Iteration 3

CIS 320-02

Team: BusinessFirst

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System Requirements

Functional Requirements

Event Calendar

ID: SR001 – The event calendar will display upcoming events.

ID: SR002 – The event calendar will display volunteer opportunities.

ID: SR003 – The event calendar will allow users to RSVP.

ID: SR004 – The event calendar will send users event reminders.

Volunteer Sign-Up

ID: SR005 – The volunteer sign-up will facilitate the process for users to register.

ID: SR006 – The volunteer sign-up will automatically confirm registrations.

Mobile Optimization

ID: SR007 – The mobile optimization will have a responsive design for mobile users.

ID: SR008 – The mobile optimization will maintain useability without sacrificing functionality.

Content Management System

ID: SR009 – The content management system will empower staff to easily update blogs.

ID: SR010 – The content management system will empower staff to easily update events.

ID: SR011 – The content management system will empower staff to easily update project reports.

ID: SR012 – The content management system will require no technical expertise.

Project Showcase

ID: SR013 – The project showcase will highlight current projects.

ID: SR014 – The project showcase will highlight completed projects.

ID: SR015 – The project showcase will increase transparency.

ID: SR016 – The project showcase will increase community engagement.

Social Media Integration

ID: SR017 – The social media integration will integrate social media links.

ID: SR018 – The social media integration will integrate social media feeds.

ID: SR019 – The social media integration will improve engagement.

ID: SR020 – The social media integration will improve visibility.

Newsletter Sign-Up

ID: SR021 – The newsletter sign-up will provide users with the ability to subscribe to email updates.

ID: SR022 – The newsletter sign-up will ensure supporters are informed about the latest news.

ID: SR023 – The newsletter sign-up will ensure supporters are informed about the latest opportunities.

Donation integration

ID: SR024 – The donation integration will provide an ease-of-use donation platform.

ID: SR025 – The donation integration will provide a secure donation platform.

ID: SR026 – The donation integration will allow one-time donations.

ID: SR027 – The donation integration will allow recurring donations.

ID: SR028 – The donation integration will be integrated with PayPal.

Song Catalog

ID: SR029 – The song catalog will list a number of songs made by youth participants.

ID: SR030 – The song catalog will have pause/play functionality.

ID: SR031 – The song catalog will have a volume slider.

ID: SR032 – The song catalog will have a share button for each song

Contact Form

ID: SR033 – The contact form will provide a simple outlet for questions

ID: SR034 – The contact form will increase community engagement

ID: SR035 – The contact form will provide opportunities for sponsors or partners to reach out

ID: SR036 – The contact form will have the option for submission to be viewed via email or Wix dashboard

Non-Functional Requirements

Sponsor Banner

ID: SR037 – The sponsor banner will show all organizations that have chosen to sponsor.

Reviews Section

ID: SR038 – The review section will show testimonies from youth participants and parents regarding their experiences with Worth the Words

Volunteer Hours Display

ID: SR039 - The volunteer hours widget will display the number of volunteer hours worked by

Worth the Words volunteers

Use Cases

Use Case 1: View Song Catalog

Primary Actor: User

Description: User can view the song catalog listed on the website

Risk Level: Low

Use Case 2: Listen To Songs

Primary Actor: User

Description: User can click on different songs made by youth artists from the organization

Risk Level: Low

Use Case 3: Manage Song Catalog

Primary Actor: Admin

Description: Admin can add or remove songs from the song catalog

Risk Level: High

Use Case 4: Change Song Volume

Primary Actor: User

Description: User can use the volume slider to change the volume of the current song being

played

Risk Level: Low

Use Case 5: Share a Listed Song

Primary Actor: User

Description: User can click a button to share a song via social media

Risk Level: Low

Use Case 6: View Program/Workshop Info

Primary Actor: User

Description: Curious users can view the information regarding provided programs and

workshops

Risk Level: Low

Use Case 7: Modify Program/Workshop Info

Primary Actor: Admin

Description: Admin can modify the information regarding the programs and workshops provided

Risk Level: High

Use Case 8: Modify Layout/Fields of Contact Form

Primary Actor: Admin

Description: Admin has capability of modifying the layout of the contact form if necessary

Risk Level: High (Contact form is critical to the system)

Use Case 9: Fill out fields in contact form

Primary Actor: User

Description: Users can fill out information in the contact form prior to clicking the submit button

Risk Level: Low

Use Case 10: Submit Contact Form

Primary Actor: User

Description: If the user has already filled out the fields in the contact form and ready to contact

Worth the Words, they may click the submit button

Risk Level: Low

Use Case 11: Read Contact Form Submissions

Primary Actor: Admin

Description: After users submit their contact forms, the admin can read the submissions.

