Iteration 5

CIS 320-02
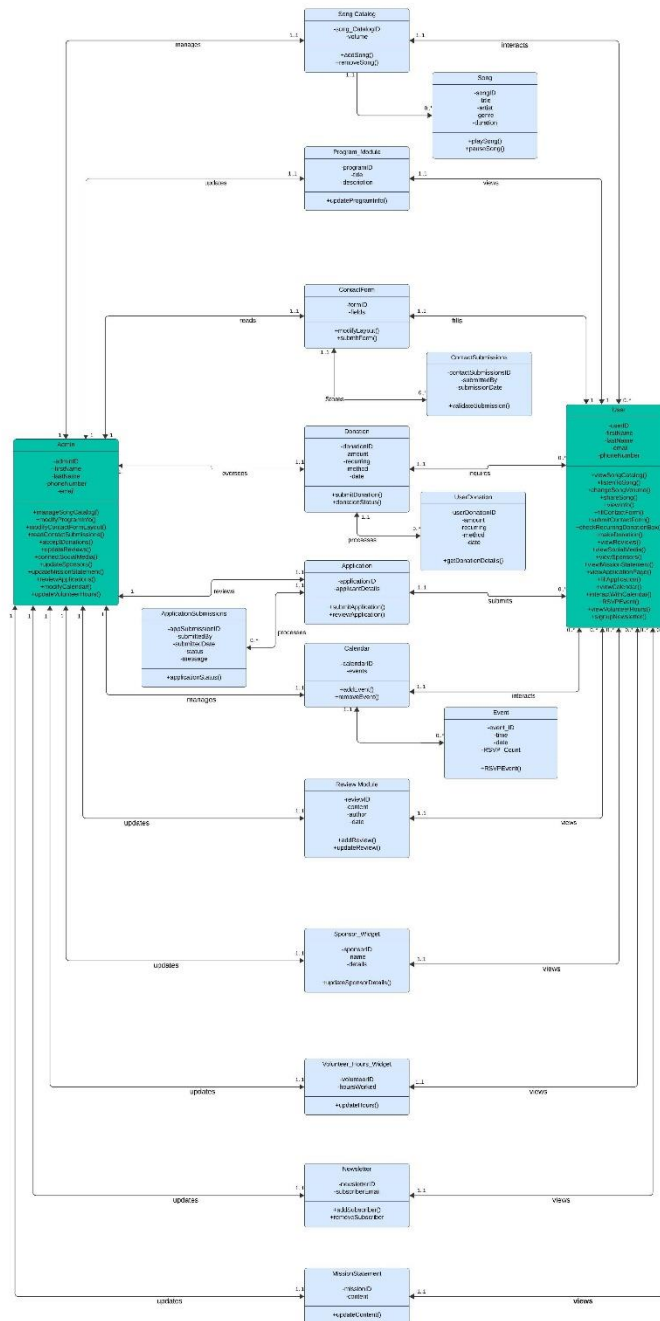
Team: BusinessFirst

Alexander Welsh, Dalton Karl, Anthony Striepe, Jrew Simpson, La'Daysha Wade

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This class diagram outlines a dynamic system designed to handle multiple aspects of organizational operations, including user interactions, donations, events, and administrative tasks. At the center of the design are two key roles: Admin and User. The Admin class is responsible for overseeing essential organizational functions such as managing song catalogs, programs, contracts, donations, applications, and event logistics. On the other hand, the User class represents everyday participants who interact with the system by making donations, RSVP'ing for events, and subscribing to newsletters. The system includes a Donation class, which supports both one-time and recurring contributions, with user-specific records maintained through the User_Donation class. Events are organized via the Event class, which tracks details like dates, RSVPs, and updates. Administrative efficiency is further enhanced by modular components such as the Sponsors_Widget and Volunteer_Hours_Widget, which simplify managing sponsorships and volunteer hours. Additionally, the Song_Catalog and Program_Module classes allow for the management of multimedia content and program-related details, connecting administrators and users for seamless updates. To support communication and engagement, features like the Newsletter, MissionStatement, and Reviews_Module keep users informed and involved. At the same time, dedicated classes handle specialized tasks such as processing applications and managing contracts. The system is designed with a strong emphasis on modularity, hierarchy, and interconnectedness, creating an effective framework for both user engagement and internal processes.

