Final Report

Group 11 (Youwen Xiao)

# MUTOPIA

Project

#### **Overview**

The Mutopia Project is a free sheet music website that I accidentally discovered. On this website, users can search directly or select instruments, composers, and styles to find the sheet music they need, and quickly download the required file format. Users can also upload music scores to the website without copyright issues. The navigation of the Mutopia Project is poorly designed, with important content placed in other locations instead of being in the navigation bar, and the navigation bar itself contains too much redundancy. This sometimes forces users to spend more time browsing the website to find the sheet music they need.

In this project, I hope to redesign this online free sheet music website and reconfigure the navigation bar and website content to make it easier to use.

#### The main functions of Mutopia:

- 1. Enable users to find the sheet music they desire.
- 2. Enable users to contribute sheet music that is not available on the website.

#### **Personas:**

Name: Chiaki Shinichi

Chiaki Shinichi is a young conductor. The day before an important concert, he lost his score. As the sheet music store in the city had already closed in the evening, he had to look for a sheet music website to download and print the score he needed.

Name: Isaac

Isaac is a student at a music college. He once downloaded the sheet music for Bach's Cello Suites from the Mutopia Project website. His classmate sent him a clearer version of the sheet music recently, and he hopes to upload this better version to the Mutopia Project so that more people can access it.

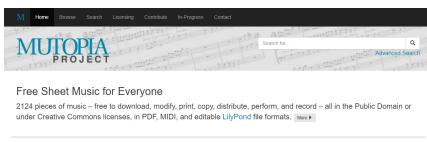
#### **Research Methods:**

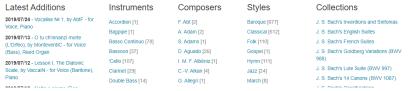
- Content Inventory
- Card Sorting
- Information Architecture Testing
- First-click Testing
- Usability Testing

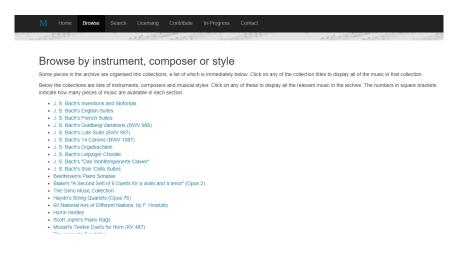
# **Problem of Mutopia**

The sheet music website needs to provide users with access to various music compositions from different instruments, countries, styles, composers, and time periods. If developers want to make this website more user-friendly, they need to consider how to provide an intuitive and convenient way for users to explore. Mutopia has some design issues that make it difficult for users to use.

The two screenshots on the right are good examples. Mutopia separates these categories into two different web pages, which may lead users to believe that one of the pages represents all the types.







#### Goal

My goal is not only to address these current issues but also to make this website more user-friendly through redesign. I will modify some navigation bars to make the website more intuitive. I will also completely redesign the entire navigation bar regarding the functionality of searching for sheet music to improve it.