Risk Level: High (Could possibly contain sensitive data)

Use Case 12: Check/Uncheck Recurring Donation Box

Primary Actor: User

Description: Prior to submitting their donation, a user can make the donation recurring.

Risk Level: High (Want to make sure the box is unchecked by default)

Use Case 13: Donate with PayPal

Primary Actor: User

Description: Users clicks option of donating with their PayPal account

Risk Level: High (Data security)

Use Case 14: Donate with Debit or Credit Card

Primary Actor: User

Description: Users clicks option of donating with Debit or credit card.

Risk Level: High (Data security)

Use Case 15: Donation Submit Button

Primary Actor: User

Description: After users fill out their donation information, they click the submit button

Risk Level: High (Data security)

Use Case 16: Accept Donations

Primary Actor: Admin

Description: Administrator accepts the donation from PayPal's PMS

Risk Level: High (Data security)

Use Case 17: Change Reviews

Primary Actor: Admin

Description: Administrator makes changes to the reviews

Risk Level: High

Use Case 18: View Reviews

Primary Actor: User

Description: User views the reviews

Risk Level: Low

Use Case 19: View Social Media

Primary Actor: User

Description: User views the integrated social media posts

Risk Level: Low

Use Case 20: Social Media Connection

Primary Actor: Admin

Description: Administrator connects a social media post to the website

Risk Level: Low

Use Case 21: View Sponsors

Primary Actor: User

Description: User views the organizations that are sponsoring

Risk Level: Low

Use Case 22: Update Sponsors

Primary Actor: Admin

Description: Administrator updates the organizations that are sponsoring

Risk Level: Low

Use Case 23: View Mission Statement

Primary Actor: User

Description: User views the mission statement

Risk Level: Low

Use Case 24: Update Mission Statement

Primary Actor: Admin

Description: Admin makes changes to the mission statement

Risk Level: High

Use Case 25: View Application Page

Primary Actor: User

Description: User views the application page

Risk Level: Low

Use Case 26: Filling Out Application

Primary Actor: User

Description: Users fills out an application

Risk Level: Low

Use Case 27: Review Applications

Primary Actor: Admin

Description: Admin reviews the application and chooses to accept of decline the volunteer

Risk Level: High (Volunteers must be vetted)

Use Case 28: View Calendar

Primary Actor: User

Description: User views the future events on the calendar

Risk Level: Low

Use Case 29: Interacts With Calendar

Primary Actor: User

Description: User clicks events on the calendar which displays information related to the event

Risk Level: Low

Use Case 30: Clicks RSVP on Calendar

Primary Actor: User

Description: User clicks the option to RSVP on the calendar

Risk Level: High (RSVP would take a user's email or phone number as input, data security

concern)

Use Case 31: Makes Changes to Calendar

Primary Actor: Admin

Description: Admin makes changes to events on the calendar

Risk Level: High

Use Case 32: View Volunteer Hours

Primary Actor: User

Description: User views displayed volunteer hours

Risk Level: Low

Use Case 33: Update Volunteer Hours Display

Primary Actor: Admin

Description: Admin updates the amount of volunteer hours worked.

Risk Level: High

Use Case 34: Newsletter Signup Button

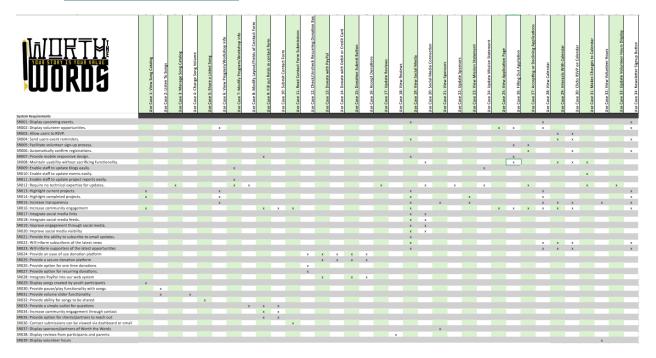
Primary Actor: User

Description: User inputs their email and signs up for the newsletter

Risk Level: High (Data security for email)