2. Database Design

2.1 Database Diagram
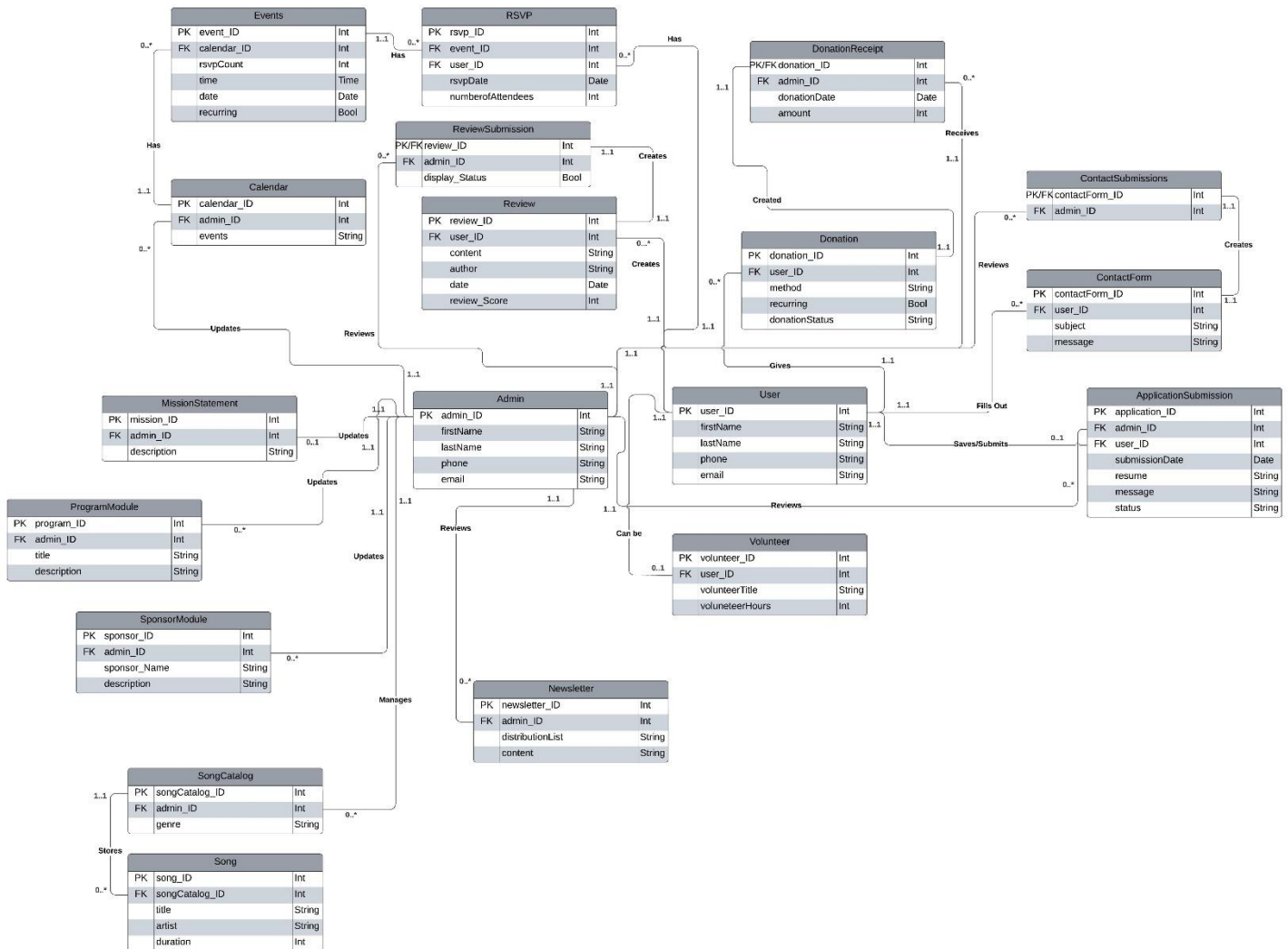
2.2 Database Narrative

Our database is designed around the actions of the system admin and website users. Many of our design choices for our website make it so that the data design is fairly simple. The admin has the most relationships and does not require many bridges to map out the system. The admin_ID attribute is listed with several classes as a way to mark the author of certain changes, such as who changed the mission statement, or who added a sponsor to the carousel. Normalizing the submissions of reviews and donations are what required the most work. In these instances, we were able to separate classes into two distinct ones: one for the admin to review, and the other for the user to create or submit. We accomplished this by having the two classes share the same primary key, with the attributes depending on a combination of the primary key and foreign key from the user or admin. Our diagram branches off into the several options that users are given to go via the ribbon on the landing page. We ensured that classes were covered by following our To-Be model.

2.3 Database Definitions

User

Attribute	Definition	Type	Size	Key
user_ID	User's unique identifier	int	5 bytes	Primary
firstName	User's first name	Str	256 bytes	N/A
lastName	User's last name	Str	256 bytes	N/A
email	User's email address	Str	256 bytes	N/A
phone	User's phone number	Str	256 bytes	N/A

Admin

Attribute	Definition	Type	Size	Key
admin_ID	Administrator's unique identifier	Int	5 bytes	Primary
firstName	Administrator's first name	Str	256 bytes	N/A
lastName	Administrator's last name	Str	256 bytes	N/A
email	Administrator's email address	Str	256 bytes	N/A
phone	Administrator's phone number	Str	256 bytes	N/A

Volunteer

Attribute	Definition	Type	Size	Key
volunteer_ID	Volunteer unique identifier	Int	5 bytes	Primary
user_ID	User ID	Int	5 bytes	Foreign
volunteerTitle	Title for volunteer hours	Str	256 bytes	N/A
volunteerHours	Number of volunteer hours	Int	5 bytes	N/A

Newsletter

Attribute	Definition	Type	Size	Key
newsletter_ID	Newsletter's unique identifier	Int	5 bytes	Primary
admin_ID	Administrator's unique identifier	Int	5 bytes	Foreign
distributionList	Distribution list of users	Str	5 bytes	N/A
content	Contents of the newsletter	Str	256 bytes	N/A

SongCatalog

Attribute	Definition	Type	Size	Key
songCatalog_ID	Song Catalog's unique identifier	int	5 bytes	Primary
admin_ID	Administrator's unique identifier	int	5 bytes	Foreign
genre	Song genres	str	256 bytes	N/A

