

Elaboration Phase

CIS 320-01

Team: Exel Members

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## **1. System Requirements**

For the "Worth the Words" system to achieve the goals outlined in the vision document, it must meet several essential requirements designed to ensure a secure, user-friendly, and engaging experience for donors, administrators, and visitors. The system requirements are categorized into functional and non-functional components. Functional requirements specify the core capabilities needed to support users' needs, such as setting up recurring donations, processing payments securely, and enabling administrators to manage donation subscriptions. Non-functional requirements address system performance, security standards, and usability expectations, ensuring reliability, data integrity, and a positive user experience. These requirements are organized in a structured hierarchy, built upon high-level goals, to guide the successful development and implementation of the system.

### **1.1 Functional Requirements**

#### **1.1A Donation Requirements**

ID: SR001 - The Donation Module will allow recurring monthly donations to be set up.

ID: SR002 - The Donation Module will securely store and process payment information.

ID: SR003 - The Donation Module will allow administrators to manage donation subscriptions.

ID: SR004 - The Donation Module will allow notifications for payment confirmations to be sent.

ID: SR005 - The Donation Module will allow donors to manage their donation history.

#### **1.1B Event Calendar Requirements**

ID: SR006 - The Event Calendar Module will display upcoming events to users.

ID: SR007 - The Event Calendar Module will allow users to view event details by clicking on an event.

ID: SR008 - The Event Calendar Module will allow administrators to create new event entries.

ID: SR009 - The Event Calendar Module will allow administrators to modify existing event details.

ID: SR010 - The Event Calendar Module will allow users to search for events by date or category.

## **1.1C Questionnaire Requirements**

ID: SR011 - The Questionnaire Module will allow administrators to customize questions to get information or input they desire.

ID: SR012 - The Questionnaire Module will allow administrators to modify the design of the form to fit the format they desire.

ID: SR013 - The Questionnaire Module will allow administrators to configure questions to be short answer, paragraph, multiple choice, checkboxes, and dropdown question types.

ID: SR014 - The Questionnaire Module will allow administrators to add, remove, or reorder questions as needed.

ID: SR015 - The Questionnaire Module will allow administrators to set mandatory questions that users must answer before submitting the form.

ID: SR016 - The Questionnaire Module will allow users to save the form and return to complete it later by having an autosave feature.

ID: SR017 - The Questionnaire Module will allow administrators to preview the form before publishing it.

ID: SR018 - The Questionnaire Module will allow administrators to view the answers the users submitted.

ID: SR019 - The Questionnaire Module will allow data security and privacy by encrypting user responses.

ID: SR020 - The Questionnaire Module will allow real-time data validation of user input to ensure the data is in the correct format (email addresses and phone numbers).

## **1.1D Volunteer Form Requirements**

ID: SR021 - The Volunteer Form will allow for interested users to view potential volunteer opportunities.

ID: SR022 - The Volunteer Form will allow for users to submit their credentials for specific jobs.

ID: SR023 - The Volunteer Form will allow for user information to be automatically stored.

### **1.1E Contact Form Requirements**

ID: SR024 - The Contact Form will allow for users to submit questions.

ID: SR025 - The Contact Form will allow for users to get specific information.

ID: SR026 - The Contact form will allow you to put in your email to be emailed about events and a newsletter.

### **1.1F Donation Banner Requirements**

ID: SR027 - The donation banner will have a redirect to our payment system

ID: SR028 - The donation banner will have a check box for a getting a newsletter

### **1.1G Header Requirements**

ID: SR029 - The header will need buttons to redirect you to each of the different areas of the site

ID: SR030 - The header will have a link for instagram and facebook

ID: SR031 - The header will have a clickable title to take you back to the home page

### **1.1H Socials Requirements**

ID: SR032 - The Socials will have a widget for a live social feed of instagram

### **1.1I Security Requirements**

ID: SR033 - The site will have usage of Https so that the website will be secure

ID: SR034 - The website will use a security plug-in to secure personal information

ID: SR035 - Personal information will be encrypted, and not stored in plain text

### **1.1J Analytics Requirements**

ID: SR036 - The addition of analytics through a plug-in will allow for data analysis of the site

ID: SR037 - Sales analytics in square will allow for sales analytics

ID: SR038 - The analytics will allow only administrators access

ID: SR039 - The administrators will have different formats to view analytics, and how to compare the data

ID: SR040 - The Questionnaire form will auto export to google sheet to allow for manipulation, and data viewing

ID: SR041 - The analytics will have a counter that can be set by the owner for how many people have been helped.

### **1.1K General Text / Image Page Requirements**

ID: SR042 - The guidelines for the page will let a variety of users access it depending on their screen size

ID: SR043 - The guidelines for the page will have the header and footer will be the same across pages

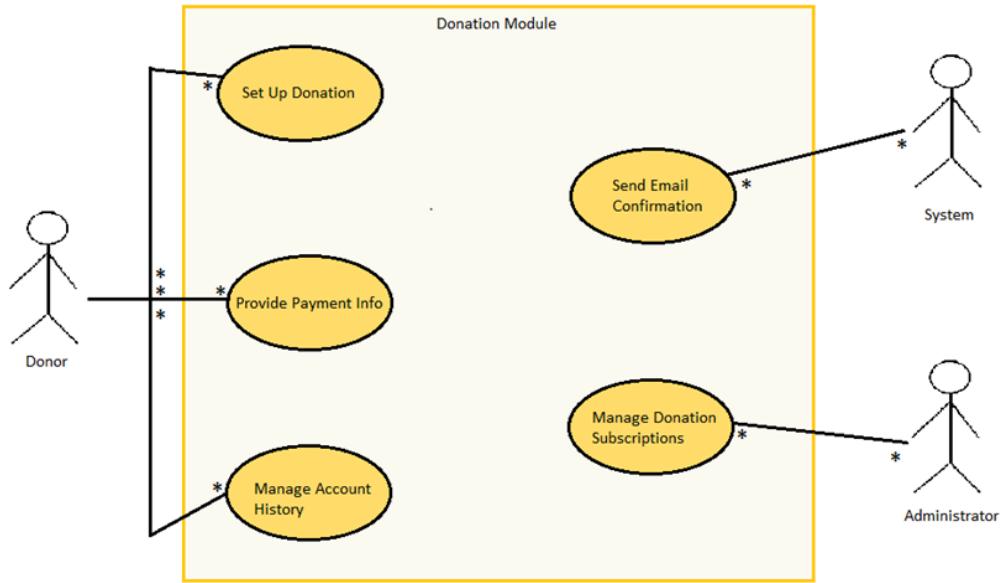
## **1.2 Non-Functional Requirements**

ID: SR044 - A guide for how to use the analytics and what the data may mean

ID: SR045 - A guide for how to modify text and images

ID: SR046 - A guide on troubleshooting

## 2. Use Case Diagrams and Narratives



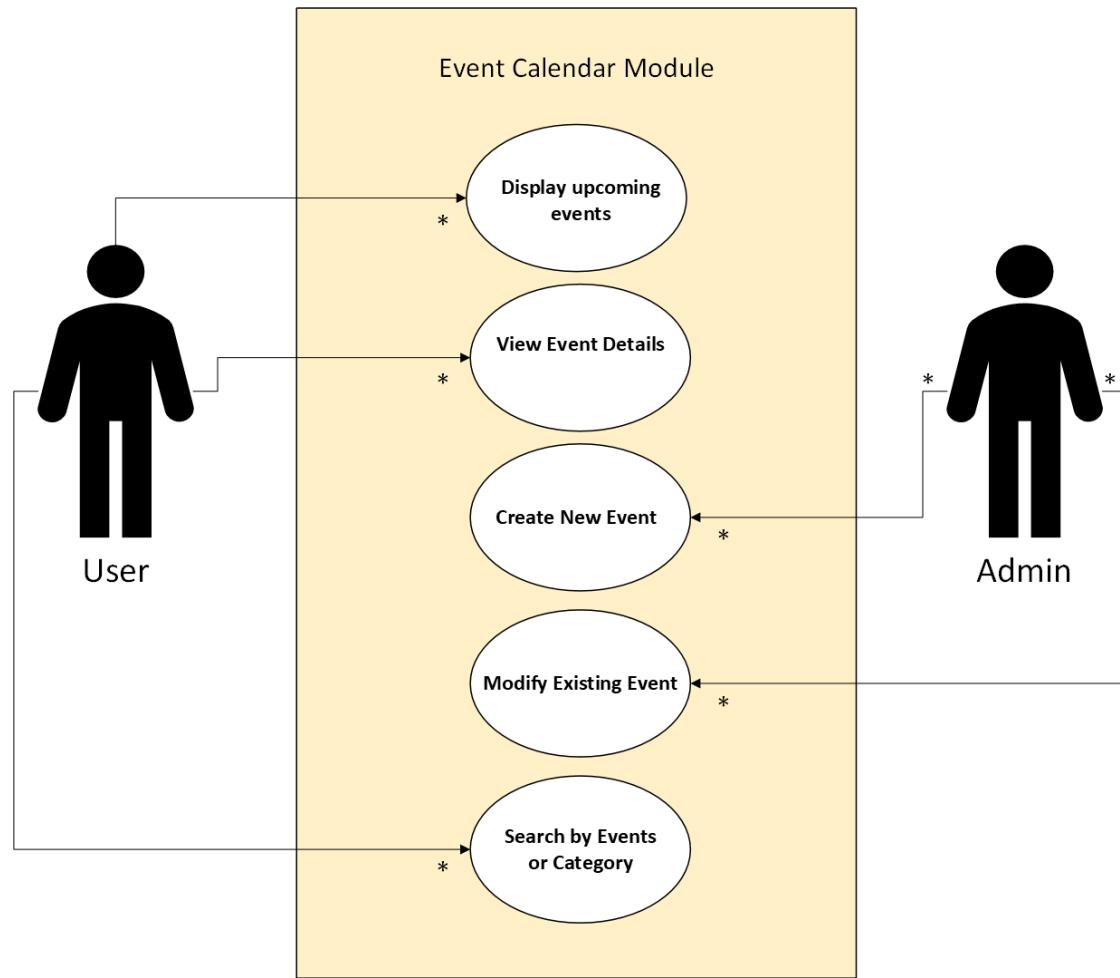
### Use Cases 1-5: Donation Module

#### Use case Diagram

#### Use Case Diagram Narrative

This use case diagram illustrates the various interactions between donors, administrators, and the system within the Donation Module. The Donor is responsible for several key actions such as setting up donations, providing payment information, and viewing or editing their account history. The System automatically sends email confirmations after successful donations, while the Administrator has the ability to manage donation subscriptions, including adjusting or canceling them.

## Use Cases 6-10: Event Calendar Module

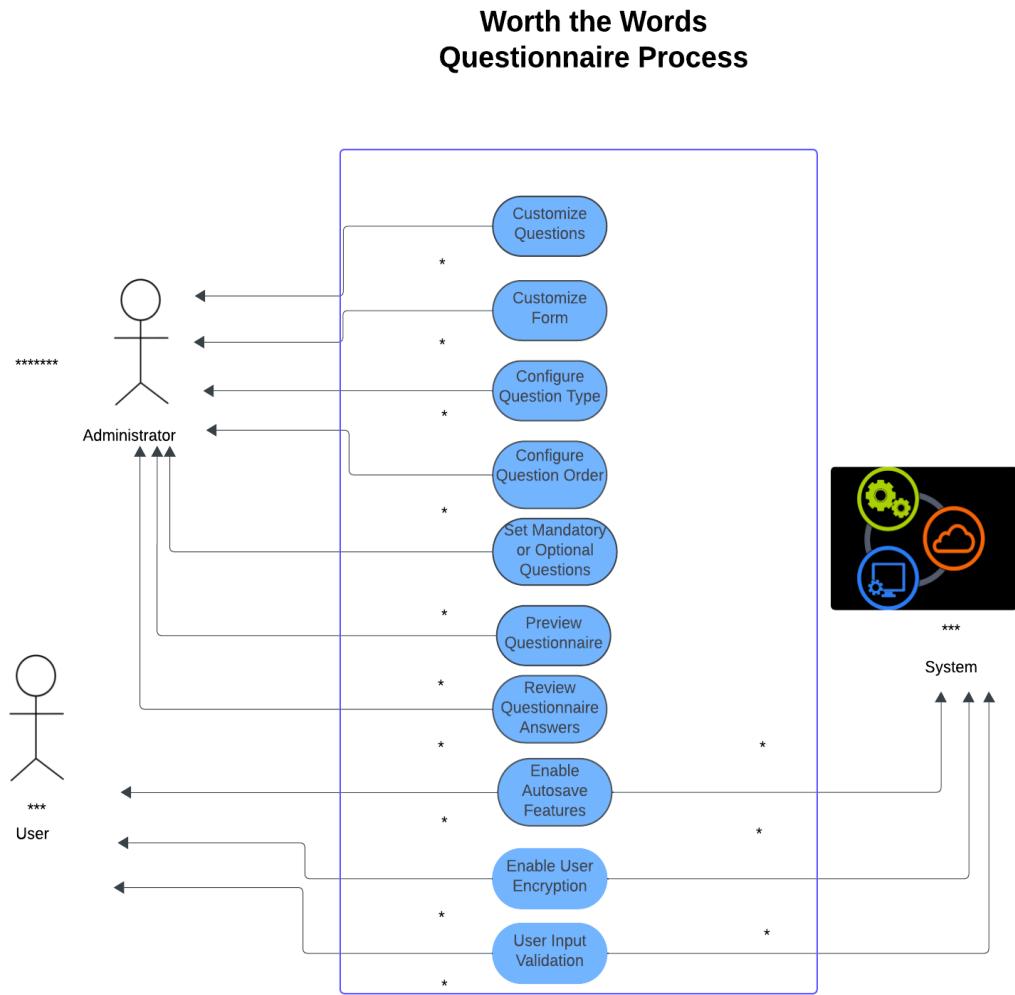


## Use Case Diagram Narrative

The Event Calendar Module use case diagram illustrates how both users and administrators interact with the system to manage and access event information. Users utilize the system to perform three main functions. They can display a list of upcoming events, view detailed information about specific events, and search for events based on specific criteria such as date or category. Administrators, on the other hand, manage the creation and maintenance of events within the system. They can create new event entries by providing necessary details and modify existing events to ensure information remains accurate and up-to-date.