Trace Matrix

- Trace Matrix Excel Sheet

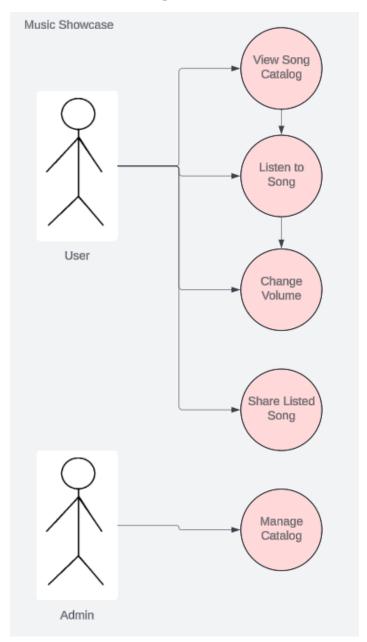


Trace Matrix Narrative

Our trace matrix serves the purpose of matching our use cases with the requirements that each one fulfills. We have system requirements on the left-hand side each with a unique identifier (SR0##) and use cases on the top that also have unique identifiers (Use Case #). Due to certain use cases fulfilling multiple requirements, we have use cases that fulfill similar requirements of others. Some examples include viewing social media, joining the newsletter, and interacting with the calendar use cases fulfilling the system requirement of increasing community engagement. Our system requirements and use cases were designed with the primary purpose of developing a system that is focused on improving end user experience, building engagement, and increasing monetary funding. If scope creep were to occur, system requirements and use cases are easily added, removed, or updated in the excel sheet that the trace matrix is stored in.

Use Case Diagrams

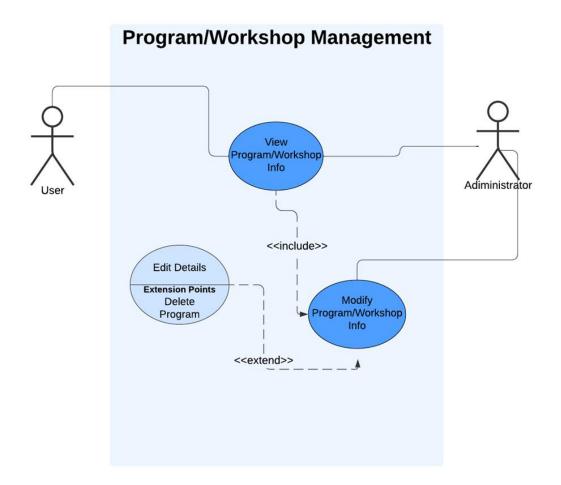
Use Case 1-5 Diagram Music Showcase



Use Case 1-5 Diagram Narrative

The user must scroll down the home page to view the song catalog. The user can then hit play to hear the first music option on the track. The user can also change the volume of the music that is playing with a volume slider. If the user likes the song, they can click the share button which will allow them to post it on their social media to share it with other people. An administrator's job is to update the song catalog by adding, replacing, or removing songs from the catalog.

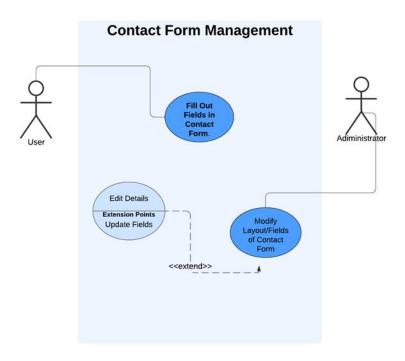
Use Case 6-7 Diagram Program/Workshop Info Management Group



Use Case 6-7 Diagram Narrative

The Program/Workshop Management system provides users with the ability to view information about various programs and workshops, enabling them to stay informed about available options. Administrators have enhanced access, allowing them not only to view but also to modify program and workshop details, ensuring that information remains accurate and up-to-date. Through an extension point labeled "Edit Details," administrators can make specific changes, such as updating or reordering content, while also having the option to delete programs when necessary. This setup distinguishes user and administrator roles, providing users with straightforward access to information while empowering administrators to manage and maintain program data efficiently.

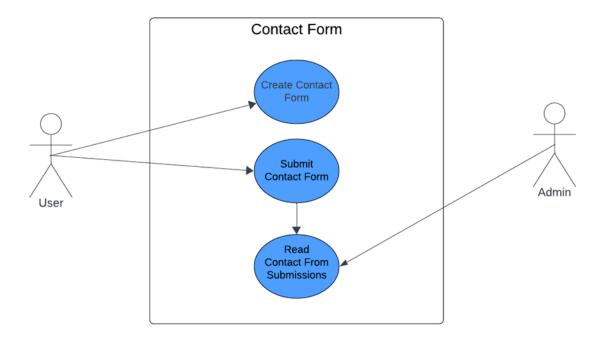
Use Case 8-9 Diagram Contact Form Group



Use Case 8-9 Diagram Narrative

The Contact Form Management system allows users to fill out fields in the contact form, enabling them to communicate with the organization. Administrators have additional access to modify the form's layout and fields, ensuring it aligns with organizational needs. Through an extension point labeled Update Fields, administrators can make detailed adjustments, like editing or reordering fields, keeping the form adaptable and relevant. This setup highlights the difference in user and administrator permissions, ensuring both accessibility for users and flexibility for administrators in managing contact form details.