# **Card Sorting 1**

	About	Styles	Licensing & Coo	Nationality	Time Period	Instruments	Contribute	I don't know	unsorted		About	Styles	Licensing & amp;	Nationality	Time Period	Instruments	Contribute	I don':t know	unsorted
Popular		7								FAQ	100%								
License Details			6	1						Site Support	86%						14%		
Classical		7								Connect	71%		14%					14%	
Jazz		7								Mailing List	71%		14%				14%		
Brass		1				6				Classical		100%							
Woodwind						6		1		Jazz		100%							
String						7				Popular		100%							
Medieval & Renaissance 476-1600					7					Rock		100%							
Baroque 1600-1760					7					Romantic		100%							
Classical 1730-1820					7					License Details			86%	14%					
Romantic 1815-1910					7					Other Sheet Music Sites List	14%		57%				14%	14%	
modern After 1900					7					American		14%		86%					
German		1		6						Asian		14%		86%					
European		1		6						European		14%		86%					
American		1		6						French		14%		86%					
Asian		1		6						German		14%		86%					
French		1		6						Italian		14%		86%					
Italian		1		6						Baroque 1600-1760					100%				
Mailing List	5		1				1			Classical 1730-1820					100%				
Other Sheet Music Sites List	1		4				1	1		Medieval & Renaissance 476-1600					100%				
Typeset Music		2					5			Romantic 1815-1910					100%				
Percussion		1				6				modern After 1900					100%				
Proofread/Check Music							4	3		String						100%			
Upload New Sheet Music							6	1		Brass		14%				86%			
Romantic		7								Percussion		14%				86%			
Rock		7								Woodwind						86%		14%	
Site Support	6						1			Update Sheet Music							100%		
FAQ	7									Upload New Sheet Music							86%	14%	
Update Sheet Music							7			Typeset Music		29%					71%		
Connect	5		1					1		Proofread/Check Music							57%	43%	

People can reach a consensus on the classification of music. However, there are some disagreements regarding the categorization of Typeset Music and Proofread/Check Music.

Regarding Typeset Music, I believe some of the testers misunderstood it as a music type. Therefore, I should modify the name to help testers understand its purpose correctly.

# **Card Sorting 2**

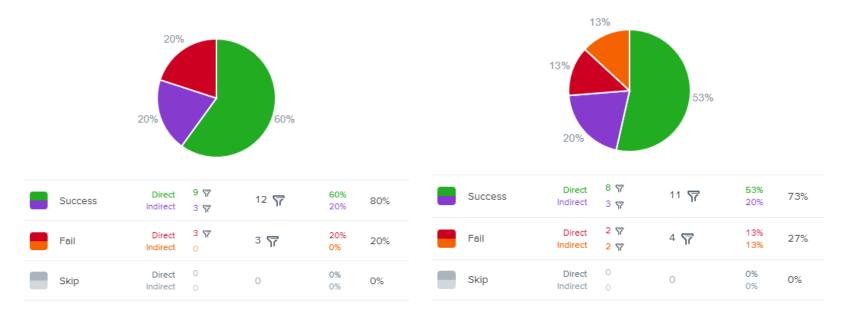


In the second round of testing, I removed "Proofread/Check Music," changed "Typeset Music" to "Typeset Sheet Music," replaced "connect" with "categories" on the card and added "Inprogress Upload Item". The second Card Sorting was much better than the first one. Although there were still not enough participants, their choices aligned with my expectations. Therefore, I have decided to use it to design my website.

# Treejack 1

I have conducted a survey to determine how many testers have previously used a sheet music website, and the results indicate that most people have not used one before. That is interesting.





The first Treejack test went poorly as many users did not make the choices I expected.

Both of these tasks are related to two main functions of the website, so this test is meaningful. I discovered some issues when I reviewed the user paths.

In Task 1, many participants chose to search for string instrument sheet music. This approach is feasible in actual usage, so I consider it as a pass in the test. However, to ensure the completeness of the test, I will make some modifications in the second round of testing.

In Task 2, I noticed that some participants seemed unaware that uploading sheet music required using the "Contribute" button. Therefore, I believe adding an explanation on the webpage could address this issue.

Result 💠	# of Participants 💠	Path 🗘
Direct success	9 (60%)	Home Page > Sheet Music > Instruments > String
Indirect success	1 (7%)	Home Page > Search < Home Page > Sheet Music > Instruments > String
Indirect success	1 (7%)	Home Page > Sheet Music < Home Page > Sheet Music > Instruments > String
Indirect success	1 (7%)	Home Page > Search < Home Page > Home < Home Page > Sheet Music < Home Page > Contact > Other Sheet Music Sites List < Contact > Mailing List < Home Page > About < Home Page > Contribute > Upload New Sheet Music < Contribute < Home Page > About < Home Page > About < Home Page > Contact > Other Sheet Music Sites List < Home Page > Sheet Music > Instruments > String < Sheet Music > Instruments > String
Direct failure	3 (20%)	Home Page > Search