## Use Cases 11-20: Questionnaire Module

### Use Case Diagram



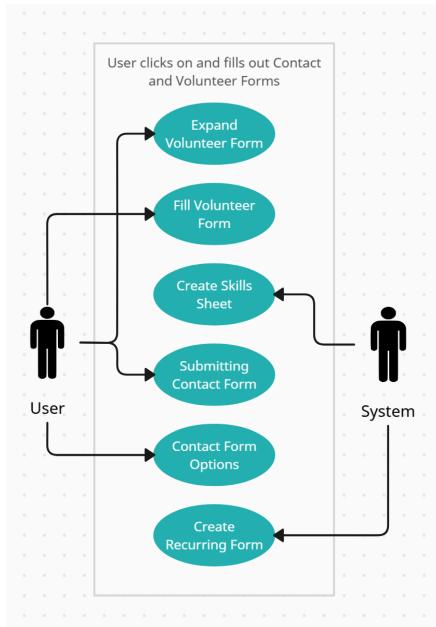
### Use Case Diagram Narrative

In this Use Case Diagram, it details the entire process of the questionnaire process for Worth the Words. The administrator who creates and maintains the questionnaire form can customize questions to get the data they are seeking from users; the administrator can configure the questions to be short answer, paragraph, multiple choice, or checkboxes; the administrator can make the questions mandatory or optional; the user can start the questionnaire and return later to complete because the system has an autosave feature; the administrator can preview the

questionnaire before publishing to ensure it meets their preferences; the administrator can review the answers the user submitted; the system encrypts the user input submitted; the system validates user input.

## Use Cases 21-26: Interaction with Forms

### Use Case Diagram

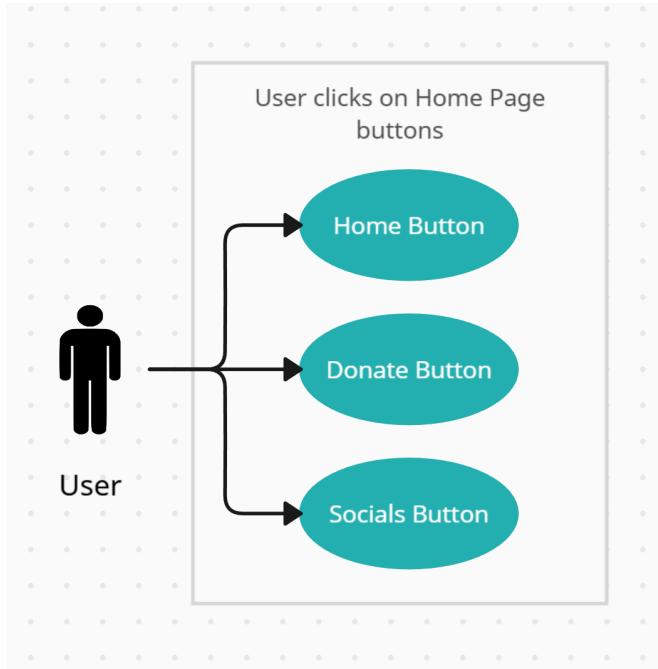


### Use Case Diagram Narrative

For this diagram, the user clicks on either the Volunteer or Contact Forms, giving them multiple options. They can expand the volunteer form and fill out one or a few of the options for volunteering, or they could fill out the form for their skills or things they would like to help with. With the contact form, the user could fill out the form if they need a question answered. They could also submit the form for other reasons. The System uses the Contact and Volunteer forms to get data on volunteers skills in creating a skills sheet, or can get user information when they opt-in to the recurring form.

## Use Cases 27-30: Website Headers

### Use Case Diagram

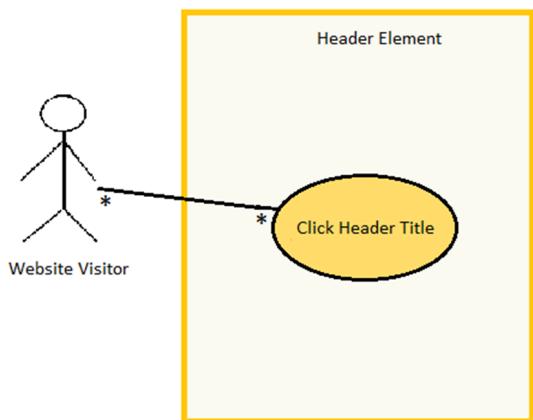


### Use Case Diagram Narrative

The website user can click on any of these buttons to be redirected to different parts of the site.

## Use Cases 31: Header Element

### Use Case Diagram

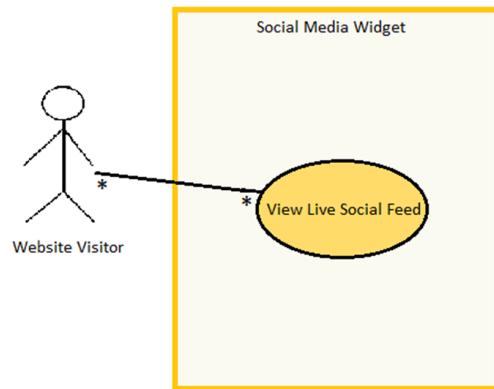


### **Use Case Diagram Narrative**

The use case diagram illustrates the interaction between a Website Visitor and the Header Element of the website. Here, the Website Visitor engages with the header by clicking on the header title, which will redirect them back to the homepage.

### **Use Cases 32: Social Media Widget**

#### **Use Case Diagram**

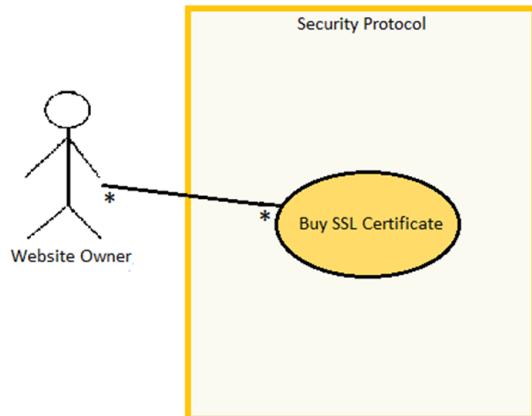


### **Use Case Diagram Narrative**

This use case diagram represents the interaction between a Website Visitor and the Social Media Widget on the website. The Website Visitor can interact with the widget by viewing the Live Social Feed feature, which allows them to access a real-time display of the website's social media content, such as Instagram posts.

### **Use Cases 33: Security Protocol**

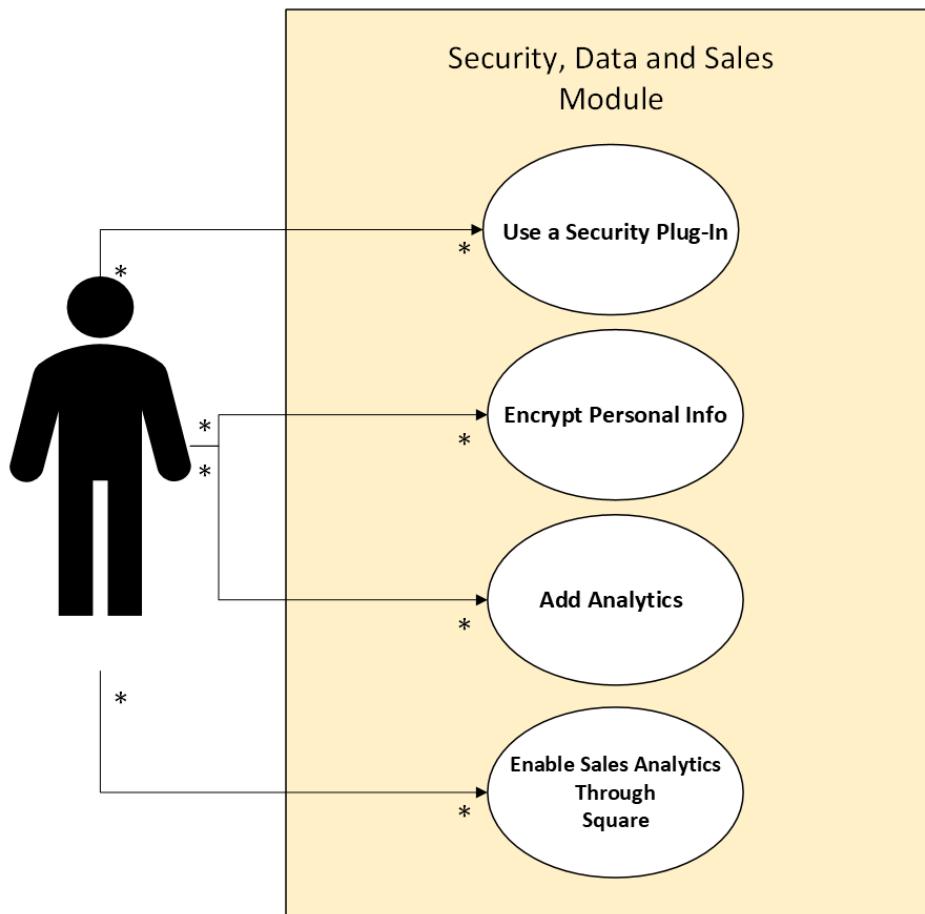
#### **Use Case Diagram**



## Use Case Diagram Narrative

This use case diagram illustrates the interaction between the Website Owner and the Security Protocol element of the system. The Buy SSL Certificate use case involves the website owner purchasing an SSL certificate to enable HTTPS and secure data transmitted through the website.

## Use Cases 34 - 37: Sales, Security and Analytics Module

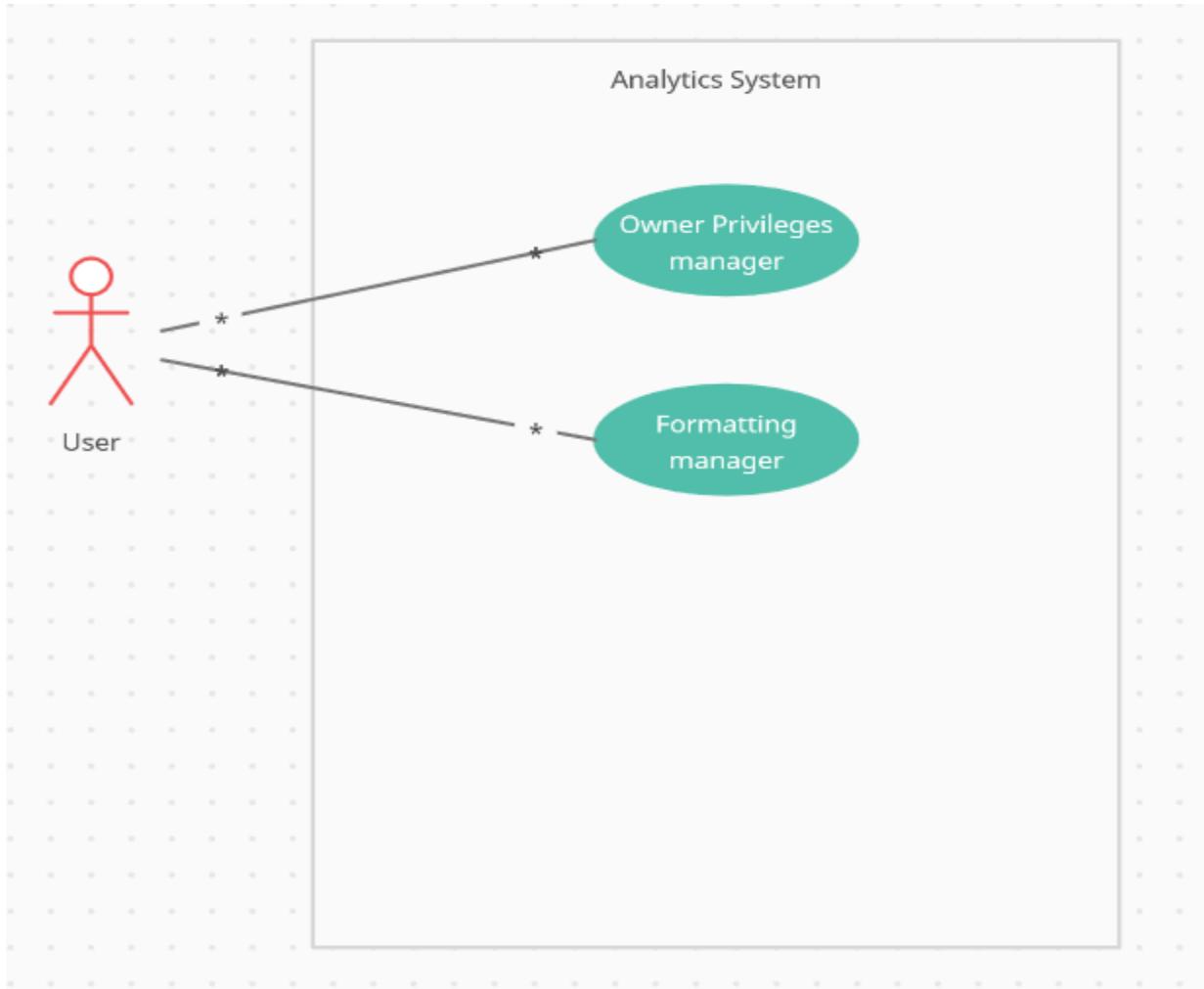


## Security, Analytics, and Sales Module Use Case Diagram Narrative

The Security, Analytics, and Sales Module use case diagram focuses on the administrator's role in managing the system's critical features related to data security, analytics, and sales tracking. The administrator configures and activates a security plug-in to protect user data and ensures all personal information is encrypted before storage, preventing unauthorized access.

Additionally, the administrator enables analytics to track and analyze user interactions and site performance. The system also integrates Square for sales tracking, allowing the administrator to monitor sales data and generate actionable insights.

