular websites.

#### **Our Solution**

Our application directly focuses on providing users with a place to share personal experiences through music. The main feature of our application is an interactive world map where a user will be able to see tags on multiple locations. These tags are posts people have shared from all around the world. Each tag contains an attached spotify song, an image and a personal message written by each user.

Within our application, a user can also explore different cultures and find new music from all around the world, as each song posted will provide its meaning and interpretation alongside. People are redundant to music types from other cultures that they are not interested in, our application makes it easier for users to find understanding within these new genres.

# **Problem Statements**

- 1. There is no platform solely dedicated to users sharing stories and personal experiences through music.
- 2. Individuals often find it hard to find new types of music from around the world.
- 3. Similar social media platforms are visually messy, cluttered, and distracting to the users.
- 4. There is no platform presenting users with a direct visualisation of the real locations of the posts through a map.
- 5. People are losing their connection to their own culture as they are not exposed to their traditional music enough.
- 6. People who lack understanding of a particular culture often find it difficult to connect with their particular genre of music.

# **Target Audience**

- Music Enthusiasts
- Artists
- People who want to get in touch with their culture
- People who want to explore the world through history
- Aspiring travelers

# **User Stories**

**Note:** 1 Story Point (or SP) = 1 hour of work

**Note on priorities:** Denotes the order in which user stories will be completed, lower

value means higher priority

### **Requirement 1: Authentication:**

As a user, I want to have an authenticated account so that I can access all the features on the site

Feature 1.1 Sign up for a new account

Story 1.1.1:

As a User

I want to Sign up to the platform
So that I can access all the features on the platform

**Priority**: 2

Story Points: 6

Scenario: User tries to sign up to the platform

Given: I am at the sign in portal

And: I am not logged in

When: I enter my newly created username and password

And: Click on the "Sign Up" button

**Then:** I should be signed up to the platform

And: Should be redirected to my new personal dashboard

### Feature 1.2 Log in and log out my account

# **Story 1.2.1**

As a User

I want to Be able to login with a user id and password So That I can access content saved and personalized for me

Priority: 2

**Story Points: 4** 

Scenario: User tries to sign into the platform

Given: I am at the Login portal

When: I enter the correct user id and password

And: Click the "Login" button

Then: I should be logged in to the platform

And: Redirected to my personalized dashboard

### **Story 1.2.2**

As a User

I want to Be prevented from logging in with the incorrect credentials So That I can make sure that my account cannot be accessed without my user id and password.

**Priority**: 2

**Story Points: 1** 

Scenario: User fails to log in to the platform

Given: I am at the login portal

When: I enter the incorrect user id and password combination

And: Click the "Login" button

Then: An error pops up

And: does not allow me to log in.

# Feature 1.3 Reset my password if I forget my password

# **Story 1.3.1**

As a User

I want to be able to reset my password

So that I don't lose my data if I forget my password

**Priority**: 5

**Story Points:** 6

Scenario: User resets their password

**GIVEN:** I am on the sign in page

AND: I am not logged in

WHEN: I click on the "Forgot Password" button

**THEN:** I will be sent an email which I can then use to securely

change my password

# Feature 1.4 Link to my Spotify account

# **Story 1.4.1**

As a User

I want to link my Spotify account to my account So that I can access my Spotify playlists seamlessly

**Priority:** 3

**Story Points:** 5

**Scenario:** User links their account to the app

**GIVEN:** I am on the sign up page for the platform

WHEN: I click 'Next' button

**THEN:** I am redirected to the "Link to Spotify Account" page

WHEN: I click "Link to Spotify" button

THEN: A spotify OAUTH page will pop up

WHEN: I log in to my spotify account on the page

**THEN:** My spotify account would be linked to the platform

#### **Account Management & Preferences:**

As a user, I can use settings so that I can change my profile details and other settings based on my habit.

#### Feature 2.1 Change my password

**Story 2.1.1** 

As a User

I want to change my password

So that I can keep my account secure

**Priority:** 5

Story Points: 3

Scenario: User changes their password to "hunter2"