Song

Attribute	Definition	Type	Size	Key
songID	Song's unique identifier	int	5 bytes	Primary
songCatalog_ID	Song Catalog's unique identifier	int	5 bytes	Foreign
title	Song's title	str	256 bytes	N/A
artist	Artist of song	str	256 bytes	N/A
duration	Length of song	int	5 bytes	N/A

SponsorModule

Attribute	Definition	Type	Size	Key
sponsor_ID	Sponsor Module's unique identifier	int	5 bytes	Primary
admin_ID	Administrator's unique identifier	int	5 bytes	Foreign
sponsor_Name	Name of Sponsor	str	256 bytes	N/A
description	Description of Song	str	256 bytes	N/A

ProgramModule

Attribute	Definition	Type	Size	Key
program_ID	Program Module's unique identifier	int	5 bytes	Primary
admin_ID	Administrator's unique identifier	int	5 bytes	Foreign
title	Title of Program	str	256 bytes	N/A
description	Description of program	str	256 bytes	N/A

MissionStatement

Attribute	Definition	Type	Size	Key
mission_ID	Mission's Statement's unique identifier	int	5 bytes	Primary
admin_ID	Administrator's unique identifier	int	5 bytes	Foreign
description	Description of Worth the Words's Mission	str	256 bytes	N/A

ApplicationSubmission

Attribute	Definition	Type	Size	Key
application_ID	Application's unique identifier	int	5 bytes	Primary
admin_ID	Administrator's unique identifier	int	5 bytes	Foreign
user_ID	User's unique identifier	int	5 bytes	Foreign
submissionDate	Applicant's submission date	date	256 bytes	N/A
resume	Applicant's Resume	str	256 bytes	N/A
message	Applicant's message	str	256 bytes	N/A
status	Status of application	str	256 bytes	N/A

ContactForm

Attribute	Definition	Type	Size	Key
contactForm_ID	Contact Form's unique identifier	int	5 bytes	Primary
userID	User's unique identifier	int	5 bytes	Foreign
subject	Subject of contact message	str	256 bytes	N/A
message	Contact form's message	str	256 bytes	N/A

ContactSubmissions

Attribute	Definition	Type	Size	Key
contactForm_ID	Contact Form's unique identifier	int	5 bytes	Primary/Foreign
admin_ID	User's unique identifier	int	5 bytes	Foreign

Donation

Attribute	Definition	Type	Size	Key
donation_ID	Donation's unique identifier	int	5 bytes	Primary
user_ID	User's unique identifier	int	5 bytes	N/A
method	Method of donation	str	256 bytes	N/A
recurring	Whether the donation recurs	bit	2 bytes	N/A
donationStatus	Status of being received	str	256 bytes	N/A

DonationReceipt

Attribute	Definition	Type	Size	Key
donation_ID	Donation's unique identifier	int	5 bytes	Primary/Foreign
admin_ID	Admin's unique identifier	int	5 bytes	N/A
donationDate	Date of donation	date	256 bytes	N/A
amount	Amount donated	int	5 bytes	N/A

Review

Attribute	Definition	Type	Size	Key
review_ID	Review's Unique identifier	int	5 bytes	Primary
user_ID	User's unique identifier	int	5 bytes	Foreign
content	Content of review	str	256 bytes	N/A
author	Author of review	str	256 bytes	N/A
date	Date of review	date	256 bytes	N/A
review_Score	Company rating	int	5 bytes	N/A

ReviewSubmission

Attribute	Definition	Type	Size	Key
review_ID	Review unique identifier	int	5 bytes	Primary/Foreign
admin_ID	Admin's unique identifier	int	5 bytes	Foreign
display_Status	Whether review is displayed or not	bit	2 bytes	N/A

Calendar

Attribute	Definition	Type	Size	Key
calendar_ID	Calendar's unique identifier	int	5 bytes	Primary
admin_ID	Admin's unique identifier	int	5 bytes	Foreign
events	Events on the calendar	str	256 bytes	N/A

Events

Attribute	Definition	Type	Size	Key
event_ID	Event unique identifier	int	5 bytes	Primary
calendar_ID	Calendar's unique identifier	int	5 bytes	Foreign
rsvp_count	Number of RSVPs	int	5 bytes	N/A
time	Time of event	time	5 bytes	N/A
date	Date of event	date	5 bytes	N/A
recurring	Recurring status of event	bit	2 bytes	N/A

RSVP

Attribute	Definition	Type	Size	Key
rsvp_ID	RSVP unique identifier	int	5 bytes	Primary
event_ID	Event's unique identifier	int	5 bytes	Foreign
user_ID	User's unique identifier	int	5 bytes	Foreign
rsvpDate	Date of RSVP	date	256 bytes	N/A
numberofAttendees	Number of people the RSVP is for	int	5 bytes	N/A