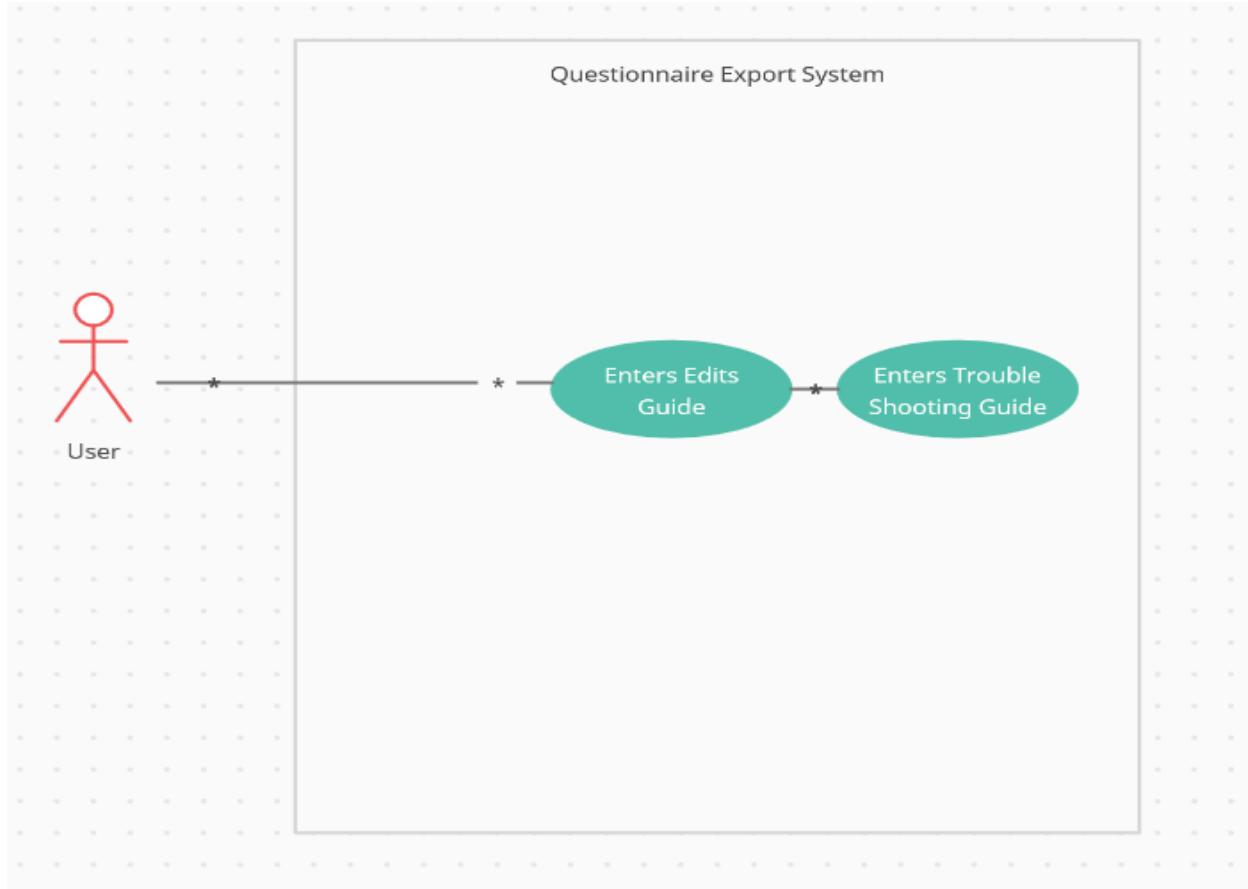
## Use Cases 38 - 39: Analytics Module



### Analytics Diagram Narrative

The analytics module is about the user and how they want to adjust their privileges or formatting of their analytics. The owner privileges seek to stop unauthorized users from entering the analytics module and viewing sensitive data about the site. The formatting manager seeks to show the data in different formats and different ways, so that the data that is shown makes more sense and can be more easily digested by people who are new to the data.

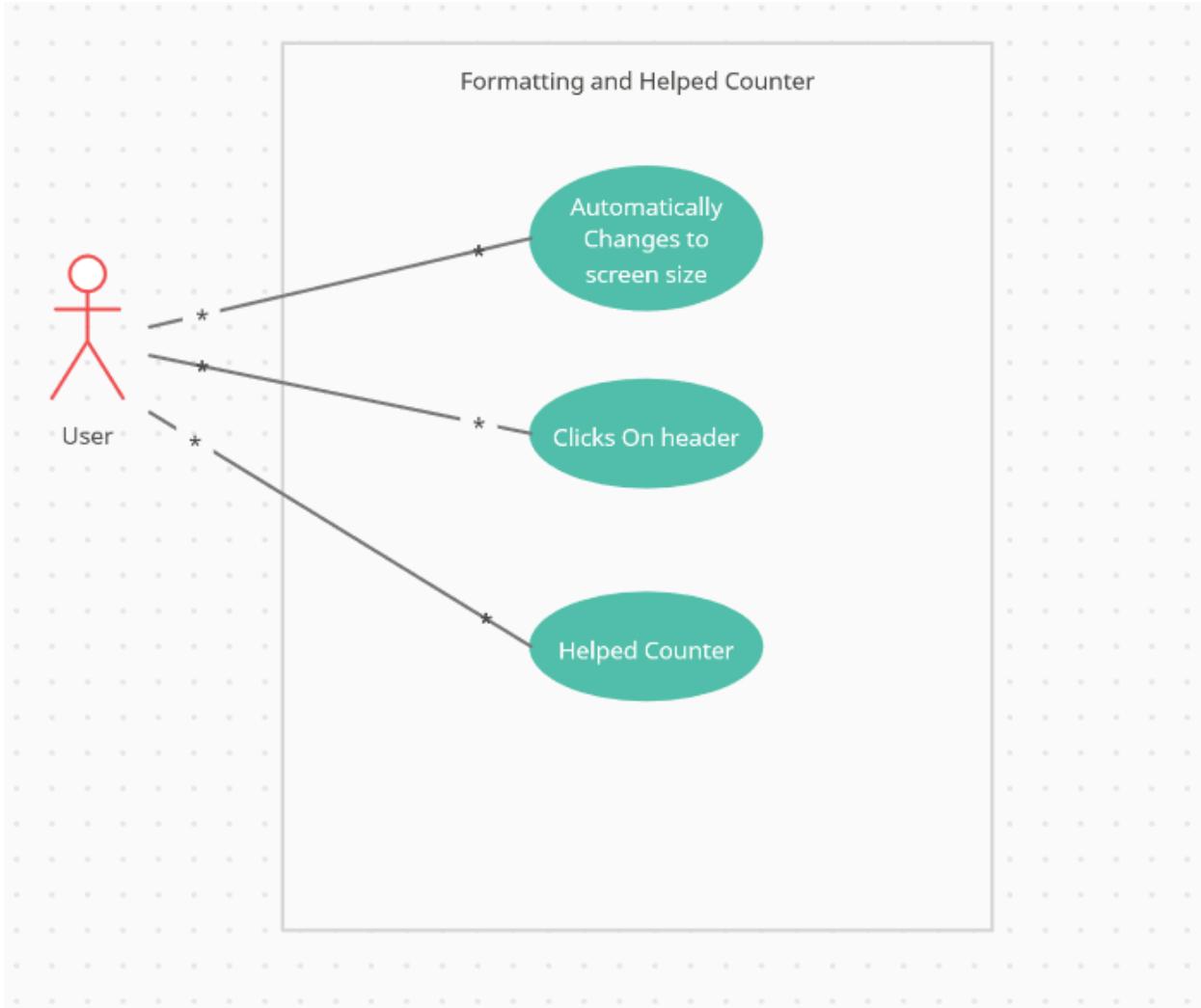
## Use Case 40: Export module



## Questionnaire Narrative

The goal of the Questionnaire module is to gather data on different questions that users may have. This is enhanced by the ability to export it to excel, as it allows for the data that is exported to be manipulated and changed as needed. It also allows for any numerical data to be put into a graph to be shown to possible large donors, or for the owner to see where to better focus their efforts.

## Use Case 41-43: Formatting and Helped Counter

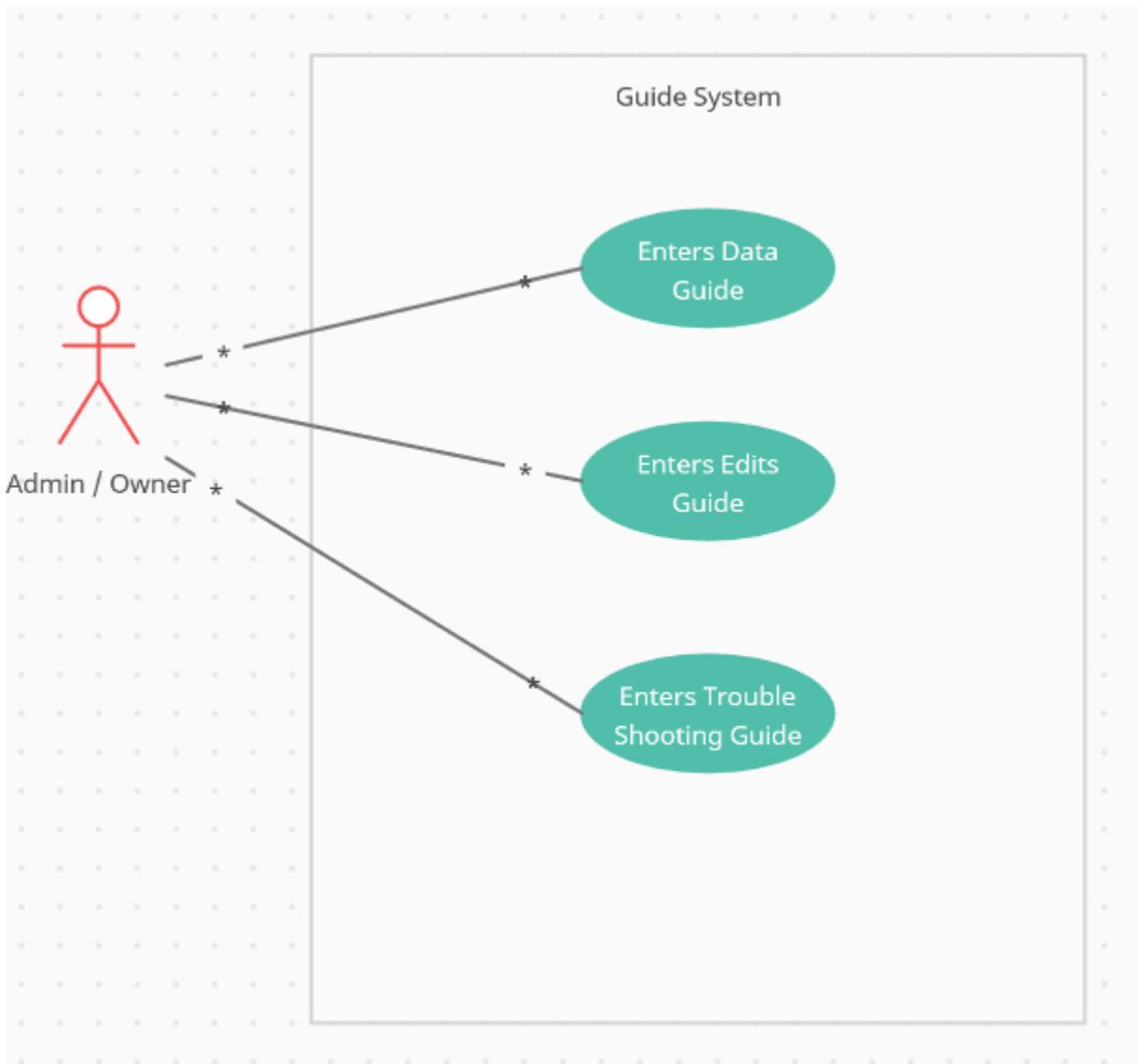


## Formatting and Helped Kid Counter Narrative

The formatting being consistent throughout the website is important and is something you notice instantly when you enter any website. If you have to scroll sideways on a mobile website you know it wasn't designed well, because information is hard to access and was clearly not meant for the mobile user. The header and the footer being the same is also important as you should keep a consistent design so a user doesn't get lost, or confused on the page.

The Helped kid counter is important because it helps to imbue the impact of what the organization does for kids when you first enter the site.

## Use Case 44-46: Guides



### Guide Narrative

Each of the different guides are meant to help the website stay sustainable throughout the years it's up. The guides are meant to help different areas of the website, whether that be recommendations for how to organize and present data, along with what certain metrics may mean, or how to make simple edits. The guides are meant to help the owner or administrators use the website and modify it well into the future, so that it requires less work.