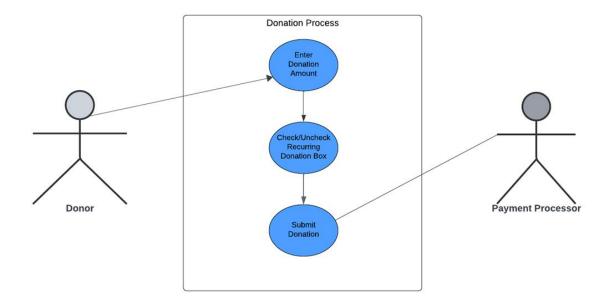
Use Case 10-11 Contact Form



Use Case 10-11 Contact Form Narrative

The contact form system allows users to create and submit forms, which administrators can review later. First, the user fills out the contact form by entering details like their name, email, and message. Then, they submit the form, which is checked for errors and saved in the database. Administrators can log in to the system to read and manage these submissions. The ability to read submissions depends on the forms being successfully submitted. Submitting forms is low risk, but reviewing them can be higher risk since it might involve sensitive information. This system helps users and administrators communicate efficiently.

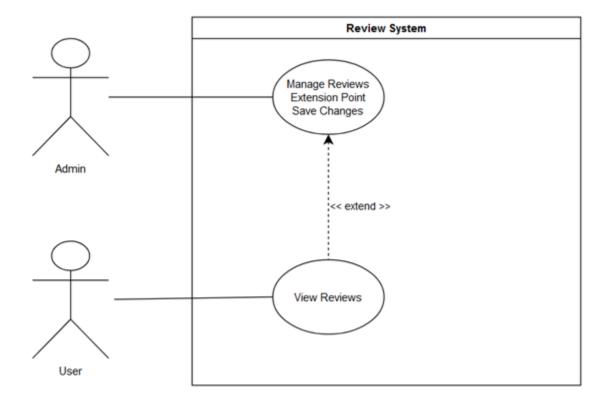
Use Case 12-16 Diagram Donation Process



Use Case 12-16 Diagram Narrative

This use case diagram shows how the donor interacts with the donation system. The donor can make a donation by selecting an amount, deciding whether the donation is one-time or recurring, and choosing a payment method (PayPal or credit card). The system then checks the details and processes the payment securely. The diagram illustrates the steps the donor goes through and how the system handles the donation process, ensuring everything works smoothly and securely. It helps explain the overall flow of the donation process without showing any behind-the-scenes management functions.

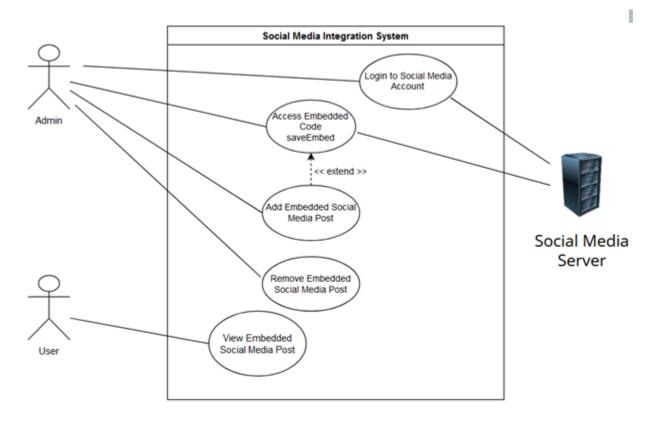
Use Case 17-18 Diagram Review System



Use Case 17-18 Diagram Narrative

The admin makes changes to the displayed reviews on the website from the Wix backend. The user viewing the updated reviews depends on the admin clicking the save button for the changes.