3. User Interface Diagram

3.1 User Interface Navigation Diagram
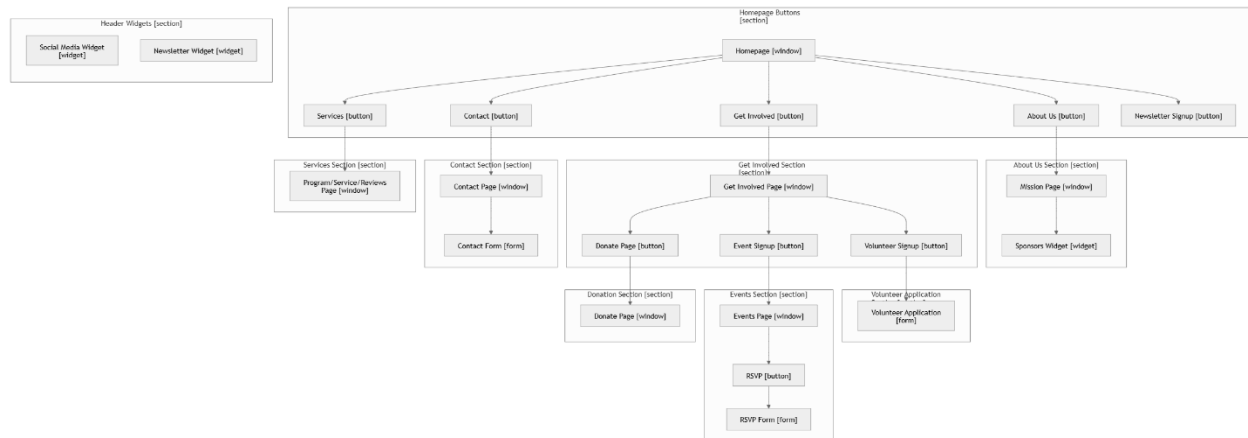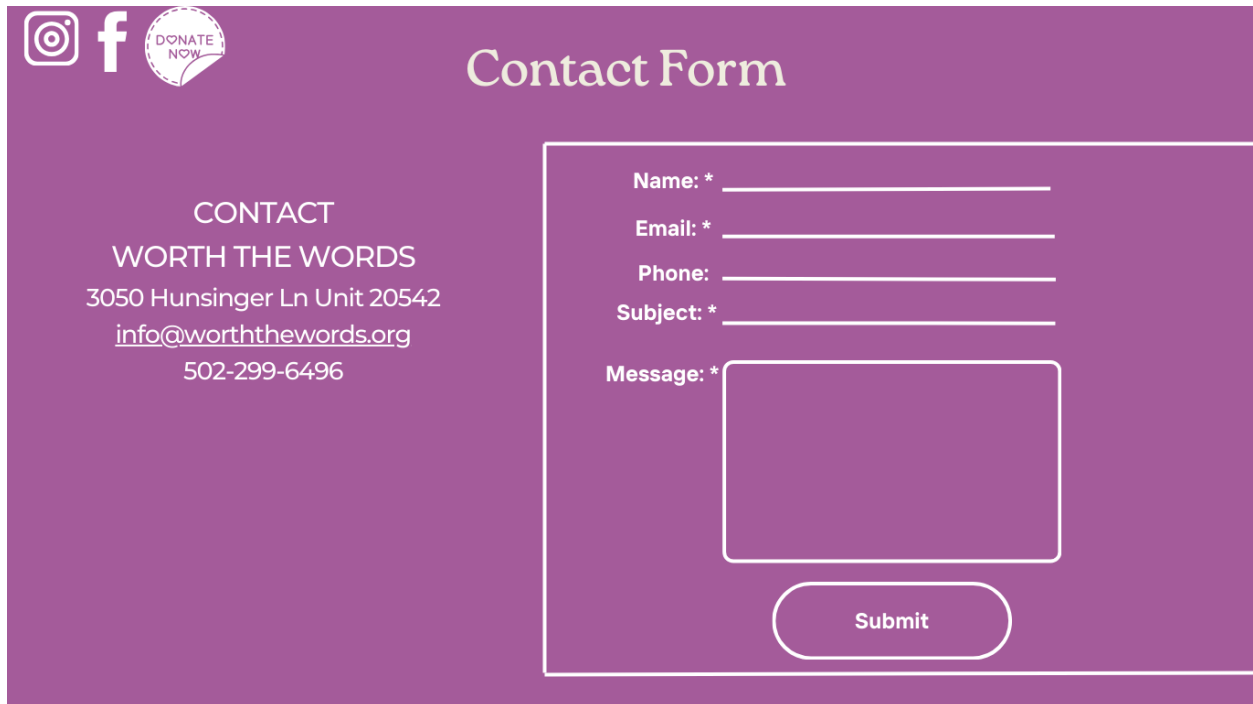
3.2 User Interface Diagram Narrative

The "Worth the Words" website is designed with a user-friendly interface, centered around the Homepage, which provides access to the site's core sections through five main buttons: About Us, Get Involved, Services, Contact, and Newsletter Signup. Each page features a consistent header containing a Social Media Widget for engaging with the organization's platforms and a Newsletter Widget for easy subscription access. The About Us section leads to the Mission Page, which highlights the organization's purpose and includes a Sponsors Widget to showcase its supporters. The Get Involved section offers users opportunities to engage further by signing up as a volunteer, completing the Volunteer Application, registering for events through the Event Signup button, or contributing via the Donate Page. The Events Page allows users to RSVP for upcoming events with a simple form, while the Contact Page includes a dedicated form for inquiries and feedback. The Services Page provides comprehensive information about the organization's programs, services, and user reviews. This streamlined design ensures intuitive navigation and encourages user engagement through its consistent structure and accessible features.