## 3. Trace Matrix

- [Link to Excel Sheet](#)

<h1>Worth The Words</h1> <p>         ID: SR001 - The Donation Module will allow recurring monthly donations to be set up.          ID: SR002 - The Donation Module will securely store and process payment information.          ID: SR003 - The Donation Module will allow administrators to manage donation subscriptions.          ID: SR004 - The Donation Module will allow notifications for payment confirmations to be sent.          ID: SR005 - The Donation Module will allow donors to manage their donation history.          ID: SR006 - The Event Calendar Module will display upcoming events to users.          ID: SR007 - The Event Calendar Module will allow users to view event details by clicking on an event.          ID: SR008 - The Event Calendars Module will allow administrators to create new event entries.          ID: SR009 - The Event Calendars Module will allow administrators to modify existing event details.          ID: SR010 - The Event Calendars Module will allow users to search for events by date or category.          ID: SR011 - The Questionnaire Module will allow administrators to customize questions to get information or input their desire.          ID: SR012 - The Questionnaire Module will allow administrators to modify the design of the form to fit the format their desire.          ID: SR013 - The Questionnaire Module will allow administrators to configure questions to be short answer, paragraph, multiple choice, checkboxes, and dropdown question types.          ID: SR014 - The Questionnaire Module will allow administrators to add, remove, or reorder questions as needed.          ID: SR015 - The Questionnaire Module will allow administrators to set mandatory questions that users must answer before submitting the form.          ID: SR016 - The Questionnaire Module will allow users to save the form and return to complete it later by having an auto-save feature.          ID: SR017 - The Questionnaire Module will allow administrators to preview the form before publishing it.          ID: SR018 The Questionnaire Module will allow administrators to view the answers the users submitted.          ID: SR019 The Questionnaire Module will allow users data security and privacy by encrypting user responses.          ID: SR020 The Questionnaire Module will allow administrators real-time data validation of user input to ensure they are in the correct format (email addresses and phone numbers).          ID: SR021 - The Questionnaire Form will allow for interested users to view potential volunteer opportunities.          ID: SR022 - The Volunteer Form will allow for users to submit their credentials for specific jobs.          ID: SR023 - The Volunteer Form will allow user information be automatically stored.          ID: SR024 - The Contact Form will allow for users to submit questions.          ID: SR025 - The Contact Form will allow for users to get specific information.          ID: SR026 - The Contact form will allow you to put in your email to be emailed about events and a newsletter.          ID: SR027 - The donation banner will have a redirect to our payment system.          ID: SR028 - The donation banner will have a check box for getting a newsletter          ID: SR029 - The header will need buttons to redirect you to each of the different areas of the site.          ID: SR030 - The header will have a link for google+ and facebook.          ID: SR031 - The header will have a clickable title to take you back to the home page          ID: SR032 - The Socials will have a widget for a live social feed of Instagram          ID: SR033 - The usage of https so that the website is secure          ID: SR034 - The website will use a secure plugin to secure personal information          ID: SR035 - Personal information will be encrypted, and not stored in plain text          ID: SR036 - The addition of analytics through a plug-in          ID: SR037 - Sales analytics in square          ID: SR038 - An owner and administrators only way to access the analytics          ID: SR039 - Different formats to view analytics, and how to compare the data          ID: SR040 - Questionnaire form auto export to google sheet to allow for manipulation, and data viewing          ID: SR041 - A counter that can be set by the owner for how many people have been helped.          ID: SR042 - Content should be accessible on a variety of screen sizes          ID: SR043 - Content can be modified by admins and owners          ID: SR044 - Header and footer will be the same across pages          ID: SR045 - A guide for how to use the analytics and what the data may mean          ID: SR046 - A guide for how to modify text and images          ID: SR047 - Resources in that guide on possible resources/ troubleshooting issues.       </p>	Data from the trace matrix <p>Use Case 1: Set Up Recurring Monthly Donations</p> <p>Use Case 2: Secure Payment Processing</p> <p>Use Case 3: Manage Donation Subscriptions</p> <p>Use Case 4: Send Payment Confirmations</p> <p>Use Case 5: View and Manage Donation History</p> <p>Use Case 6: View Upcoming Events</p> <p>Use Case 7: View Event Details</p> <p>Use Case 8: Add New Event</p> <p>Use Case 9: Modify Event Details</p> <p>Use Case 10: Search for Events by Date or Category</p> <p>Use Case 11: Question Customization</p> <p>Use Case 12: Form Customization</p> <p>Use Case 13: Question Type Configuration</p> <p>Use Case 14: Question Updates</p> <p>Use Case 15: Mandatory Questions</p> <p>Use Case 16: Autocomplete Feature</p> <p>Use Case 17: Questionnaire Preview</p> <p>Use Case 18: Questionnaire Review</p> <p>Use Case 19: Encrypt User Responses</p> <p>Use Case 20: Validate User Input</p> <p>Use Case 21: Validate Form Inquiry</p> <p>Use Case 22: Validator Form Credentials</p> <p>Use Case 23: Validator Form Skills</p> <p>Use Case 24: Contact Form Submission</p> <p>Use Case 25: Create Form Options</p> <p>Use Case 26: Restoring Contact from</p> <p>Use Case 27: Donation Banner Redirect</p> <p>Use Case 28: View Donation Banner checkbox</p> <p>Use Case 29: Header Redirect</p> <p>Use Case 30: Social Links</p> <p>Use Case 31: Title to Homepage</p> <p>Use Case 32: Live Social Feed</p> <p>Use Case 33: Https</p> <p>Use Case 25: Create Form Options</p> <p>Use Case 35: Encryption for Information</p> <p>Use Case 36: Analytics: Plug in</p> <p>Use Case 37: Square Analytics</p> <p>Use Case 38: Owner and Administrator Privileges</p> <p>Use Case 39: Analytics: Summarizing</p> <p>Use Case 40: Questionnaire Form Submission</p> <p>Use Case 41: Helped Counter</p> <p>Use Case 42: Counter Should Be On All Screens</p> <p>Use Case 43: Counter Modification</p> <p>Use Case 44: Header and Footer Uniformity</p> <p>Use Case 45: Data Guide</p> <p>Use Case 46: Simple Guide</p> <p>Use Case 47: Troubleshooting Guide</p>
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## 4. Use Case Descriptions

Use Case 1:

<b>Use Case Name:</b> Set Up Recurring Monthly Donations	<b>ID:</b> 1	<b>Importance Level:</b> High
<b>Primary Actor:</b> Donor		<b>Use Case Type:</b> Detail, Essential

**Stakeholders and Interests:**

**Donor:** Wants to set up recurring monthly donations to continuously support the organization.

**Administrator:** Wants to ensure donors can easily configure and manage recurring donations with minimal friction.

**Brief Description:** This describes how a donor can set up a recurring monthly donation through the organization's website, providing sustained support for the cause.

**Trigger:** Donor selects the option to make recurring donations on the donation page

**Type:** Internal

**Relationships:**

Association: Donor

Include:

Extend:

Generalization:

**Normal Flow of Events:**

1. The donor visits the donation page.
2. The donor selects the option to set up a recurring monthly donation.
3. The system prompts the donor for payment details.
4. The system schedules the donation to recur every month.
5. The system confirms that the recurring donation has been successfully set up.

**SubFlows:****Alternate/Exceptional Flows:**

- 1a. The donor fails to input correct payment details, and the system displays an error message.
- 2a. The donor decides to cancel the donation setup process before confirming.
- 3a. The system encounters an error and fails to schedule the recurring donation.

Use Case 2:

<b>Use Case Name:</b> Secure Payment Processing	<b>ID:</b> 2	<b>Importance Level:</b> High
<b>Primary Actor:</b> Donor		<b>Use Case Type:</b> Detail, Essential
<b>Stakeholders and Interests:</b>  <b>Donor:</b> Wants to ensure that their payment information is handled securely. <b>Administrator:</b> Wants to ensure that all donor payment information is securely processed and stored, mitigating any risks of data breaches.		
<b>Brief Description:</b> This describes how the system securely processes the donor's payment information for donations, ensuring that sensitive financial data is protected throughout the transaction.		
<b>Trigger:</b> Donor submits payment information when completing the donation process. <b>Type:</b> Internal		
<b>Relationships:</b> Association: Donor Include: Extend: Generalization:		
<b>Normal Flow of Events:</b> <ol style="list-style-type: none"><li>1. The donor submits their payment information on the donation page.</li><li>2. The system securely transmits the payment data using encryption protocols.</li><li>3. The system processes the payment.</li><li>4. The system sends a confirmation to the donor and logs the transaction.</li></ol>		
<b>SubFlows:</b> <ol style="list-style-type: none"><li>1. Donor provides invalid payment details (e.g., expired card).</li></ol>		

**Alternate/Exceptional Flows:**

- 1a. The donor's payment is declined due to insufficient funds.
- 2a. The system detects potential fraud and halts the transaction.
- 3a. An error occurs during payment processing, and the donation fails.

Use Case 3:

<b>Use Case Name:</b> Manage Donation Subscriptions	<b>ID:</b> 3	<b>Importance Level:</b> High
<b>Primary Actor:</b> Administrator		<b>Use Case Type:</b> Detail, Essential
<b>Stakeholders and Interests:</b>		
<b>Administrator:</b> Wants to modify or update recurring donation subscriptions based on donor requests.		
<b>Brief Description:</b> This describes how administrators can adjust the details of donation subscriptions, such as donation amount and frequency.		
<b>Trigger:</b> An administrator accesses a donor's subscription information to make changes. <b>Type:</b> Internal		
<b>Relationships:</b> Association: Administrator Include: Extend: Generalization:		
<b>Normal Flow of Events:</b> <ol style="list-style-type: none"><li>1. The administrator logs in to the management dashboard.</li><li>2. The administrator searches for and selects a donor's subscription.</li><li>3. The administrator updates the subscription details (e.g., changes the donation amount or frequency).</li><li>4. The system saves the updated subscription details.</li></ol>		

**SubFlows:****Alternate/Exceptional Flows:**

- 1a. The administrator cannot find the correct donor's subscription information.
- 2a. The system encounters an error while trying to save the subscription updates.
- 3a. The administrator cancels the changes before finalizing the update.

Use Case 4:

<b>Use Case Name:</b> Send Payment Confirmations	<b>ID:</b> 4	<b>Importance Level:</b> Low
<b>Primary Actor:</b> System		<b>Use Case Type:</b> Detail, Essential

**Stakeholders and Interests:**

**Donor:** Expects to receive a confirmation email after each successful donation.

**Administrator:** Ensures that the system reliably sends payment confirmation emails to donors.

**Brief Description:** This describes how the system sends email confirmations after successful donations.

**Trigger:** Payment is successfully processed for a donation.

**Type:** Internal

**Relationships:**

Association: System

Include:

Extend:

Generalization:

**Normal Flow of Events:**

1. The system processes the donation.
2. The system generates a confirmation email.
3. The system sends the confirmation email to the donor's registered email address.

**SubFlows:**

1. Donor requests a resend of the confirmation email.

**Alternate/Exceptional Flows:**

- 1a. The email service fails, and the confirmation email is not sent.
- 2a. The donor does not receive the email due to incorrect email information on file.

Use Case 5:

<b>Use Case Name:</b> Manage Donation History	<b>ID:</b> 5	<b>Importance Level:</b> Low		
<b>Primary Actor:</b> Donor	<b>Use Case Type:</b> Detail, Essential			
<b>Stakeholders and Interests:</b>				
<b>Donor:</b> Wants to manage their donation history and recurring donation settings.				
<b>Brief Description:</b> This describes how donors can access their donation history and make changes to their recurring donations.				
<b>Trigger:</b> The donor logs in to their account to view or modify their donation history. <b>Type:</b> Internal				
<b>Relationships:</b> Association: Donor Include: Extend: Generalization:				
<b>Normal Flow of Events:</b> <ol style="list-style-type: none"><li>1. The donor logs into their account.</li><li>2. The donor accesses the donation history page.</li><li>3. The donor views past donations and subscription details.</li><li>4. The donor updates their donation settings, if needed.</li></ol>				

<b>SubFlows:</b>
<b>Alternate/Exceptional Flows:</b>
1a. The donor encounters an error accessing the donation history page.
2a. The donor's changes to their subscription fail to process due to a system error.

### Use Case 6: Display Upcoming Events

Use Case Name	Display Upcoming Events
<b>ID</b>	SR006
<b>Importance Level</b>	High
<b>Primary Actor</b>	User
<b>Use Case Type</b>	Detail
<b>Stakeholders and Interests</b>	<b>User:</b> wants easy access to upcoming event information. <b>Administrator:</b> ensures that users stay informed of scheduled events.
<b>Brief Description</b>	This use case describes how a user views a list of upcoming events, including essential details like date and time.
<b>Trigger</b>	User navigates to the Events page.
<b>Type</b>	External
<b>Relationships</b>	<b>Association:</b> User
<b>Normal Flow of Events</b>	1. User accesses the Events page. 2. System retrieves and displays upcoming events ordered by date. 3. User views the list.
<b>Alternate/Exceptional Flows</b>	1a. No upcoming events are found; system displays a "No events scheduled" message.

### Use Case 7: View Event Details

Use Case Name	View Event Details
ID	SR007
Importance Level	High
Primary Actor	User
Use Case Type	Detail
Stakeholders and Interests	<p><b>User:</b> seeks detailed information about specific events.</p> <p><b>Administrator:</b> ensures event information is accurate and accessible.</p>
Brief Description	Allows users to view full details of a selected event from the events list.
Trigger	User clicks on an event title or link.
Type	External
Relationships	<b>Association:</b> User
Normal Flow of Events	<ol style="list-style-type: none"> <li>1. User selects an event from the events list.</li> <li>2. System loads and displays detailed information about the event.</li> </ol>
Alternate/Exceptional Flows	2a. Event details fail to load; system shows an error message.

### Use Case 8: Create New Event Entry

Use Case Name	Create New Event Entry
ID	SR008
Importance Level	High
Primary Actor	Administrator
Use Case Type	Detail
Stakeholders and Interests	<b>Administrator:</b> Adds new events to the system for user access.