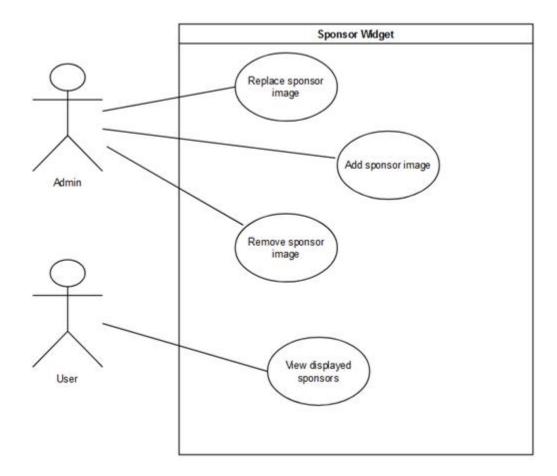
Use Case 19-20 Diagram Social Media Integration System



Use Case 19-20 Diagram Narrative

The admin logs into the Social media account which requires a connection to the social media server. The admin then selects the desired social media post, clicks the share button and accesses the embed code. The admin then uses this code in the Wix backend and pastes the code to add the desired social media post. Removing the social media post or having a user view an embedded post does not require the actor to connect the social media server.

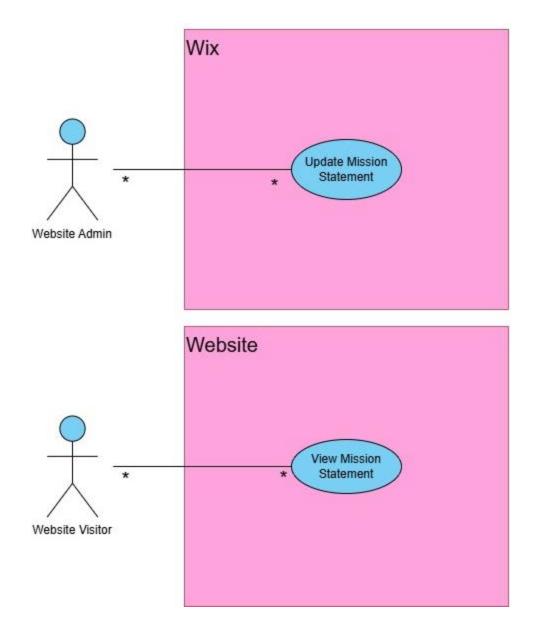
Use Case 21-22 Diagram Sponsors Showcase



Use Case 21-22 Diagram Narrative

The administrator can maintain the sponsor widget by either removing, adding, or replacing a sponsor's image in the widget. The one use case for a user is viewing the displayed sponsors that the administrator displayed.

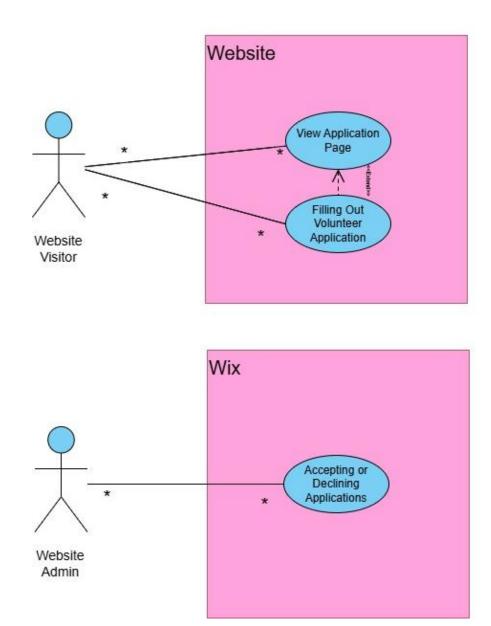
Use Case 23-24 Diagram Mission Statement



Use Case 23-24 Diagram Narrative

The visitor is able to navigate to the Mission Statement via the "About" tab. This mission statement is the result of whatever the website admin inserts on the CMS side, which in this case is Wix. The mission statement is reflective of what the website puts in Wix at any given time.

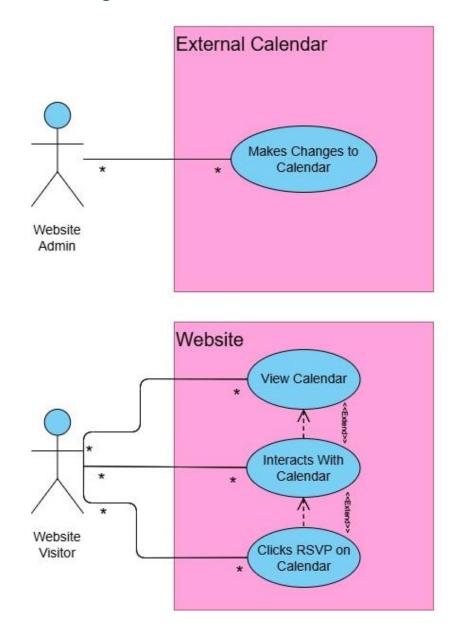
Use Case 25-27 Diagram



Use Case 25-27 Diagram Narrative

Visitors who express interest in volunteering for events can access the sign-up form via the "Get Involved" page. By clicking on the volunteer button, the visitor is taken to the application, which they will fill out with all the necessary information. When they have filled it out, they then hit submit, where the website admin will receive it. These responses will be viewable from the CMS, and the admin will be able to either discard the application or follow up with the applicant via a method of communication provided.