**GIVEN:** When I am on the Profile page

**WHEN:** I enter my new password (hunter2) in the password box

**AND:** I click on the "Change Password" button **THEN:** My password will be updated to "hunter2"

## Feature 2.2 Change my username

**Story 2.2.1** 

As a User

I want to change my username

**So that** I can customize my appearance to other people on the platform

**Priority:** 6

Story Points: 3

**Scenario:** User changes their username to "AzureDiamond"

**GIVEN:** I am on the profile page **AND:** Under the "My Profile" tab

WHEN: I enter my new username (AzureDiamond) in the username

box

**AND:** I click "Change Username" button

**THEN:** My username will be updated to "AzureDiamond"

#### **Feature 2.3** View notifications (comments, likes, titles)

# **Story 2.3.1**

As a User

I want to be able to check notifications

**So that** I can be up-to-date on any comments, likes, or titles that I receive

**Priority:** 6

**Story Points: 4** 

Scenario: User views their notifications

**GIVEN:** I am on the Profile page **WHEN:** I click "Notifications" tab

THEN: I will see all the notifications in a list

# Feature 2.4 View all my tags

# **Story 2.4.1**

As a User

I want to be able to check all my tags

So that I review what I have shared in the past

**Priority:** 4

Story Points: 4

Scenario: User tries to view all his tags

GIVEN: I am on the profile page

WHEN: I click 'My tags' tab

THEN: I will see all my tags in a list

## Feature 2.5 Set the website to light/dark mode

# **Story 2.5.1**

As a User

I want to be able to change the view mode

**So that** I can switch to the mode that is suitable for the lightness of my environment

**Priority**: 6

Story Points: 8

**Scenario:** User tries to change from light mode to dark mode

**GIVEN:** I am on the settings page **WHEN:** I see light mode is on **AND:** I click on the switch

**THEN:** The mode will be changed to dark mode

# Feature 2.6 Change default setting for showing the side menu

# **Story 2.6.1**

As a User

I want to be able to change whether the side menu is displayed on default

**So that** I can always have a clear view on the map on the homepage

**Priority**: 6

Story Points: 6

Scenario: User tries to change the setting for side menu

**GIVEN:** I am on the settings page

**WHEN:** The side menu is set to be displayed on default

AND: I click on the switch

**THEN:** The setting will be turned off

#### Feature 2.7 Change the display language

# Story 2.7.1

As a User

I want to be able to change the display language to my home language

**So that** I can better under the website and the posts

**Priority**: 6

Story Points: 6

**Scenario:** User tries to change the display language

**GIVEN:** I am on the settings page

WHEN: I select a language that I want to use

**THEN:** The website will be displayed in the language I selected

# Home page and dashboard:

As a user, I want to have a clear and visually satisfying homepage so that I can see every button clearly.

## Feature 3.1 Check the about page to learn about the website

### **Story 3.1.1**

As a User

I want to check the about page of the website

**So that** I can get more information about the motivation and team behind the website

**Priority:** 4

**Story Points: 2** 

**Scenario:** User looks at what the website is about

**GIVEN:** I am on the home page and not signed in

WHEN: I click on 'More info' button

**THEN:** I will be redirected to the about page

# Feature 3.2 Explore tags by generating random tags

## **Story 3.2.1**

As a User

I want to generate random tags

So that I can explore random posts from all over the world

**Priority**: 6

Story Points: 6

**Scenario:** User tries to generate random tags

GIVEN: I am on the home page

WHEN: I click on 'Generate random tag' button

**THEN:** I will be redirected to a page where a list of random post is

shown

# **Feature 3.3** Explore tags by panning over the world map

## **Story 3.3.1**

As a User

I want to be able to pan around the map

**So that** I can explore different parts of the world and view people's tags

**Priority: 2** 

Story Points: 8

**Scenario:** User tries to view a tag on the map

**GIVEN:** I am on the home page

WHEN: I click somewhere on the map

**AND:** hold onto the map

**THEN:** I will be able to move my view around on the map

WHEN: I click a tag on the map

**THEN:** A new window will pop out showing the post I clicked on

#### Feature 3.4 Hide the side menu for better view

#### **Story 3.4.1**

As a User

I want to hide the side menu (toggle list) to the side of the website So that I can have a better view on the map

**Priority:** 4

**Story Points: 4** 

Scenario: User tries to hide the side menu

**GIVEN:** I am on the home page

**WHEN:** I click on the 'Hide' button of the side menu **THEN:** The side menu will be hidden to the side

#### Feature 3.5 Get support from the help page

## **Story 3.5.1**

**As a** User

I want to check the help page

**So that** it can help me navigate the site in case I need support

**Priority: 6** 

**Story Points: 4** 

**Scenario:** User accesses the help page for support with sign up

Given: I am on the sign-up page

WHEN: I have trouble with entering details

AND: I click on "Help" button in the navigation bar

THEN: I will be redirected to the help page

#### Post creation:

As a user, I want to be able to create a post so that I can share music and my thoughts with other people

Feature 4.1: Add a message to a new tag

**Story 4.1.1** 

As a user

I want to be able to add a message to a new post I am creating So that I can explain some experience or thought I have

**Priority: 4** 

Story Points: 4

Scenario: User clicks on new post

**GIVEN:** I click "create new post" in the homepage **WHEN:** I insert a message in the box and submit **THEN:** The post will contain the message I just added

Feature 4.2: Attach a Spotify link to a new tag

**Story 4.2.1** 

As a user

I want to be able to attach a Spotify song to my post So that I can share it with others