<b>Brief Description</b>	Administrators create new event entries by filling out a form.
<b>Trigger</b>	Administrator selects “Create New Event.”
<b>Type</b>	Internal
<b>Relationships</b>	<b>Association:</b> Administrator
<b>Normal Flow of Events</b>	<ol style="list-style-type: none"> <li>1. Administrator opens the event management panel.</li> <li>2. Selects “Create New Event.”</li> <li>3. System provides a form to enter event details.</li> <li>4. Administrator fills and submits form.</li> <li>5. System confirms successful event creation.</li> </ol>
<b>Alternate/Exceptional Flows</b>	<p>4a. System prompts for missing fields.</p> <p>5a. System error occurs; administrator is notified to retry.</p>

#### **Use Case 9: Modify Existing Event Details**

<b>Use Case Name</b>	<b>Modify Existing Event Details</b>
<b>ID</b>	SR009
<b>Importance Level</b>	Low
<b>Primary Actor</b>	Administrator
<b>Use Case Type</b>	Detail
<b>Stakeholders and Interests</b>	<b>Administrator:</b> Ensures event details are accurate and up-to-date.
<b>Brief Description</b>	Allows administrators to modify details of existing events.
<b>Trigger</b>	Administrator selects an event to edit.
<b>Type</b>	Internal
<b>Relationships</b>	<b>Association:</b> Administrator

<b>Normal Flow of Events</b>	<ol style="list-style-type: none"> <li>1. Administrator accesses the event management panel.</li> <li>2. Selects an existing event for editing.</li> <li>3. System loads event details into an editable form.</li> <li>4. Administrator makes changes and submits the form.</li> <li>5. System saves changes and confirms update.</li> </ol>
<b>Alternate/Exceptional Flows</b>	<ol style="list-style-type: none"> <li>3a. Required fields left blank; system prompts completion.</li> <li>4a. System error; administrator advised to retry.</li> </ol>

#### **Use Case 10: Search for Events by Date or Category**

<b>Use Case Name</b>	<b>Search for Events by Date or Category</b>
<b>ID</b>	SR010
<b>Importance Level</b>	High
<b>Primary Actor</b>	User
<b>Use Case Type</b>	Detail
<b>Stakeholders and Interests</b>	<b>User:</b> Needs to locate events based on specific criteria like date or category.
<b>Brief Description</b>	Enables users to search for events by specifying a date or category filter.
<b>Trigger</b>	User inputs search criteria (date or category).
<b>Type</b>	External
<b>Relationships</b>	<b>Association:</b> User
<b>Normal Flow of Events</b>	<ol style="list-style-type: none"> <li>1. User accesses the Events page and enters a date or selects a category.</li> <li>2. System retrieves events matching the criteria.</li> <li>3. System displays matching events to the user.</li> </ol>
<b>Alternate/Exceptional Flows</b>	<ol style="list-style-type: none"> <li>2a. No events match criteria; system displays “No matching events” message.</li> </ol>

Use Case 11:

<b>Use Case Name:</b> Create Customized Questions	<b>ID:</b> 11	<b>Importance Level:</b> Low
<b>Primary Actor:</b> Administrator		<b>Use Case Type:</b> Detail, Essential
<b>Stakeholders and Interests:</b> <ul style="list-style-type: none"><li>• <b>User:</b> wants to answer questions relevant to volunteering.</li><li>• <b>Administrator:</b> wants to ensure that the questions created get the information they need or are seeking (e.g., volunteer role, volunteer history, feedback)</li></ul>		
<b>Brief Description:</b> This describes how administrators can create and customize questions within the form software, tailoring them to specific needs and preferences.		
<b>Trigger:</b> Administrator goes into the form software to make a new form or to edit an existing form. In design view, they can make their own questions to obtain the information they need from the user.		
<b>Type:</b> Internal		
<b>Relationships:</b> Association: Administrator  Include:  Extend:  Generalization:		

**Normal Flow of Events:**

1. The administrator logs into the system.
2. The administrator navigates to the form or questionnaire creation section.
3. The administrator goes to the form design to create or modify questions.
4. The administrator enters the questions as:
  - “How did you find out about us?”
  - “Have you worked with us before?”
  - “What volunteer activities are you interested in?”
  - “What is your availability?”
  - “Do you consent to a background check?”
  - “Do you have any feedback for us to help us improve?”
5. The administrator saves the questionnaire.
6. The system confirms the form has been successfully saved.
7. The administrator previews the questionnaire to ensure they are correct and in the right format.
8. The administrator exits the questionnaire creation section.

**SubFlows:****Alternate/Exceptional Flows:**

- 1a. The administrator enters a question in the incorrect format (e.g., character length, prohibited characters, etc.)
- 2a. The system prompts the administrator to correct the formatting issues.

Use Case 12:

<b>Use Case Name:</b> Design Customizable Forms	<b>ID:</b> 12	<b>Importance Level:</b> Low
<b>Primary Actor:</b> Administrator		<b>Use Case Type:</b> Detail, Essential
<b>Stakeholders and Interests:</b>		
<ul style="list-style-type: none"> <li>• <b>Administrator:</b> wants to make sure the form is designed to look the way they want it.</li> </ul>		
<b>Brief Description:</b> This describes how the administrator designs and customizes the form to meet their requirements and preferences.		
<b>Trigger:</b> The administrator wants to create or modify a form.		
<b>Type:</b> Internal		
<b>Relationships:</b>		
Association: Administrator		
Include:		
Extend:		
Generalization:		

**Normal Flow of Events:**

1. The administrator logs into the system.
2. The administrator navigates to the form or questionnaire creation section.
3. The administrator goes to the form design to create or modify an existing form.
4. The administrator adds and arranges form fields (e.g., text boxes, dropdowns, checkboxes).
5. The administrator customizes the form's appearance (e.g., color, fonts, layout).
6. The administrator saves the form.
7. The system confirms the form has been successfully saved.
8. The administrator previews the questionnaire to ensure the form meets their specifications.
9. The administrator exits the form design view.

**SubFlows:****Alternate/Exceptional Flows:**

- 1a. The administrator previews the form and finds issues.
- 2a. The administrator corrects the issue and previews the form again.

Use Case 13:

<b>Use Case Name:</b> Configure Question Formats	<b>ID:</b> 13	<b>Importance Level:</b> Low
<b>Primary Actor:</b> Administrator		<b>Use Case Type:</b> Detail, Essential

**Stakeholders and Interests:**

- **Administrator:** wants to ensure questions are in the correct format to gather the desired information from the user.

**Brief Description:** This describes how administrators can configure questions to make the format them short answer, paragraph, multiple choice, or checkboxes.

**Trigger:** Administrator decides to modify or create new question.

**Type:** Internal

**Relationships:**

Association: Administrator

Include:

Extend:

Generalization:

**Normal Flow of Events:**

1. The administrator logs into the system.
2. The administrator navigates to the form creation section or to open an existing form.
3. The administrator goes to the form design to create or modify questions.
4. The administrator selects the format for the question to be short answer, paragraph, multiple choice, or checkboxes.
5. The administrator saves the questionnaire.
6. The system confirms the form has been successfully saved.
7. The administrator previews the questionnaire to ensure the questions are in the correct format.
8. The administrator exits the form design view.

**SubFlows:**

**Alternate/Exceptional Flows:**

- 1a. The administrator enters invalid options for question details (e.g., missing details for multiple choice).
- 2a. The system prompts the administrator to correct the formatting issues.

Use Case 14:

<b>Use Case Name:</b> Modify Question Order	<b>ID:</b> 14	<b>Importance Level:</b> Low		
<b>Primary Actor:</b> Administrator	<b>Use Case Type:</b> Detail, Essential			
<b>Stakeholders and Interests:</b>				
<ul style="list-style-type: none"><li>● <b>Administrator:</b> wants to ensure questions are in the correct logical order by adding, removing, or updating the questions.</li></ul>				
<b>Brief Description:</b> This describes how the administrator can add, remove, or change the question order according to their preferential sequence.				
<b>Trigger:</b> Administrator decides to update or rearrange the question order.				
<b>Type:</b> Internal				
<b>Relationships:</b>				
Association: Administrator				
Include:				
Extend:				
Generalization:				

**Normal Flow of Events:**

1. The administrator logs into the system.
2. The administrator navigates to the form creation section or to open an existing form.
3. The administrator goes to the form design to add, delete, or modify questions.
4. The administrator changes the order of the questions by using drag and drop features with the form design.
5. The administrator saves the questionnaire.
6. The system confirms the form has been successfully saved.
7. The administrator previews the questionnaire to ensure the questions are in the correct order.
8. The administrator exits the form design view.

**SubFlows:****Alternate/Exceptional Flows:**

- 1a. The administrator encounters an error while trying to rearrange the question order.
- 2a. The system prompts the error message and tells the user to try again.

Use Case 15:

<b>Use Case Name:</b> Set Mandatory or Optional Questions	<b>ID:</b> 15	<b>Importance Level:</b> Low
<b>Primary Actor:</b> Administrator		<b>Use Case Type:</b> Detail, Essential
<b>Stakeholders and Interests:</b>		
<ul style="list-style-type: none"><li>• <b>Administrator:</b> wants to ensure questions essential questions are answered by the user and setting non-essential questions as optional.</li></ul>		
<b>Brief Description:</b> This describes how the administrator can add, remove, or change the question order according to their preferential sequence.		
<b>Trigger:</b> Administrator decides to set questions as mandatory or optional.		
<b>Type:</b> Internal		
<b>Relationships:</b>		
Association: Administrator		
Include:		
Extend:		
Generalization:		

**Normal Flow of Events:**

1. The administrator logs into the system.
2. The administrator navigates to the form creation section or to open an existing form.
3. The administrator goes to the form design to configure questions as optional or mandatory.
4. The administrator saves the questionnaire.
5. The system confirms the form has been successfully saved.
6. The administrator previews the questionnaire to ensure the questions are correctly designated as optional or mandatory.
7. The administrator exits the form design view.

**SubFlows:****Alternate/Exceptional Flows:**

- 1a. The administrator identifies an issue during the form preview.
- 1b. The administrator corrects the issue.

Use Case 16:

<b>Use Case Name:</b> Enable Form Autosave	<b>ID:</b> 16	<b>Importance Level:</b> High
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<b>Primary Actor:</b> User	<b>Use Case Type:</b> Detail, Essential
<b>Stakeholders and Interests:</b>	
<ul style="list-style-type: none"> <li><b>User:</b> wants to save their progress so they can return to the form at another time.</li> <li><b>Administrator:</b> wants to ensure the user has the flexibility to either complete the questionnaire in one sitting or come back to complete at another time.</li> </ul>	
<b>Brief Description:</b> This describes how the system enables the autosave feature for forms, allowing users to return to the form later without losing their progress.	
<b>Trigger:</b> User starts to answer the questionnaire questions. <b>Type:</b> Internal	
<b>Relationships:</b>	
Association: User Include: Extend: Generalization:	

**Normal Flow of Events:**

1. The user logins into the system.
2. The user navigates to the Worth the Words website.
3. The user goes to the Get Involved section of the website and is redirected to the questionnaire.
4. The user begins to fill out the questionnaire.
5. The user decides to exit the questionnaire.
6. The system ensures the data was autosaved securely.
7. The user returns to complete the questionnaire.
8. The system retrieves the data from the previous session and restores the form to its previous state.
9. The user continues the questionnaire
10. The user completes and submits the questionnaire.
11. The system confirms the submission and receives the questionnaire data.

**SubFlows:**

**Alternate/Exceptional Flows:**

- 1a. The system encounters an error saving and alerts the user.
- 1b. The system tries to save again.
- 1c. The system fails to retrieve the saved data from the user's last session.
- 1d. The system alerts the user and presents them with options to retry or start a new form.

Use Case 17:

<b>Use Case Name:</b> Preview Form Before Publishing	<b>ID:</b> 17	<b>Importance Level:</b> Low
<b>Primary Actor:</b> Administrator		<b>Use Case Type:</b> Overview, Real
<b>Stakeholders and Interests:</b>		
<b>Administrator:</b> wants to ensure the form is correct and complete before publishing.		
<b>Brief Description:</b> This describes how the administrator previews the form and confirms it is correct before making it available for users to complete		
<b>Trigger:</b> The administrator publishes the form.		
<b>Type:</b> Internal		
<b>Relationships:</b>		
Association: Administrator		
Include:		
Extend:		

Generalization:

**Normal Flow of Events:**

1. The administrator logins into the system.
2. The administrator views the form they want to publish.
3. The administrator goes into the form design for the questionnaire.
4. The administrator previews the form.
5. The system displays the questionnaire in preview format.
6. The administrator decides if they need to adjust the questionnaire.
7. The administrator decides to publish the questionnaire.
8. The system confirms the form was published.

**SubFlows:**

**Alternate/Exceptional Flows:**

- 1a. The administrator finds an issue while previewing the questionnaire.
  - 1b. The administrator corrects the issue.

Use Case 18:

<b>Use Case Name:</b> Review User Submitted Responses	<b>ID:</b> 18	<b>Importance Level:</b> Low
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<b>Primary Actor:</b> Administrator	<b>Use Case Type:</b> Overview, Real
<b>Stakeholders and Interests:</b>	
<ul style="list-style-type: none"> <li><b>Administrator:</b> wants to review the questionnaire answers submitted by the user to collect and analyze responses to make informed decisions.</li> </ul>	
<b>Brief Description:</b> This describes how the administrator reviews the answers submitted by the user.	
<b>Trigger:</b> The administrator decides to review the submitted user responses from the questionnaire. <b>Type:</b> Internal	
<b>Relationships:</b>	
Association: Administrator	
Include:	
Extend:	
Generalization:	

**Normal Flow of Events:**

1. The administrator logins into the system.
2. The administrator navigates to the questionnaire they want to view results for.
3. The administrator navigates to the Analyze Results section.
4. The administrator navigates to the Individual Responses tab.
5. The system displays the questionnaire results.
6. The administrator exports or saves the results to complete further analysis.
7. The administrator decides to publish the questionnaire.
8. The administrator exits the response section of the website.

**SubFlows:****Alternate/Exceptional Flows:**

- 1a. The system encounters an error while retrieving the error.
- 1b. The system prompts the administrator to try again.

Use Case 19:

<b>Use Case Name:</b> Encrypt User Responses	<b>ID:</b> 19	<b>Importance Level:</b> High
<b>Primary Actor:</b> System		<b>Use Case Type:</b> Detail, Essential
<b>Stakeholders and Interests:</b>		
<p><b>User:</b> wants to ensure their data is secure and protected.</p> <p><b>Administrator:</b> wants to ensure user data is encrypted to maintain security and privacy.</p>		
<b>Brief Description:</b> This describes how the system encrypts the user responses from the questionnaire.		
<b>Trigger:</b> A user inputs their answers and submits the questionnaire.		
<b>Type:</b> Internal		
<b>Relationships:</b>		
Association: Administrator		
Include:		
Extend:		
Generalization:		

**Normal Flow of Events:**

1. The user logins into the system.
2. The user navigates to the Worth the Words website.
3. The user navigates to the Get Involved section and clicks on the Questionnaire picture.
4. The system takes the user to the questionnaire.
5. The user inputs their responses to the questionnaire.
6. The user submits their completed questionnaire.
7. The system receives the user's responses.
8. The system encrypts the data.
9. The system stores the encrypted data in a database.
10. The system confirms the encryption and storage processes were successful.

**SubFlows:****Alternate/Exceptional Flows:**

- 1a. The system encounters an error while encrypting the data.
- 1b. The system alerts the administrator and reattempts to encrypt the data.