3.3 Screen Layouts

3.3A Data Input Screens

Contact Form

Contact Form

CONTACT
WORTH THE WORDS
3050 Hunsinger Ln Unit 20542
info@worththewords.org
502-299-6496

Name: * _____

Email: * _____

Phone: _____

Subject: * _____

Message: *

Submit

As shown in the prototype, all fields in the contact form will be empty by default. All of the fields will be required for a submission to process. With one exception, the end user may leave the phone number field blank if they'd like. After filling out the fields the submit button sends the information to the backend.

Newsletter Form

The newsletter form shows up on multiple different pages including the home page and the Stay Connected page. The end user has the option to input either their email or phone number, for the form to submit one of the fields has to be filled. After submission, the data is sent to a Wix dashboard containing all of the Newsletter submissions.

RSVP Form
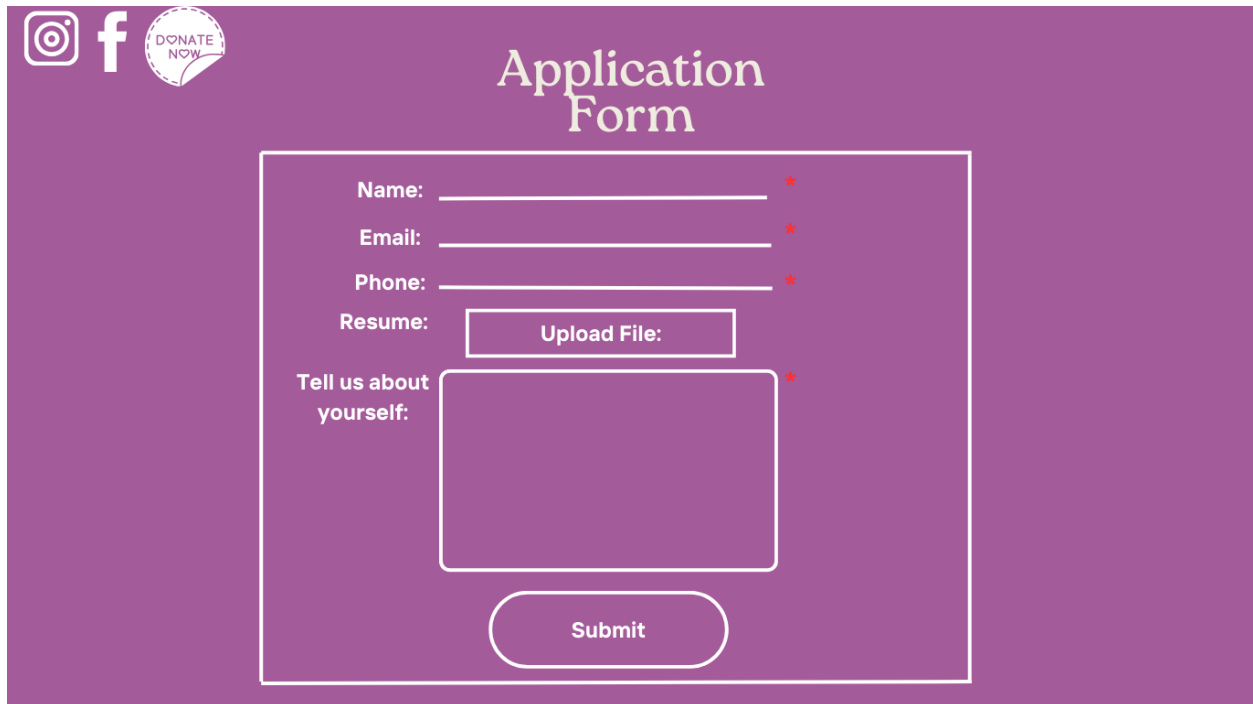
Using the RSVP form, the end user can select the event or service date, the time, view the details of the event/service, and can then click next to confirm their RSVP. After confirming the RSVP, the submission will be sent to a dashboard that contains the full list of guests. After confirming, the end user may also add the event to whichever calendar app of their choice.
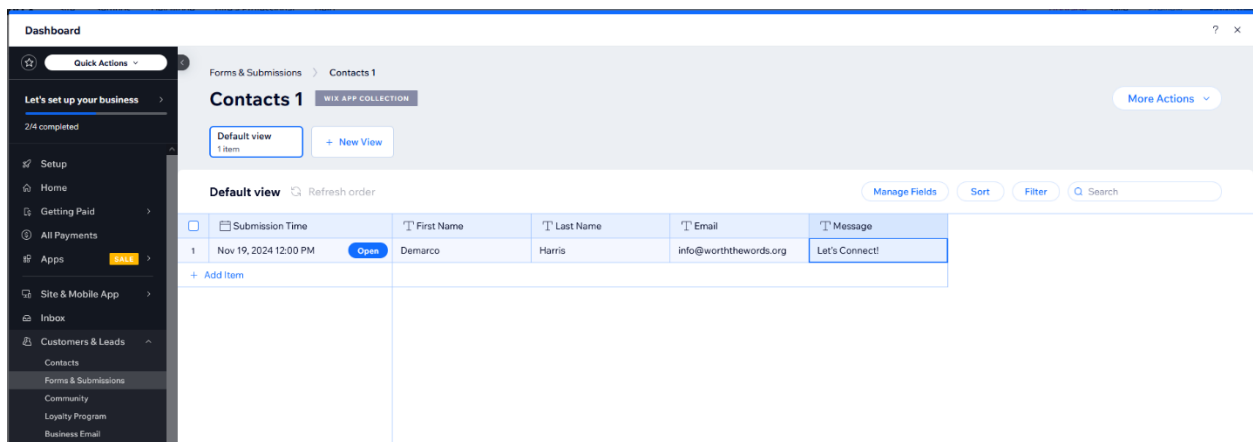
Application Form

The application form requires the end user to enter their name, email address, phone number, and a custom message about themselves. There's also a resume field that allows the user to attach a resume to their submission, but that is not a required field. After submission, the user's information is sent to the Wix backend and is stored in a dashboard containing all of the current application form submissions.