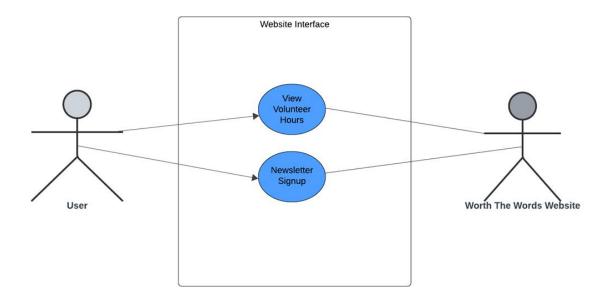
Use Case 28-31 Diagram



Use Case 28-31 Diagram Narrative

The visitor is able to view the calendar via the "Get Involved" page as well. All calendar updates are made within the website admin's calendar of choice. After changing, adding, or deleting an event, it will show up on the website. From there, visitors can interact with events by clicking on them to have information tabs pop out. Inside these tabs will be all the relevant information for the event, as well as an RSVP button. Clicking this button will allow visitors to submit information, and have their name added to a list of participants that is visible to the admin.

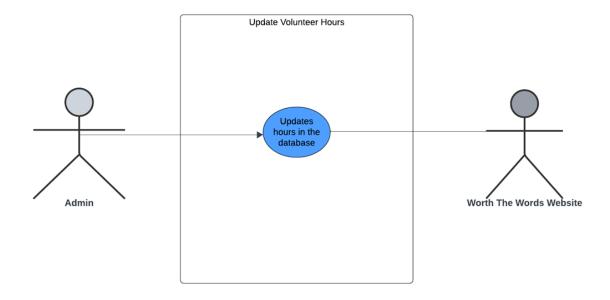
Use Case 32 & 34 Diagram Website Interface:



Use Case 32 & 34 Diagram Narrative

In this use case diagram, the User interacts with the Worth the Words Website to perform two main functions: View Volunteer Hours and Newsletter Signup Button. When viewing volunteer hours, the User initiates an action to access their recorded hours contributed to the organization. The website system retrieves this data from the database and displays it, allowing the User to view their contributions. For the newsletter signup, the User clicks on the signup button, inputs their email, and submits it to subscribe to the organization's newsletter. The website system validates the email format and, upon successful validation, stores it in the database for future communications.

Use Case 33 Diagram Update Volunteer Hours



Use Case 33 Diagram Narrative

In this use case, the Admin interacts with the Worth the Words Website to Update Volunteer Hours. This interaction allows the Admin to input, modify, or correct the recorded hours contributed by volunteers, ensuring accurate and up-to-date records.

Gantt Chart

Task ID	Task Name	Start Date	End Date	Duration (Days)	Task Responsibility	Dependencies
ID0300	I3 Document Compilation	11/6/2024	11/14/2024	8	All Members	No
ID0301	System Requirement Updates	11/6/2024	11/7/2024	1	Alexander Welsh	No
ID0302	Use Case Updates	11/6/2024	11/10/2024	4	Alexander Welsh, Jrew Simpson	No
	Trace Matrix	11/6/2024	11/11/2024	5	Dalton Karl	ID0301, ID0302
ID0304	Use Case Diagram	11/10/2024	11/14/2024	4	All Members	ID0302
	Updated Gantt Chart	11/10/2024	11/11/2024	1	Anthony Striepe	No
	Use Case HTML Prototype	11/6/2024	11/14/2024	8	All Members	No