Use Case 20:

<b>Use Case Name:</b> Validate User Input Formats	<b>ID:</b> 20	<b>Importance Level:</b> High
<b>Primary Actor:</b> System		<b>Use Case Type:</b> Detail, Essential
<b>Stakeholders and Interests:</b>		
<b>User:</b> wants to ensure their data is correctly formatted and accepted.		
<b>Administrator:</b> wants to ensure data integrity by validating user inputs.		
<b>Brief Description:</b> This describes how the system validates user input to make sure it is in the correct format (e.g., email address and phone number).		
<b>Trigger:</b> A user inputs their answer into a field.		
<b>Type:</b> Internal		
<b>Relationships:</b>		
Association: System		
Include:		
Extend:		
Generalization:		

**Normal Flow of Events:**

1. The user logins into the system.
2. The user navigates to the Worth the Words website.
3. The user navigates to the Get Involved section and clicks on the Questionnaire picture.
4. The system takes the user to the questionnaire.
5. The user inputs their responses to the questionnaire.
6. The system validates that the input is in the correct format (e.g., birthdate, phone number, email address).
7. The system accepts the data.
8. The system rejects the data.
9. The user corrects the issue or continues to take the questionnaire.
10. The system revalidates the user input if the user corrected the input.
11. The system accepts the data.

**SubFlows:**

**Alternate/Exceptional Flows:**

- 1a. The user continually puts data in the wrong format and gets error messages.
- 1b. The system assists the user correct the issue or kicks them out of the questionnaire.

Use Case 21:

<b>Use Case Name:</b> Expand Volunteer Form	<b>ID:</b> 21	<b>Importance Level:</b> Low		
<b>Primary Actor:</b> User	<b>Use Case Type:</b> Detail, Essential			
<b>Stakeholders and Interests:</b> <ul style="list-style-type: none"><li>- User: wants to fill out the form</li><li>- Administrator: wants more service opportunities</li></ul>				
<b>Brief Description:</b> The Website Visitor can press the volunteer form and multiple options will be available based on future events.				
<b>Trigger:</b> User clicks on the form link <b>Type:</b> External				
<b>Relationships:</b> Association: User Extend: Use Case 22,23,24				
<b>Normal Flow of Events:</b> <ol style="list-style-type: none"><li>1. User clicks link</li><li>2. Pop-up appears with multiple volunteer opportunities</li><li>3. User fills out form</li></ol>				
<b>SubFlows:</b>				
<b>Alternate/Exceptional Flows:</b> <ol style="list-style-type: none"><li>1. User clicks link</li><li>2. Link is invalid message</li><li>3. User leaves the site</li></ol>				

Use Case 22:

<b>Use Case Name:</b> Fill Volunteer Form	<b>ID:</b> 22	<b>Importance Level:</b> Low
<b>Primary Actor:</b> User	<b>Use Case Type:</b> Detail, Essential	

<b>Stakeholders and Interests:</b>
<ul style="list-style-type: none"> <li>- User: Wants to fill out the form</li> <li>- Administrator: Wants specific volunteer info</li> </ul>
<b>Brief Description:</b> The Visitor will be able to fill out the volunteer form based on what interests or skills they have.
<b>Trigger:</b> User clicks the form link <b>Type:</b> External
<b>Relationships:</b> Association: User Extend: Use Case 21,23,24
<b>Normal Flow of Events:</b> <ol style="list-style-type: none"> <li>1. User has clicked Volunteer form link, sees options to fill out</li> <li>2. User fills out their credentials on the form</li> </ol>
<b>SubFlows:</b>
<b>Alternate/Exceptional Flows:</b> <ol style="list-style-type: none"> <li>1. User clicks link</li> <li>2. Link is invalid</li> <li>3. User leaves the site</li> </ol>

Use Case 23:

<b>Use Case Name:</b> Create Skills Sheet	<b>ID:</b> 23	<b>Importance Level:</b> Low		
<b>Primary Actor:</b> System	<b>Use Case Type:</b> Detail, Essential			
<b>Stakeholders and Interests:</b>				
<ul style="list-style-type: none"> <li>- User: Wants to fill out the form</li> <li>- System: Uses info to create a data spreadsheet</li> </ul>				
<b>Brief Description:</b> When a user fills out their information, the system will be able to store their responses in a spreadsheet.				
<b>Trigger:</b> User submits Volunteer Form <b>Type:</b> External				
<b>Relationships:</b> Association: User and System Extend: Use Case 21,22,24				
<b>Normal Flow of Events:</b>				

1. User submits form 2. System collects data into spreadsheet
<b>SubFlows:</b>
<b>Alternate/Exceptional Flows:</b>

Use Case 24:

<b>Use Case Name:</b> Submitting Contact Form	<b>ID:</b> 24	<b>Importance Level:</b> High		
<b>Primary Actor:</b> User	<b>Use Case Type:</b> Detail, Essential			
<b>Stakeholders and Interests:</b>				
<ul style="list-style-type: none"> <li>- User: Wants a question to be answered</li> <li>- Administrator: Wants a question to be asked</li> </ul>				
<b>Brief Description:</b> The Visitor can ask a question and submit it through the form.				
<b>Trigger:</b> User clicks on submit button <b>Type:</b> External				
<b>Relationships:</b> Association: Administrator Extend: Use Case 25,26				
<b>Normal Flow of Events:</b> <ol style="list-style-type: none"> <li>1. User clicks on link</li> <li>2. Contact form can be filled out</li> <li>3. Form is submitted</li> </ol>				
<b>SubFlows:</b>				
<b>Alternate/Exceptional Flows:</b> <ol style="list-style-type: none"> <li>1. User clicks link</li> <li>2. Link is expired or invalid</li> </ol>				

Use Case 25:

<b>Use Case Name:</b> Contact Form Options	<b>ID:</b> 25	<b>Importance Level:</b> Low
<b>Primary Actor:</b> User	<b>Use Case Type:</b> Detail, Essential	
<b>Stakeholders and Interests:</b>		

<ul style="list-style-type: none"> <li>- User: Has a question or inquiry they want answered</li> </ul>
<b>Brief Description:</b> The Website Visitor Can go to the form and submit a question, concern, or connection opportunity.
<b>Trigger:</b> User clicks on link <b>Type:</b> External
<b>Relationships:</b>
<b>Normal Flow of Events:</b> <ol style="list-style-type: none"> <li>1. User clicks form</li> <li>2. They fill out the form</li> </ol>
<b>SubFlows:</b>
<b>Alternate/Exceptional Flows:</b> <ol style="list-style-type: none"> <li>1. User clicks form</li> <li>2. Link is invalid or form is expired</li> </ol>

Use Case 26:

<b>Use Case Name:</b> Create Recurring Contact Form	<b>ID:</b> 26	<b>Importance Level:</b> Low		
<b>Primary Actor:</b> System	<b>Use Case Type:</b> Detail, Essential			
<b>Stakeholders and Interests:</b>				
<ul style="list-style-type: none"> <li>- User: Wants to receive recurring news and info</li> <li>- Administrator: Wants to send out relevant information regularly</li> </ul>				
<b>Brief Description:</b> The Contact form will allow for user to put in an email to be emailed about events on a regular basis				
<b>Trigger:</b> User clicks recurring email box question <b>Type:</b> External				
<b>Relationships:</b> Association: User, Administrator Extend: Use Case 24,25				
<b>Normal Flow of Events:</b> <ol style="list-style-type: none"> <li>1. User gets to end of contact form</li> <li>2. User opts in to recurring emails</li> </ol>				
<b>SubFlows:</b>				

### **Alternate/Exceptional Flows:**

Use Case 27:

<b>Use Case Name:</b> Create Donation Banner Redirect	<b>ID:</b> 27	<b>Importance Level:</b> Low
<b>Primary Actor:</b> User		<b>Use Case Type:</b> Detail, Essential
<b>Stakeholders and Interests:</b> <ul style="list-style-type: none"><li>- User: wants to donate to the organization</li><li>- Administrator: wants to get donations</li></ul>		
<b>Brief Description:</b> The donation button will redirect to Square.		
<b>Trigger:</b> User clicks on link <b>Type:</b> External		
<b>Relationships:</b> Association: User		
<b>Normal Flow of Events:</b> <ol style="list-style-type: none"><li>1. User clicks donate button</li><li>2. User is redirected to square site</li></ol>		
<b>SubFlows:</b>		
<b>Alternate/Exceptional Flows:</b> <ol style="list-style-type: none"><li>1. User clicks donate button</li><li>2. Square site is under maintenance</li><li>3. User leaves the site</li></ol>		

Use Case 29:

<b>Use Case Name:</b> Redirect Header to Home	<b>ID:</b> 29	<b>Importance Level:</b> Low
<b>Primary Actor:</b> User		<b>Use Case Type:</b> Detail, Essential
<b>Stakeholders and Interests:</b> <ul style="list-style-type: none"><li>- User: wants to go to the website homepage</li></ul>		
<b>Brief Description:</b> The header will redirect you to each of the different areas of the website		
<b>Trigger:</b> User clicks on link <b>Type:</b> External		

<b>Relationships:</b> Association: User
<b>Normal Flow of Events:</b> <ol style="list-style-type: none"> <li>1. User clicks Home button</li> <li>2. User is directed to front page of the website</li> </ol>
<b>SubFlows:</b>
<b>Alternate/Exceptional Flows:</b>

Use Case 30:

<b>Use Case Name:</b> Create Social Links	<b>ID:</b> 30	<b>Importance Level:</b> Low		
<b>Primary Actor:</b> User	<b>Use Case Type:</b> Detail, Essential			
<b>Stakeholders and Interests:</b> <ul style="list-style-type: none"> <li>- User: wants to see socials</li> <li>- Administrator: wants social media attention</li> </ul>				
<b>Brief Description:</b> Link for instagram and facebook in the header that the user can click				
<b>Trigger:</b> User clicks on button <b>Type:</b> External				
<b>Relationships:</b> Association: User				
<b>Normal Flow of Events:</b> <ol style="list-style-type: none"> <li>1. User clicks on socials button</li> </ol>				
<b>SubFlows:</b>				
<b>Alternate/Exceptional Flows:</b>				

Use Case 30:

Use Case 31:

<b>Use Case Name:</b> Redirect From Title To Homepage	<b>ID:</b> 31	<b>Importance Level:</b> Low
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<b>Primary Actor:</b> Website Visitor	<b>Use Case Type:</b> Detail, Essential
<b>Stakeholders and Interests:</b>	
<p><b>Website Visitor:</b> Wants an easy way to navigate back to the homepage.</p> <p><b>Administrator:</b> Wants to ensure navigation is intuitive and the title functions as a home link.</p>	
<b>Brief Description:</b> This describes how a website visitor can click on the header title to be redirected to the homepage.	
<p><b>Trigger:</b> Visitor clicks on the title in the header.</p> <p><b>Type:</b> External</p>	
<b>Relationships:</b>	
Association: Website Visitor Include: Extend: Generalization:	
<b>Normal Flow of Events:</b>	
1. Website visitor clicks on the header title. 2. Website redirects the visitor to the homepage.	
<b>SubFlows:</b>	
<b>Alternate/Exceptional Flows:</b>	

Use Case 32:

<b>Use Case Name:</b> Click Live Social Feed	<b>ID:</b> 32	<b>Importance Level:</b> Low
<b>Primary Actor:</b> Website Visitor	<b>Use Case Type:</b> Detail, Essential	

<b>Stakeholders and Interests:</b>
<b>Website Visitor:</b> Wants to view live social media updates directly on the website. <b>Administrator:</b> Wants to engage visitors by displaying recent social media content.
<b>Brief Description:</b> This describes how a visitor views live social media feed, such as Instagram, embedded on the website.
<b>Trigger:</b> Visitor accesses a page with the social feed widget. <b>Type:</b> External
<b>Relationships:</b> Association: Website Visitor Include: Extend: Generalization:
<b>Normal Flow of Events:</b> <ol style="list-style-type: none"> <li>1. Website visitor navigates to a page with the social feed widget.</li> <li>2. Widget displays recent social media content from Instagram in real-time.</li> </ol>
<b>SubFlows:</b>
<b>Alternate/Exceptional Flows:</b>

Use Case 33:

<b>Use Case Name:</b> Buy SSL Certificate	<b>ID:</b> 33	<b>Importance Level:</b> High		
<b>Primary Actor:</b> Website Owner	<b>Use Case Type:</b> Detail, Essential			
<b>Stakeholders and Interests:</b>				
<b>Website Visitor:</b> Wants a secure browsing experience to protect personal data. <b>Website Owner:</b> Wants to secure the website and build trust with visitors.				

<b>Administrator:</b> Responsible for ensuring the SSL certificate is active and valid.
<b>Brief Description:</b> This describes how the website owner can purchase an SSL certificate to secure the website and enable HTTPS.
<b>Trigger:</b> Website owner decides to secure the site using HTTPS. <b>Type:</b> External
<b>Relationships:</b> Association: Website Owner Include: Extend: Generalization:
<b>Normal Flow of Events:</b> <ol style="list-style-type: none"><li>1. Website owner initiates the purchase of an SSL certificate from a provider.</li><li>2. SSL certificate is installed on the website, enabling HTTPS and securing data.</li></ol>
<b>SubFlows:</b>
<b>Alternate/Exceptional Flows:</b>

#### Use Case 34: Use a Security Plug-in to Secure Personal Information

<b>Use Case Name</b>	<b>Use a Security Plug-in to Secure Personal Information</b>
<b>ID</b>	SR034
<b>Importance Level</b>	High
<b>Primary Actor</b>	Administrator
<b>Use Case Type</b>	Detail
<b>Stakeholders and Interests</b>	<b>Administrator:</b> Protects user data and ensures compliance with security standards. <b>Users:</b> Expect their information to be safeguarded.
<b>Brief Description</b>	The system integrates a security plug-in to protect users' personal information.
<b>Trigger</b>	Security plug-in is activated during system setup.

<b>Type</b>	Internal
<b>Relationships</b>	<b>Association:</b> Administrator
<b>Normal Flow of Events</b>	<ol style="list-style-type: none"> <li>1. Administrator configures security plug-in settings.</li> <li>2. System activates the plug-in and applies security protocols.</li> <li>3. User data is encrypted, and access restrictions are enforced.</li> </ol>
<b>Alternate/Exceptional Flows</b>	2a. Plug-in installation fails; system alerts administrator and provides troubleshooting options.