3.3B Data Output Screens

Contact/Application Submissions

After an end user submits a contact request, their submitted information is sent to the Wix

backend which hosts a dashboard that displays each contact submission. If needed, the administrator can create separate views that showcase different filters or sorted information. The dashboard can also be exported to a CSV if needed.

Newsletter Submissions

After an end user enters submits either their email address or phone number through the newsletter form, their information is sent to a dashboard in the Wix backend. Each submission's submission time, email address, and phone number can be viewed from the dashboard. Along with this, there's a spam filter and trash tab in case the administrator deletes an item and wants to recover it.

RSVP Submissions

After the end user submits the RSVP form, their registration is stored in the event dashboard in the guest tab. The registration contains the guests name, email, RSVP date, status, and check-in status. If the number of guests is limited, then the user would not have been able to submit the RSVP form. Each guest can check into the event and the

administrator will be notified of the amount of checked in guests through the dashboard. The administrator can also export the guest list or utilize email marketing for the guests.

Application Submissions

After an end user submits their volunteer application form, their information is sent to the Wix backend that displays a dashboard. The dashboard contains the application's submission time, the user's first name, last name, email, phone number, resume (if submitted), and a custom message from the user. Similar to the newsletter submissions, the dashboard has a spam and trash filter for application submissions.

4. Gantt Chart

4.1 Gantt Chart Diagram

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
ID0303	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
ID0305	Updated Gantt Chart	11/10/2024	11/11/2024	1	Anthony Striepe	No
ID0306	Use Case HTML Prototype	11/6/2024	11/14/2024	8	All Members	No
ID0500	I5 Document Compilation	11/16/2024	11/24/2024	8	All Members	No
ID0501	Class Diagram	11/20/2024	11/23/2024	3	Dalton Karl, Jrew Simpson	No
ID0502	Database Design	11/20/2024	11/23/2024	3	Anthony Striepe, Jrew Simpson	No
ID0503	Data Definitions	11/18/2024	11/24/2024	6	All Members	ID0502
ID0504	User Interface Nav & Layouts	11/18/2024	11/19/2024	1	Jrew Simpson, La'Daysha Wade	ID506
ID0505	Gantt Chart	11/21/2024	11/22/2024	1	Anthony Striepe	No
ID0506	User Interface Prototypes	11/16/2024	11/20/2024	4	Alexander Welsh	No