Priority: 4

**Story Points: 4** 

**Scenario:** Creating a new post

**GIVEN:** I click "create new post" in the homepage

WHEN: I click on "Add song"

**THEN:** I will be redirected to Spotify where I can pick the song I

want to include in my post

#### Feature 4.3: Attach an image to a new tag

# **Story 4.3.1**

As a user

I want to be able to attach an image to my post

So that I can share a particular memory or experience

**Priority: 4** 

Story Points: 4

**Scenario:** Creating a new post

GIVEN: I click "create new post" in the homepage

WHEN: I click on "upload image" and choose an image from my

computer

**THEN:** The image will be loaded to my post

#### Feature 4.4 Discard my tag

#### **Story 4.4.1**

As a User

I want to Be able to discard my tag

So that When I am not satisfied with my tag I do not have to keep it

**Priority: 2** 

**Story Points: 2** 

Scenario: User wants to discard a tag when making it

**Given:** I am on the tag page **WHEN:** I click on 'discard' button **THEN:** The tag will be discarded **AND**: The window will be closed

#### Feature 4.5: Preview my tag

# **Story 4.5.1**

As a user

I want to be able to preview my post

So that I can check if I have made mistake in my post

**Priority: 4** 

Story Points: 4

**Scenario:** User previews his post

**GIVEN:** I have drafted my post **WHEN:** I click on 'Next' button

**THEN:** I will be redirected to the preview page of my post

#### Feature 4.6 Publish my tag

### **Story 4.6.1**

As a user

I want to be able to publish my post

**So that** I can share my post to people around the world on the platform

**Priority:** 4

**Story Points: 4** 

Scenario: User publishes his post

**GIVEN:** I have previewed my post **WHEN:** I click on 'Publish' button

**THEN:** I will be redirected to the page of my published post

WHEN: I click on 'Back' button

**THEN:** I will be redirected to the home page

#### Interaction:

As a user, I want to be able to interact with posts so that I can engage with other people around the world.

Feature 5.1: Like a post

**Story 5.1.1** 

As a user

I want to be able to 'Like' a post

**So that** I can engage with other people's posts

Priority: 4

Story Points: 4

Scenario: User clicks the Like button when viewing a post

**GIVEN:** I am viewing a tag that I like

WHEN: I click on "Like" button

**THEN:** The tag will have my like added to it

Feature 5.2: Comment on a post

**Story 5.2.1** 

As a user

I want to be able to comment on a post

**So that** I can interact with other people and share my thoughts

**Priority:** 3

Story Points: 6

**Scenario:** User comments "Nice" on a tag

**GIVEN:** I am viewing a tag that I like **WHEN:** I click on the comment box

**THEN:** It gets highlighted **WHEN:** I type in "Nice"

AND: Click "Comment"

**THEN:** My comment gets posted under the tag, with the content

"Nice"

## Feature 5.3: Play song attached to post

# **Story 5.3.1**

As a user

I want to play the music attached in a tag

**So that** I can enjoy new music people have shared and learn more about it

**Priority:** 3

Story Points: 6

Scenario: User listens to the song "Lonely" in the tag

GIVEN: I am viewing a tag with the song "Lonely" attached

WHEN: I click on the "Play" button

**THEN:** The song "Lonely" starts playing

AND: The play button is replaced by a progress bar for the song

Note: Song "Lonely" by Lauv feat. Anne Marie

### Searching for posts:

As a user I want to be able to search for posts with filters I chose, so that I can find things that really interest me.

#### Feature 6.1: Filter for certain posts to appear on the map

#### **Story 6.1.1**

As a user

I want to filter out the tags that are presented on map

So that I can find the post that I'm interested in

**Priority:** 4

**Story Points: 4** 

Scenario: Searching for specific posts

**GIVEN:** I am on the homepage

WHEN: I zoom into a specific country

THEN: I filter for a specific genre of music, culture or time of

creation

AND: I click confirm

**THEN:** I will see music and posts based on what I searched for

Feature 6.2: Search for tags and music

# **Story 6.2.1**

As a user

**I want to** be able to search for tags based on music genre, language, date etc

So that I can find explore music and tags based on these filters

**Priority:** 4

**Story Points:** 4

**Scenario:** Searching for tags and music

**GIVEN:** I am on the search page **WHEN:** I select the filters I want

**THEN:** I will be shown posts related to my search only

# **Low-Fidelity Prototype**

The Low-Fidelity Prototype document can be found in *Deliverables/LowFidelityFINAL.pdf* in the Github. The application used for our low-fidelity is Balsamiq.