#### Use Case 35: Encrypt Personal Information and Avoid Plain Text Storage

<b>Use Case Name</b>	<b>Encrypt Personal Information and Avoid Plain Text Storage</b>
<b>ID</b>	SR035
<b>Importance Level</b>	High
<b>Primary Actor</b>	Administrator
<b>Use Case Type</b>	Detail
<b>Stakeholders and Interests</b>	<b>Administrator:</b> Ensures data is encrypted to prevent unauthorized access. <b>Users:</b> Expect their information to be securely stored.
<b>Brief Description</b>	Ensures all personal information is encrypted rather than stored in plain text.
<b>Trigger</b>	Personal information is submitted and stored by the system.
<b>Type</b>	Internal
<b>Relationships</b>	<b>Association:</b> Administrator
<b>Normal Flow of Events</b>	<ol style="list-style-type: none"> <li>1. User submits personal information.</li> <li>2. System encrypts the information before storing it.</li> <li>3. Encrypted data is securely stored in the database.</li> </ol>
<b>Alternate/Exceptional Flows</b>	2a. Encryption process fails; system provides an error notification and retries encryption.

#### Use Case 36: Addition of Analytics for Site Data Analysis

<b>Use Case Name</b>	<b>Addition of Analytics for Site Data Analysis</b>
<b>ID</b>	SR036
<b>Importance Level</b>	Low
<b>Primary Actor</b>	Administrator

Use Case Type	Detail
<b>Stakeholders and Interests</b>	<b>Administrator:</b> Requires insights into site performance and user behavior. <b>Management:</b> Interested in analytics data to inform decisions.
<b>Brief Description</b>	Integrates an analytics plug-in for tracking site usage and engagement data.
<b>Trigger</b>	Administrator activates the analytics plug-in.
<b>Type</b>	Internal
<b>Relationships</b>	<b>Association:</b> Administrator
<b>Normal Flow of Events</b>	<ol style="list-style-type: none"> <li>Administrator configures and activates the analytics plug-in.</li> <li>System begins tracking user interactions and site metrics.</li> <li>System stores analytics data for reporting.</li> </ol>
<b>Alternate/Exceptional Flows</b>	1a. Plug-in setup fails; system notifies the administrator and suggests troubleshooting.

#### Use Case 37: Enable Sales Analytics through Square for Sales Data Analysis

Use Case Name	Enable Sales Analytics through Square for Sales Data Analysis
<b>ID</b>	SR037
<b>Importance Level</b>	Low
<b>Primary Actor</b>	Administrator
<b>Use Case Type</b>	Detail
<b>Stakeholders and Interests</b>	<b>Administrator:</b> Needs detailed sales insights for better decision-making. <b>Management:</b> Uses sales data to drive business strategies.
<b>Brief Description</b>	Integrates Square analytics to monitor sales data and generate insights.
<b>Trigger</b>	Sales transaction data is collected through Square integration.
<b>Type</b>	Internal
<b>Relationships</b>	<b>Association:</b> Administrator

<b>Normal Flow of Events</b>	1. Administrator configures Square analytics settings. 2. System links to Square account and begins tracking sales data. 3. Sales analytics are stored and made available for reporting.
<b>Alternate/Exceptional Flows</b>	1a. Square integration fails; system alerts the administrator and provides troubleshooting options.

### **Use Case 38: Manage Owner and Admin Privileges**

<b>Use Case Name:</b> Manage Owner and admin privileges	<b>ID:</b> 38	<b>Importance Level:</b> Low		
<b>Primary Actor:</b> Owner	<b>Use Case Type:</b> Overview, Real			
<b>Stakeholders and Interests:</b>				
<ul style="list-style-type: none"> <li>· <b>Owner:</b> Wants to prevent others from viewing the analytics</li> <li>· <b>Administrator:</b> Wants to view and manage the analytics.</li> </ul>				
<b>Brief Description:</b> This use case describes how the owner and administrator would manage the privileges for the analytics.				
<b>Trigger:</b> Owner wants to look at and or use analytics				
<b>Type:</b> External				
<b>Relationships:</b>				
<p><i>Association:</i> Administrator</p> <p><i>Include:</i></p> <p><i>Extend:</i></p> <p><i>Generalization:</i> Analytics system</p>				

**Normal Flow of Events:**

1. The admin wants to access their analytics
2. The admin clicks to log into their admin privileges
3. The admin gains access to their analytics and the ability to change who accesses it

**SubFlows:**

S-1: Analytical login

1. The User enters their information to log in
2. The user then goes to the analytics section to view their analytics

**Alternate/Exceptional Flows:**

None

**39: Viewing for analytics formatting**

<b>Use Case Name:</b> Viewing for analytics formatting	<b>ID:</b> 39	<b>Importance Level:</b> Low
<b>Primary Actor:</b> Owner	<b>Use Case Type:</b> Overview, Real	

**Stakeholders and Interests:**

- **Owner:** Wants to view the analytics in different formats and different ways
- **Administrator:** wants to see different types of analytics

**Brief Description:** This use case describes how the owner would need different kinds of analytics, and different formats for them

<b>Trigger:</b> User Analytics document and is presented with different formats of analytics
<b>Type:</b> Internal
<b>Relationships:</b>
<p><i>Association:</i> Owner</p> <p><i>Include:</i></p> <p><i>Extend:</i></p> <p><i>Generalization:</i> Analytics</p>
<b>Normal Flow of Events:</b>
<ol style="list-style-type: none"> <li>1. The User enters the analytics portal</li> <li>2. User goes into analytics and uses the different types of analytics</li> </ol>
<b>SubFlows:</b>
S-1: Analytical login <ol style="list-style-type: none"> <li>1. The User enters their information to log in</li> <li>2. The user then goes to the analytics section to view their analytics</li> </ol>
<b>Alternate/Exceptional Flows:</b>
None

#### 40: Exporting of Questionnaire Form

<b>Use Case Name:</b> Exporting of Questionnaire Form	<b>ID:</b> 40	<b>Importance Level:</b> Low
<b>Primary Actor:</b> Owner		<b>Use Case Type:</b> Overview, Real

**Stakeholders and Interests:**

- **Owner:** Wants to be able to view the questionnaire in a different format such as excel
- **Administrator:** Wants to be able to take out outliers or fake questionnaire answers

**Brief Description:** This use case describes how the owner or administrator would be able to export the questionnaire form to excel to be able to modify it and change the data.

**Trigger:** Clicking on the 'Export' Button

**Type:** Internal

**Relationships:**

*Association:* Owner

*Include:*

*Extend:*

*Generalization:* Analytics

**Normal Flow of Events:**

1. The user enters into the questionnaire form and enters their information to log in
2. User goes into the admin portion of the questionnaire and selects export

**SubFlows:**

S-1: Analytical login

1. The User enters their information to log in
2. The user then goes to the analytics section to view their analytics

**Alternate/Exceptional Flows:**

Enters in through an excel sheet or google sheet to directly access their data without needing to go through the website

#### **41: Viewing Helped Youth Counter**

<b>Use Case Name:</b> Viewing Helped Youth Counter	<b>ID:</b> 41	<b>Importance Level:</b> Low
<b>Primary Actor:</b> User		<b>Use Case Type:</b> Real
<b>Stakeholders and Interests:</b>		
<ul style="list-style-type: none"><li>· <b>Owner:</b> Wants to be able to show users how many people have been helped</li><li>· <b>User:</b> Wants to be able to see how many Youth have been helped</li></ul>		
<b>Brief Description:</b> This use case describes how the owner or administrator would be able to export the questionnaire form to excel to be able to modify it and change the data.		
<b>Trigger:</b> Entering the page and seeing the counter		
<b>Type:</b> Internal		
<b>Relationships:</b>		
<i>Association:</i> User		
<i>Include:</i>		
<i>Extend:</i>		
<i>Generalization:</i> Analytics		
<b>Normal Flow of Events:</b>		
<ol style="list-style-type: none"><li>1. The user enters the site</li><li>2. User scrolls down and sees the counter ticking up</li></ol>		

**SubFlows:**

None

**Alternate/Exceptional Flows:**

None

**Use Case 42: Formatting Content for All Screens**

<b>Use Case Name:</b> Formatting Content for All Screens	<b>ID:</b> 42	<b>Importance Level:</b> High
<b>Primary Actor:</b> User		<b>Use Case Type:</b> Real
<b>Stakeholders and Interests:</b>		
<ul style="list-style-type: none"><li>· <b>Owner:</b> Wants to be able to view the content on all screen types and sizes</li><li>· <b>User:</b> Wants to be able to view the content on their phone tv or laptop</li></ul>		
<b>Brief Description:</b> This use case describes that anybody viewing the site would like to be able to view the site on a number of different screen sizes		
<b>Trigger:</b> Entering the website on a non standard screen size		
<b>Type:</b> External		
<b>Relationships:</b>		
<i>Association:</i> Owner		
<i>Include:</i>		
<i>Extend:</i>		
<i>Generalization:</i> Formatting		

**Normal Flow of Events:**

1. The user enters the site on a non standard screen size
2. The site automatically adjusts to fit the screen size used

**SubFlows:**

None

**Alternate/Exceptional Flows:**

The screen size isn't supported and the site doesn't adjust to fit

**Use Case 43: Creating Heading and Footer Uniformity**

<b>Use Case Name:</b> Creating Header and Footer uniformity	<b>ID:</b> 43	<b>Importance Level:</b> Low
<b>Primary Actor:</b> User		<b>Use Case Type:</b> Overview, Real
<b>Stakeholders and Interests:</b>		
<ul style="list-style-type: none"><li>· <b>Owner:</b> Wants the Website to be uniform and consistent with the contacts and top bar to be easy to navigate</li><li>· <b>User:</b> Wants for the website to be easy to navigate</li></ul>		
<b>Brief Description:</b> This use case describes how the user would want all the headers and footers to be the same across pages		
<b>Trigger:</b> User Analytics document and is presented with different formats of analytics		
<b>Type:</b> Internal		

**Relationships:**

*Association:* Owner

*Include:*

*Extend:*

*Generalization:* Formatting

**Normal Flow of Events:**

1. User opens the website
2. User Views the header and the footer

**SubFlows:**

None

**Alternate/Exceptional Flows:**

None

**Use Case 44: Viewing the Data Guide**

<b>Use Case Name:</b> Viewing the Data Guide	<b>ID:</b> 44	<b>Importance Level:</b> Low
<b>Primary Actor:</b> Owner		<b>Use Case Type:</b> Overview, Real
<b>Stakeholders and Interests:</b>		
· <b>Owner:</b> Wants to view the data guide to know what metrics and stats may mean		
<b>Brief Description:</b> The data guide would give insight into how to interpret and use data that is generated by the site and the payment system		

**Trigger:** None

**Type:** Internal

**Relationships:**

*Association:* Owner

*Include:*

*Extend:*

*Generalization:* Guide

**Normal Flow of Events:**

1. The owner enters the Guide section
2. The owner or admin can then view the data guide

**SubFlows:**

S-1: Editing Guide

1. The user is at the editing guide
2. The user then goes to the data guide

**Alternate/Exceptional Flows:**

None

**Use Case 45: Viewing the Edits Guide**

<b>Use Case Name:</b> Viewing the Edits Guide	<b>ID:</b> 45	<b>Importance Level:</b> Low
<b>Primary Actor:</b> Owner	<b>Use Case Type:</b> Real	

**Stakeholders and Interests:**

- **Owner:** Wants to be able to edit the site with simple changes like text and images
- **Administrator:** wants to be able to fix small changes or issues with the site

**Brief Description:** This use case describes how the owner would be able to access the edits guide

**Trigger:** Opening the document

**Type:** Internal

**Relationships:**

*Association:* Owner

*Include:*

*Extend:*

*Generalization:* Guide

**Normal Flow of Events:**

1. The User enters the Guide section
2. User then looks at the editing guide

**SubFlows:**

S-1: Data Guide

1. The Is at the data guide
2. The user then goes to the editing guide

**Alternate/Exceptional Flows:**

None

### Use Case45: Viewing Edits Guide

<b>Use Case Name:</b> Viewing the TroubleShooting Guide	<b>ID:</b> 46	<b>Importance Level:</b> Low
<b>Primary Actor:</b> Owner		<b>Use Case Type:</b> Real
<b>Stakeholders and Interests:</b>		
<ul style="list-style-type: none"><li>· <b>Owner:</b> Wants to be able to fix possible issues that may arise, with updates, or issues caused over time</li><li>· <b>Administrator:</b> Wants to be able to fix possible issues that may arise, with updates, or issues caused over time</li></ul>		
<b>Brief Description:</b> This use case describes how the owner or administrator would access the guide and use it.		
<b>Trigger:</b> Opening the document		
<b>Type:</b> Internal		
<b>Relationships:</b>  <i>Association:</i> Owner  <i>Include:</i>  <i>Extend:</i>  <i>Generalization:</i> Guide		
<b>Normal Flow of Events:</b> <ol style="list-style-type: none"><li>1. The User enters the Guide section</li><li>2. User then looks at the guide for troubleshooting</li></ol>		