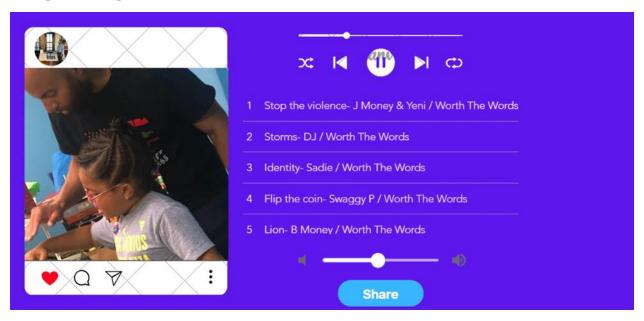


Use Case Work Breakdown

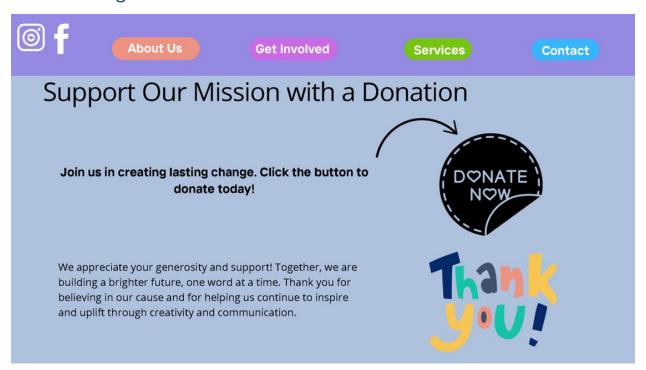
Our group broke down our use cases based on groupings for the diagrams we needed to create. The groupings we came up with were "Song Management and Media", "Programs, Workshops, and Contact", "Donations, Financials, and Extra Tasks", "Feedback, Reviews, and Sponsors", "Scheduling and Applications". This distribution allowed all of our members to more quickly and efficiently create diagrams that show a relationship between use cases rather than have multiple diagrams for cases in the same system. On paper some members had more use cases, but the workload was lessened because there were fewer individual diagrams. This allowed us to compose them into this iteration without having to add on to each other's diagrams.