Link: https://github.com/AD9000/Stack Underflow/blob/dev/Deliverables/LowFidelityFINAL.pdf

Inside the Low-Fidelity Prototype document, there are three diagrams:

- 1. Prototypes: The final LoFi prototypes depicting each screen on a separate page.
- 2. <u>Lofi Storyboard Diagrams</u>: A flowchart of the screens and the UI components that lead the user to different areas of the application.
- 3. <u>Lofi Component Interaction Graph</u>: A flowchart of the different components and how they are connected.

#	Feature	Depicted in Prototype Screen	Page
1.1	Register for a new account	Register	4
1.2	Log in and log out my account	Log In	3
1.3	Reset my password when I forget my password	Help Page	22
1.4	Link to my Spotify account	Register (spotify)	5-6
2.1	Change my password	Profile Settings - My Profile	23
2.2	Change my username	Profile Settings - My Profile	23
2.3	View notifications (comments, likes, titles)	Profile Settings - Notifications	25
2.4	View all my tags	Profile Settings - View My Tags	25
2.5	Set the website to light/dark mode	General Settings	27
2.6	Change default setting for showing the side menu	General Settings	27
2.7	Change the display language	General Settings	27
3.1	Check About page to learn about the website	About Page	21
3.2	Explore tags by generating random tag	Generate Random Tag	2

3.3	Explore tags by panning over the world map	Homepage(signed in)	7
3.4	Hide the side menu for better view	Homepage(signed in)	7
3.5	Seek help from the help page	Help Page	22
3.5	Search tags by filtering by music genre	Homepage(signed in)	7
4.1	Add a message to a new tag	Add a New Tag	17
4.2	Attach a Spotify link to a new tag	Add New Tag (Select song from Spotify)	15-16
4.3	Attach image to a new tag	Add a New Tag	18
4.4	Discard my tag	Add a New Tag	17
4.5	Preview my tag	Add a New Tag (Review)	19
4.6	Publish my tag	Add a New Tag (Published)	20
5.1	Like a post	Add a New Tag (Published)	20
5.2	Comment on a post	Add a New Tag (Published)	20
5.3	Play song attached to post	Add a New Tag (Published)	20
6.1	Filter for certain posts to appear on the map	Homepage(signed in)	7
6.2	Search for tags and music	Homepage(signed in)	7

# **High-Fidelity Prototype**

The High-Fidelity Prototype files can be found in *Deliverables/HighFidelityChart.pdf* and *Deliverables/HighFidelityPages.pdf* in Github. These are the finalised designs of our application,

where there were significant changes made from the low-fidelity to the high-fidelity. The application used for our high-fidelity is Figma.

#### Links:

https://github.com/AD9000/Stack\_Underflow/blob/dev/Deliverables/HighFidelityPages.pdf https://github.com/AD9000/Stack\_Underflow/blob/dev/Deliverables/HighFidelityChart.pdf

#### The documents:

- 1. <u>HiFi Pages</u>: The final HiFi prototypes depicting each screen on a separate page.
- 2. <u>HiFi Flow Chart</u>: provides information in relation to the connections of each screen and how they interact with each other.

#	Feature	Depicted in Prototype Screen	Page
1.1	Register for a new account	Register	4
1.2	Log in and log out my account	Log In	3
1.3	Reset my password when I forget my password	Help Page	18
1.4	Link to my Spotify account	Register (spotify)	5
2.1	Change my password	Profile Settings - My Profile	23
2.2	Change my username	Profile Settings - My Profile	23
2.3	View notifications (comments, likes, titles)	Profile Settings - Notifications	20
2.4	View all my tags	Profile Settings - View My Tags	21
2.5	Set the website to light/dark mode	General Settings	22
2.6	Change default setting for showing the side menu	General Settings	22
2.7	Change the display language	General Settings	22
3.1	Check About page to learn about the website	About Page	17
3.2	Explore tags by generating random tag	Generate Random Tag	2
3.3	Explore tags by panning over the world	Homepage (popped out side	6

	тар	menu)	
3.4	Hide the side menu for better view	Homepage	9
3.5	Seek help from the help page	Help Page	18
3.5	Search tags by filtering by music genre	Homepage(signed in)	7
4.1	Add a message to a new tag	Add a New Tag	13
4.2	Attach a Spotify link to a new tag	Add New Tag (Select song from Spotify)	15
4.3	Attach image to a new tag	Add a New Tag	13
4.4	Discard my tag	Add a New Tag	13
4.5	Preview my tag	Add a New Tag (Review)	14
4.6	Publish my tag	Add a New Tag (Review)	14
5.1	Like a post	Add a New Tag (Published)	16
5.2	Comment on a post	Add a New Tag (Published)	16
5.3	Play song attached to post	Add a New Tag (Published)	16
6.1	Filter for certain posts to appear on the map	Homepage (popped out side menu)	6
6.2	Search for tags and music	Homepage (popped out side menu)	6