## Treejack 2

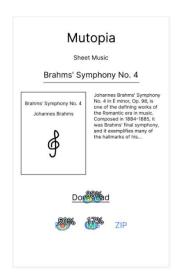


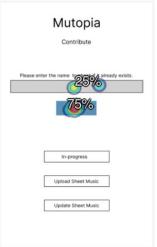
The second round of Treejack testing was very close to success. All participants were able to find the string instrument section in different ways. Although there were still two participants who couldn't find the correct location to upload sheet music, it was a significant improvement compared to the first time.

#### **First Click**

Task 1 is to have participants select the location to download the current sheet music from the download page. Unfortunately, 33% of participants clicked on the download icon instead of the three file formats. I believe the actual webpage should remove the underline or make it appear less like a clickable button.

Task 2 is to have participants select the position where the sheet music exists. So far, all participants have found the correct position.





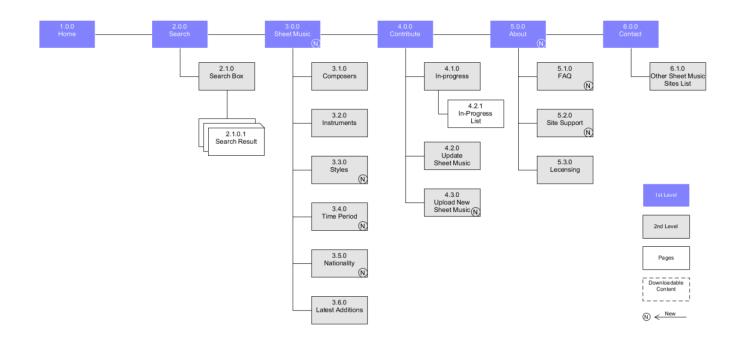
# **Free Listing**

#### click here for free listing

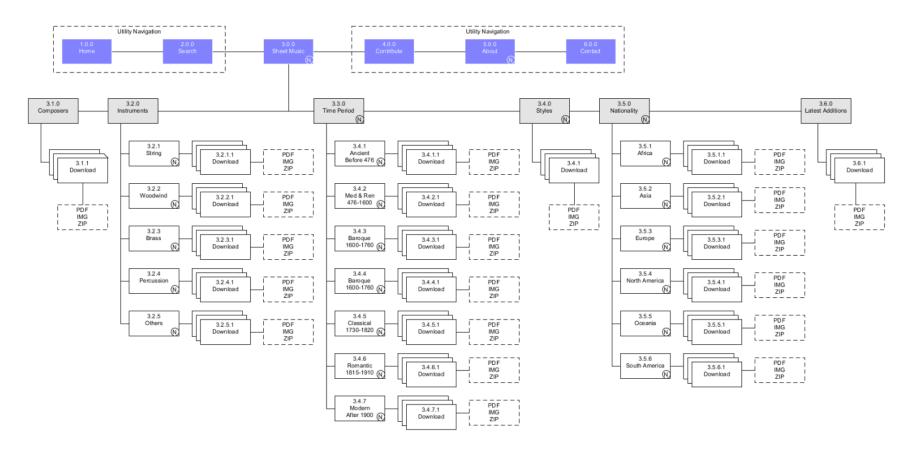
ID	Тор	2nd	3rd	4th
1.0.0	Home			
2.0.0	Search			
2.1.0		Search Box		
2.1.1			Search Result	
3.0.0	Sheet Music			
3.1.0		Composers		
3.1.1			Download	
3.2.0		Instruments		
3.2.1			String	
3.2.1.1				Download
3.2.2			Woodwind	
3.2.2.1				Download
3.2.3			Brass	
3.2.3.1				Download
3.2.4			Percussion	
3.2.4.1				Download
3.2.5			Others	
3.2.5.1				Download
3.3.0		Time Period		
3.3.1			Ancient Before 476	
3.3.1.1				Download
3.3.2			Med & Ren 476-1600	
3.3.2.1				Download
3.3.3			Baroque 1600-1760	
3.3.3.1				Download
3.3.4			Baroque 1600-1760	

This chart can be viewed together with the Sitemap, which lists all the locations regarding the navigation bar and categories.