5. User Interface Prototypes

Song Catalog
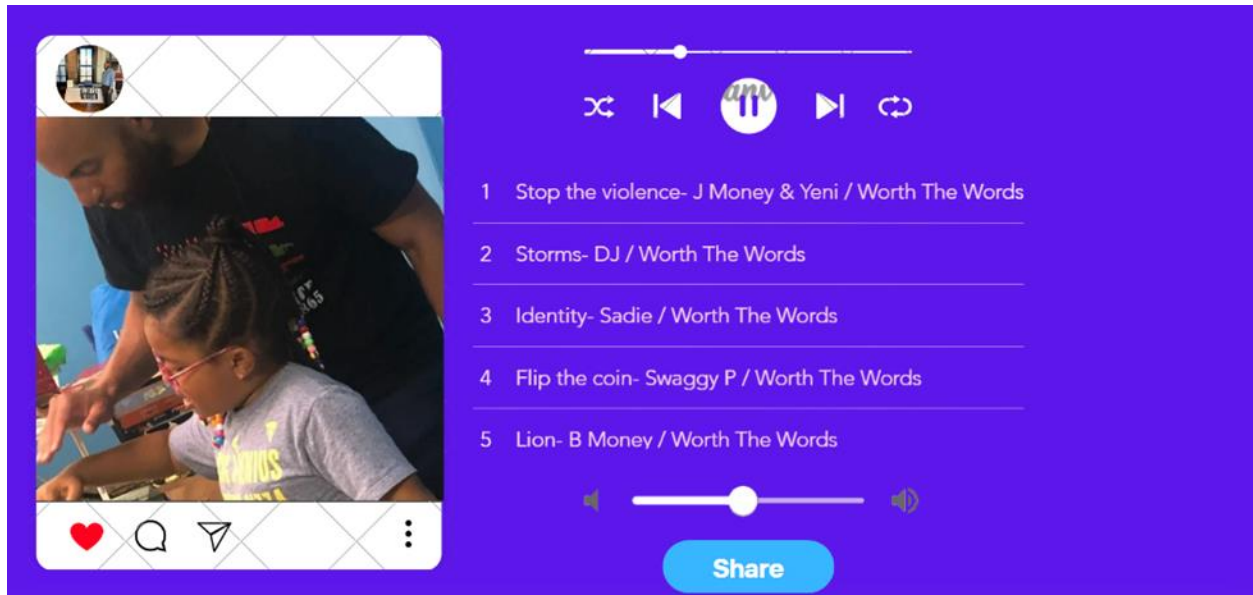
Donation Screen
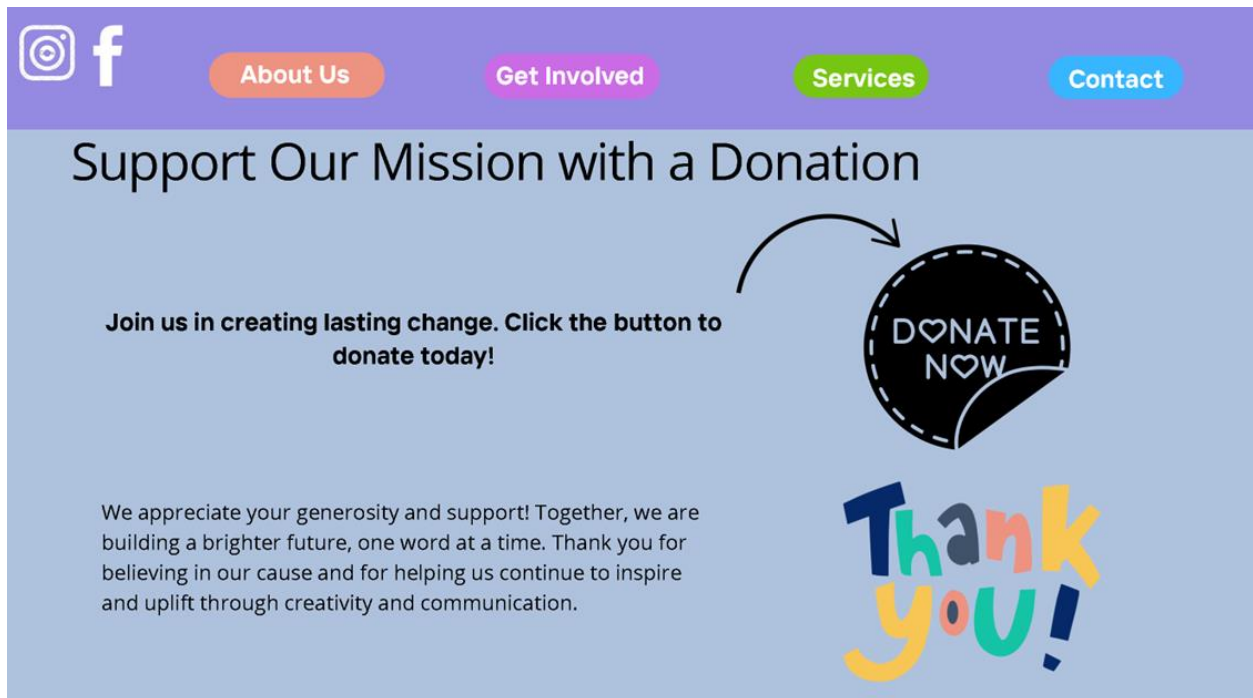
Donation System

One time	✓ Monthly

Choose a **monthly** amount

$100	$50
$25	$10
USD ▼ $ Other	

✓ One time	Monthly

Choose a **one-time** amount

$500	$100
$50	$25
USD ▼ $ Other	

Continue

Continue

Newsletter Signup Dropdown
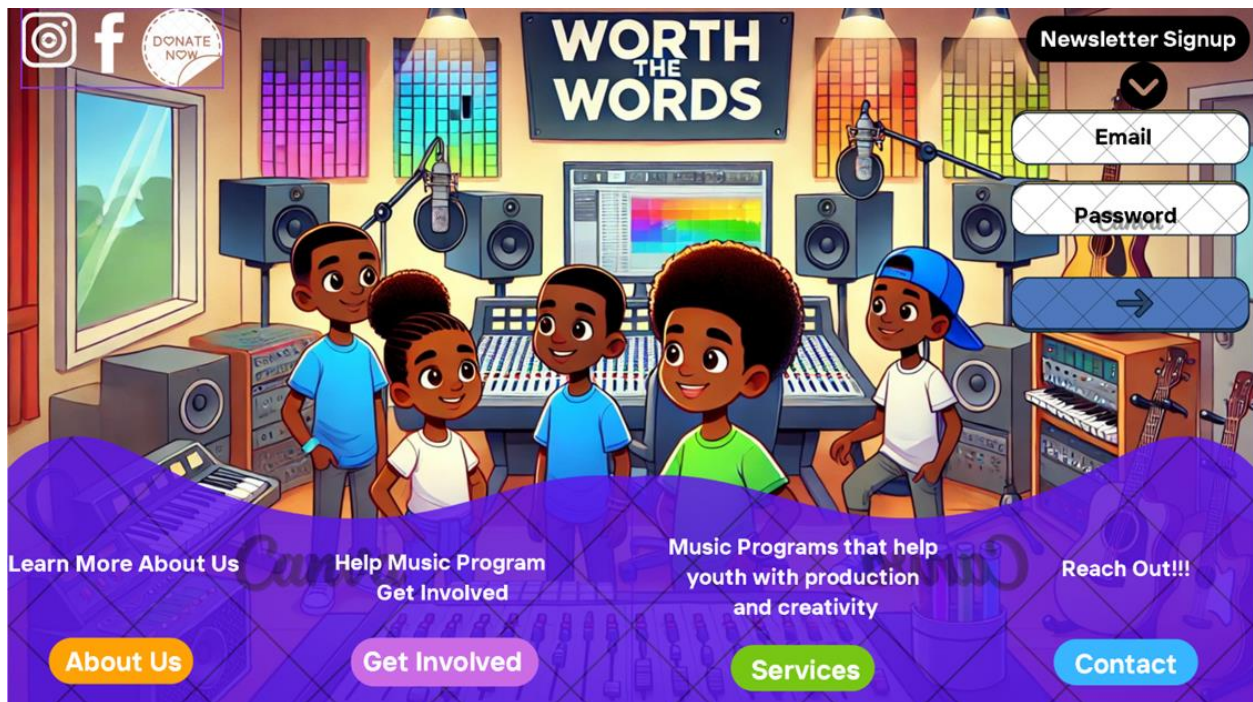
Reviews Section