Prototypes

Song Catalog



Donation Page



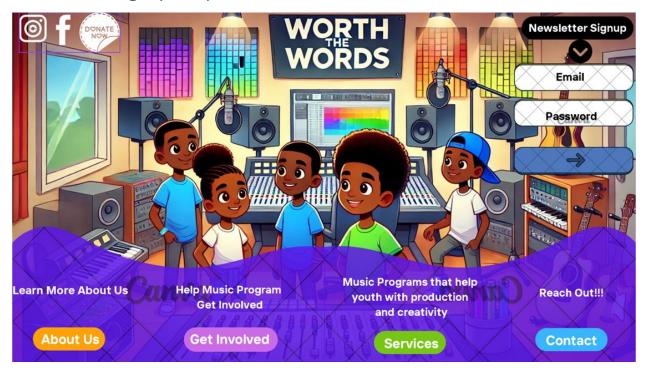
Donation System



Continue

Continue

Newsletter Signup Dropdown



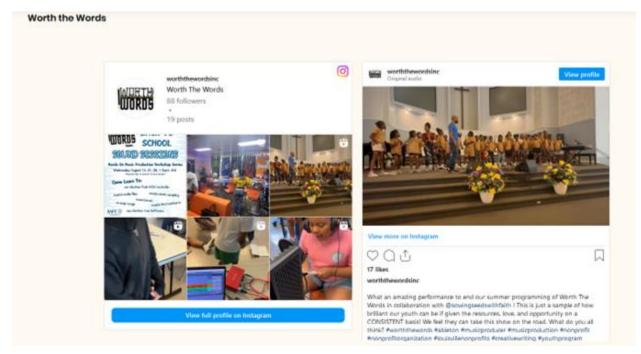
Hours Worked



Reviews Section



Social Media Integration



Sponsors Showcase









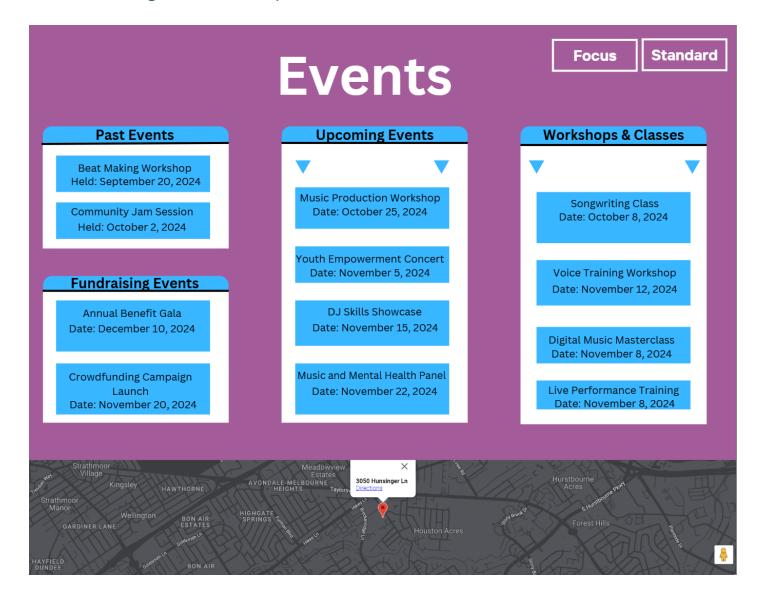






Metro United W

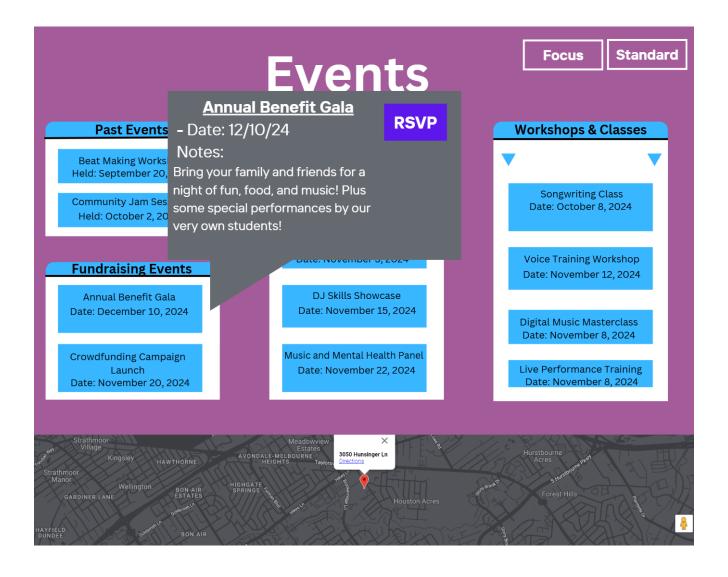
View Program/Workshop Information



Modify Program/Workshop Information/View Calendar

Select a Date and Time							Timezone: Eastern		Service Details	
<		May 2024		> Wednesday, May 1				May 1, 2024 at 8:30 am		
Sun	Mon	Tue	Wed			Sat	8:30 am	9:00 am	Creative Beats Workshop: Music	
5	6	7	8	2 .	10	11	9:30 am	10:00 am	Production Basics	
12	13	14	15	16	17	18	10:30 am	11:00 am	Next	
19	20	21	22	23	24	25	11:30 am	12:00 pm		
26	27	28	29	30	31		12:30 pm	1:00 pm		

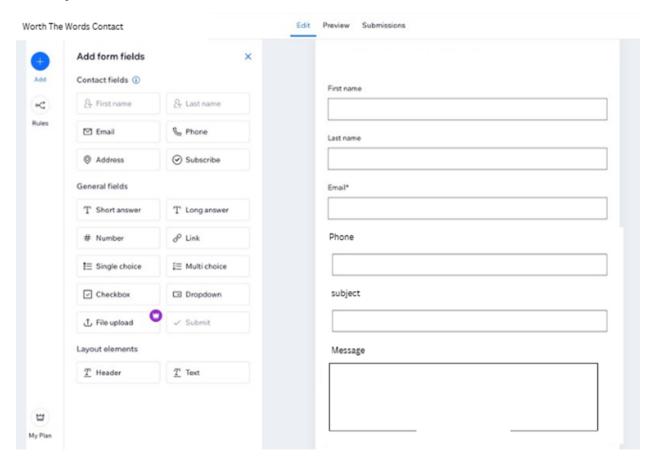
Interacts With Calendar



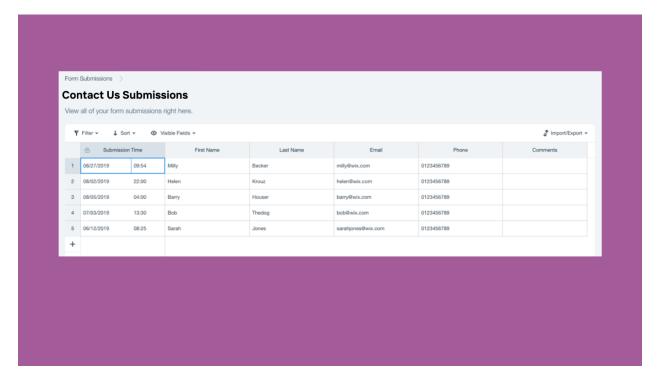
Fill Out Contacts



Modify Contact Form



View Contact Submissions



View Mission Statement



Filling out Volunteer Application