## **Sitemap**



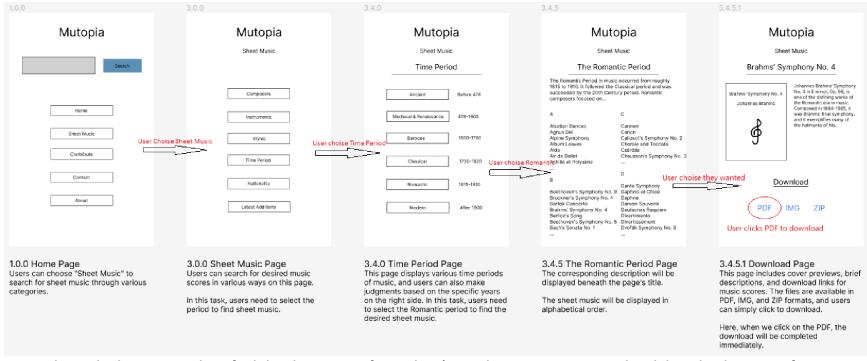
The navigation bar is divided into six sections, with the most important ones being the Search, Sheet Music, and Contribute sections, which serve specific functions. In the Contribute section, users can view ongoing projects and update or upload sheet music to Mutopia.



Although the Sheet Music section may appear complex, all branches primarily rely on six sections: Composers, Instruments, Time Periods, Styles, Nationalities, and Latest Additions. Different categories may link to the download page of the same sheet music, and users have three formats of sheet music available for download: PDF, IMG, and ZIP. Considering that some chamber music and large ensemble music pieces may have multiple instrument parts, the ZIP format is necessary.

### **Key Task 1:**

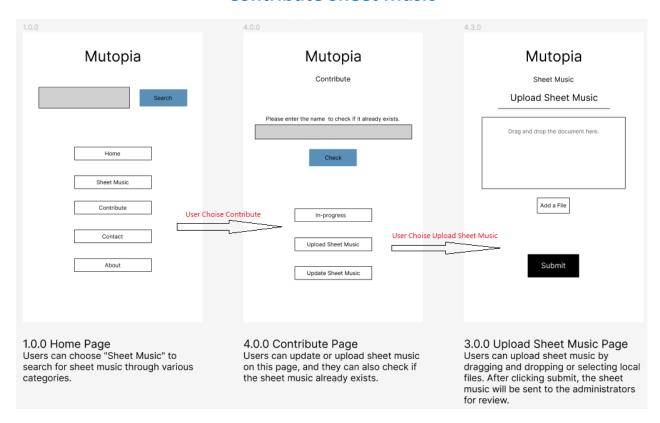
#### **Download Sheet Music**



In this task, the user needs to find the sheet music for Brahms' Symphony No. 4 via period and download it in PDF format.

## **Key Task 2:**

#### **Contribute Sheet Music**



In this task, users can contribute to the website by uploading new sheet music.

### Retrospective

During the process of completing this project, I made a lot of mistakes, such as forgetting to conduct a second round of testing and not saving the revision history of the site map, among others. It was more challenging to accomplish this task alone than I had imagined, but in the end, I managed to do it. When I first discovered that the Treejack I considered to be quite perfect still had issues that could mislead participants, I thought of many ways to solve this problem, and each iteration of the current task brought me joy.

When designing the site map, I need to ensure that each category is logically organized. Additionally, I consider whether users can easily accomplish key tasks during each iteration.