Social Media Integration
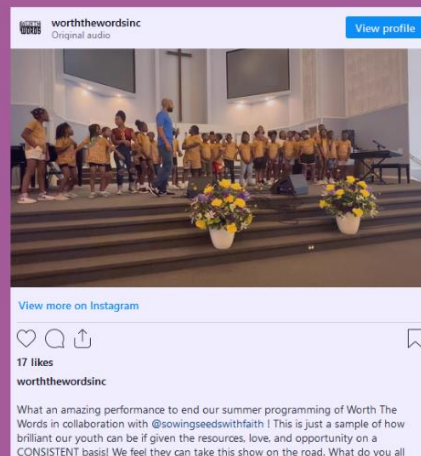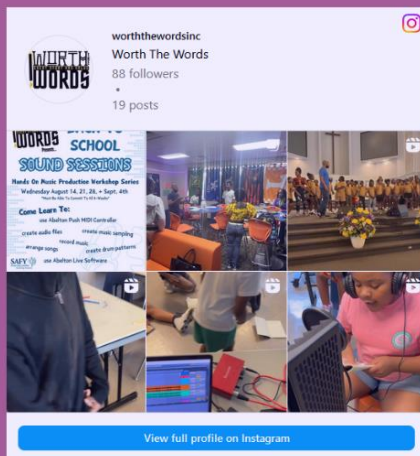
View Program/Workshop Information

Events

Focus | Standard

Past Events

Beat Making Workshop
Held: September 20, 2024

Community Jam Session
Held: October 2, 2024

Fundraising Events

Annual Benefit Gala
Date: December 10, 2024

Crowdfunding Campaign
Launch
Date: November 20, 2024

Upcoming Events

Music Production Workshop
Date: October 25, 2024

Youth Empowerment Concert
Date: November 5, 2024

DJ Skills Showcase
Date: November 15, 2024

Music and Mental Health Panel
Date: November 22, 2024

Workshops & Classes

Songwriting Class
Date: October 8, 2024

Voice Training Workshop
Date: November 12, 2024

Digital Music Masterclass
Date: November 8, 2024

Live Performance Training
Date: November 8, 2024

3050 Hunsinger Ln
Directions

Interacts With Calendar

Events

Past Events

Beat Making Works
Held: September 20,

Community Jam Ses
Held: October 2, 20

Fundraising Events

Annual Benefit Gala
Date: December 10, 2024

Crowdfunding Campaign
Launch
Date: November 20, 2024

Annual Benefit Gala
- Date: 12/10/24
Notes:
Bring your family and friends for a
night of fun, food, and music! Plus
some special performances by our
very own students!

RSVP

Date: November 3, 2024

DJ Skills Showcase
Date: November 15, 2024

Music and Mental Health Panel
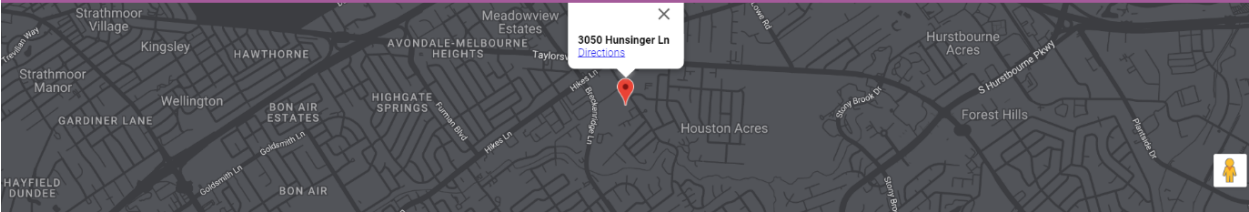Date: November 22, 2024

Workshops & Classes

Songwriting Class
Date: October 8, 2024

Voice Training Workshop
Date: November 12, 2024

Digital Music Masterclass
Date: November 8, 2024

Live Performance Training
Date: November 8, 2024

3050 Hunsinger Ln
Directions

Fill Out Contacts

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Contact Form

CONTACT
WORTH THE WORDS
3050 Hunsinger Ln Unit 20542
info@worththewords.org
502-299-6496

Name: _____
Email: _____
Phone: _____
Subject: _____

Message:

Submit

View Mission Statement

OUR MISSON

"We believe every youth should have access to enrichment opportunities. Our programs provide hope, teach transferrable skills, and provides our students healthy outlets to process social and emotional trauma."