**SubFlows:**

S-1: Data Guide

1. The user is at the data guide
2. The user then goes to the Troubleshooting guide

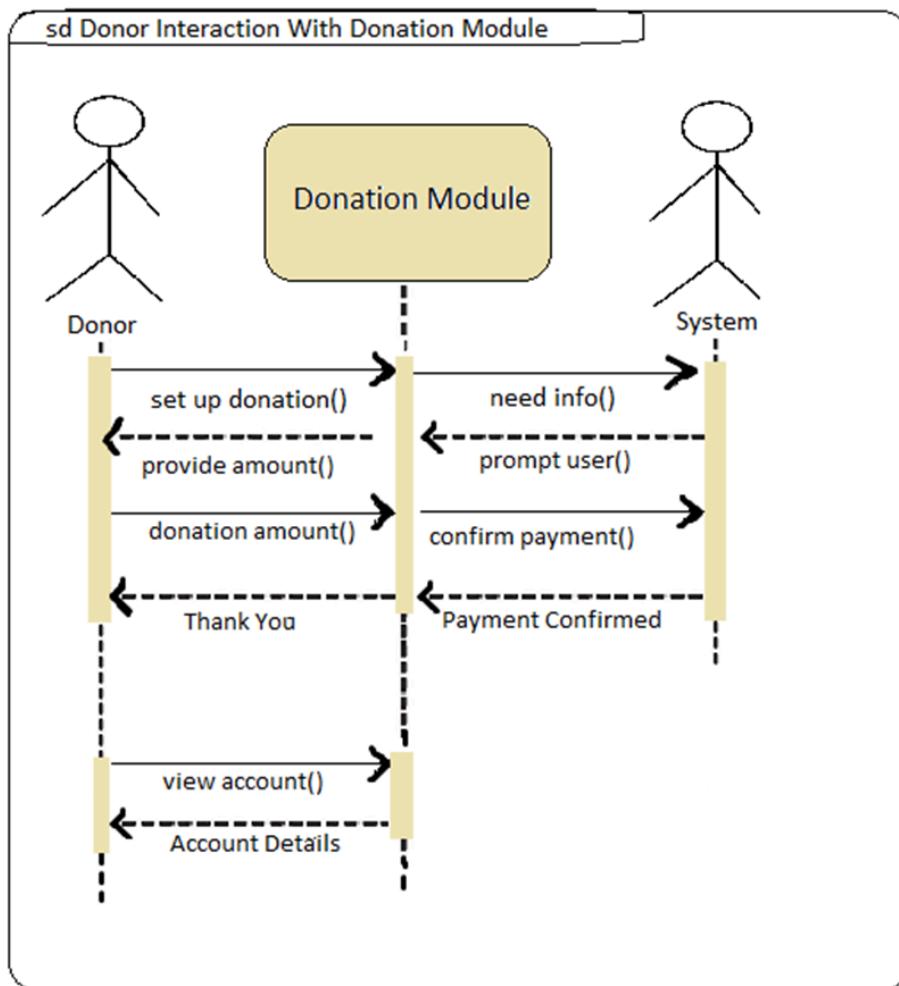
**Alternate/Exceptional Flows:**

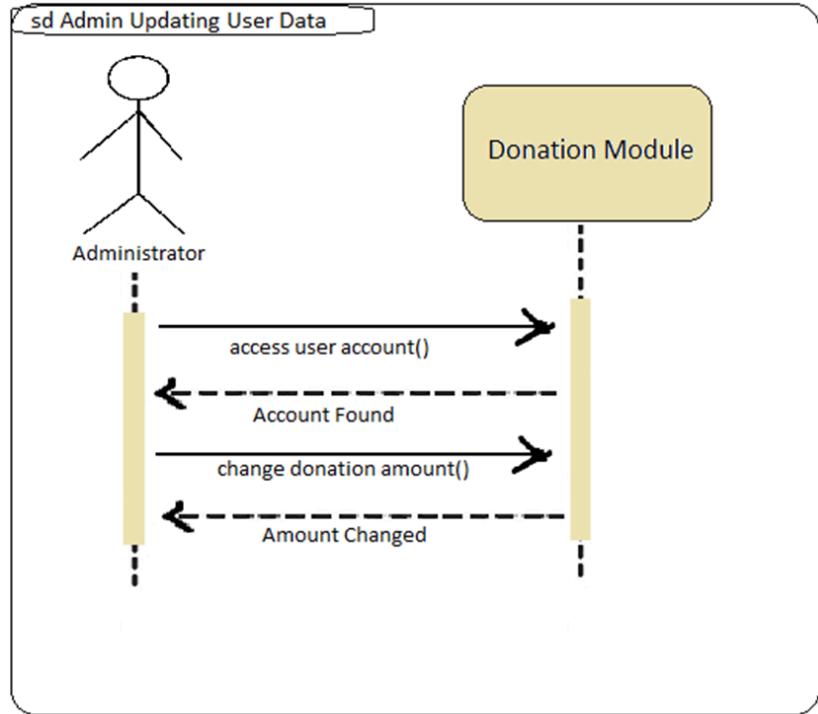
None

## 5. Sequence Diagrams

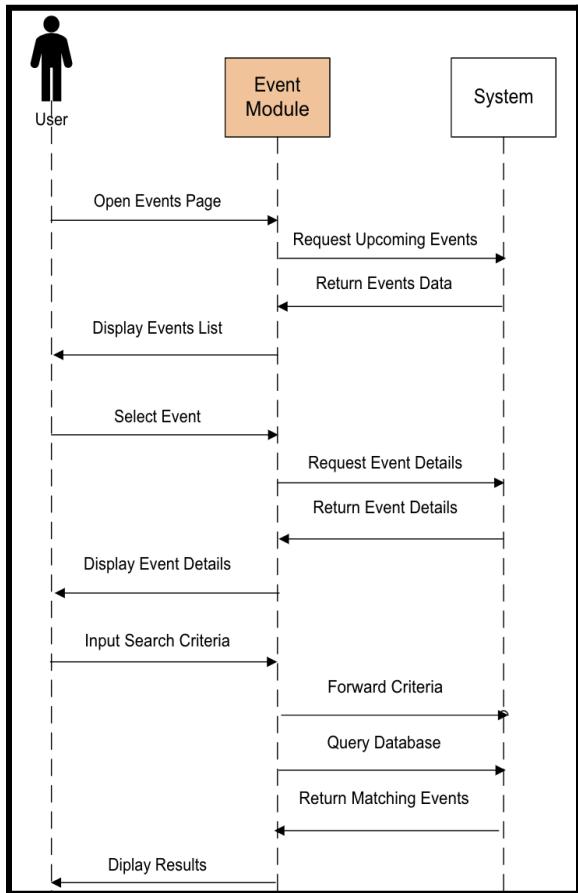
### Use Cases 1-5: Donation Module

#### Sequence Diagrams

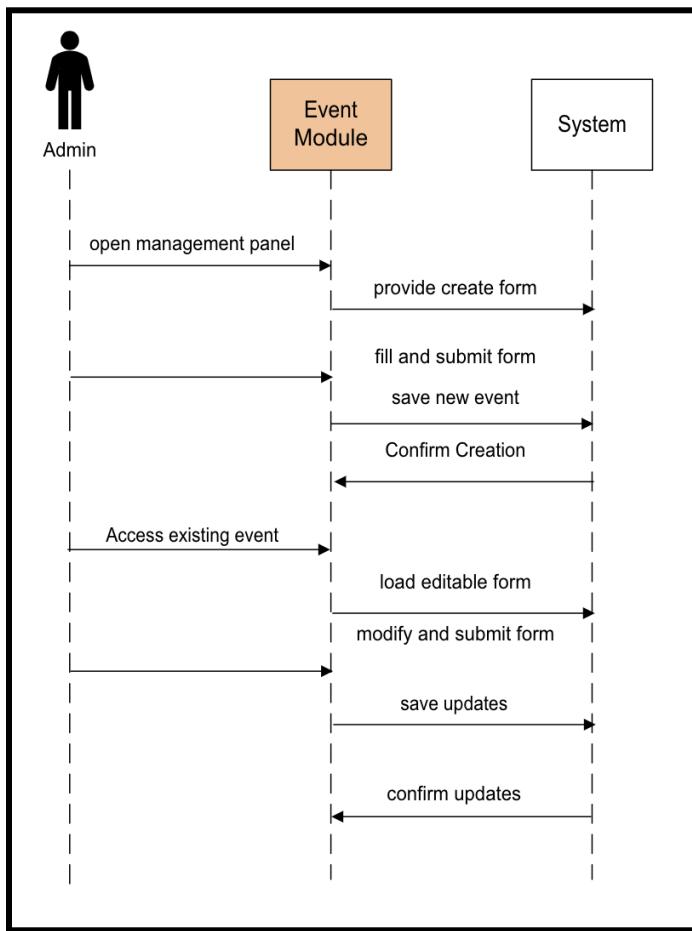




### Use Cases 6, 7, 10: Event Calendar Module:

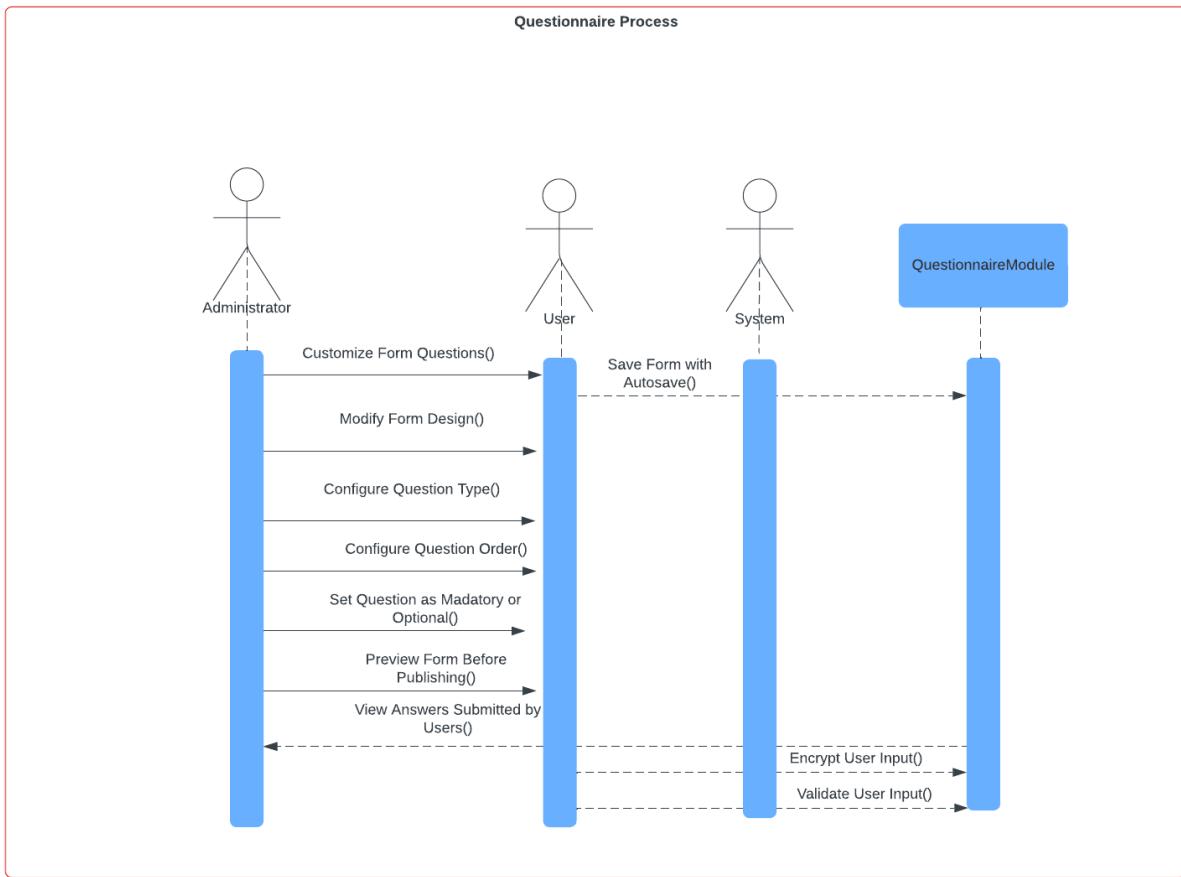


## Use Cases 8, 9: Event Calendar Module



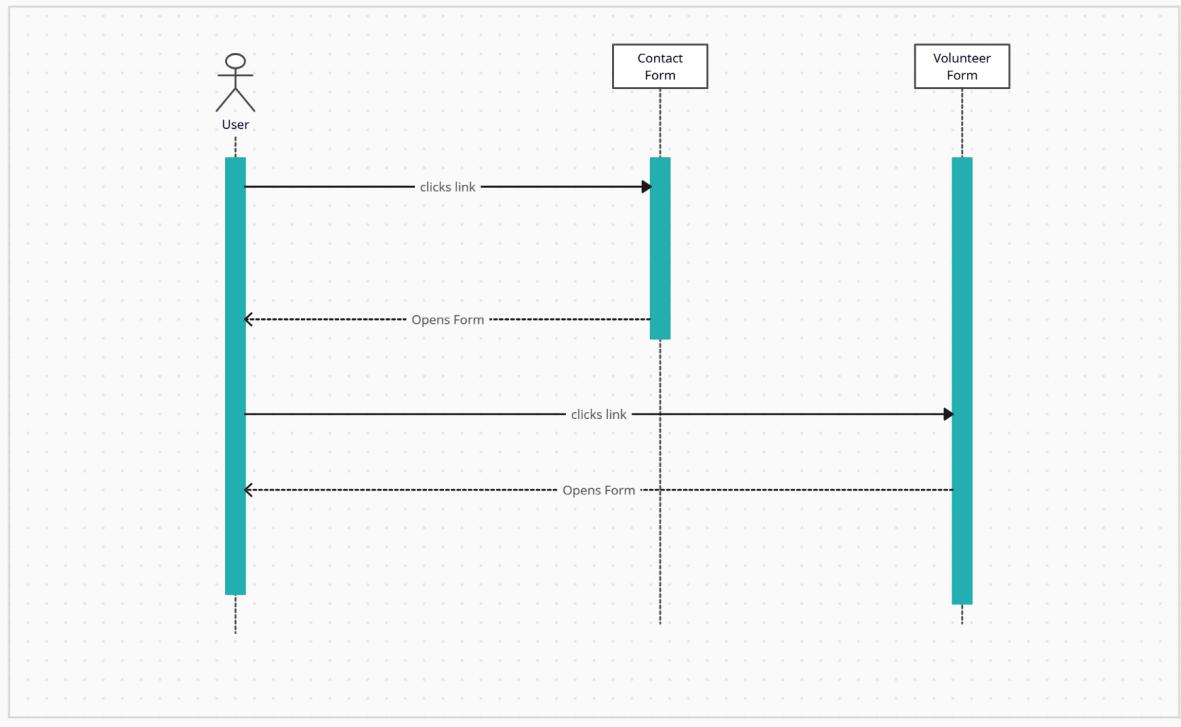
## Use Case 11-20: Questionnaire Module

### Sequence Diagrams

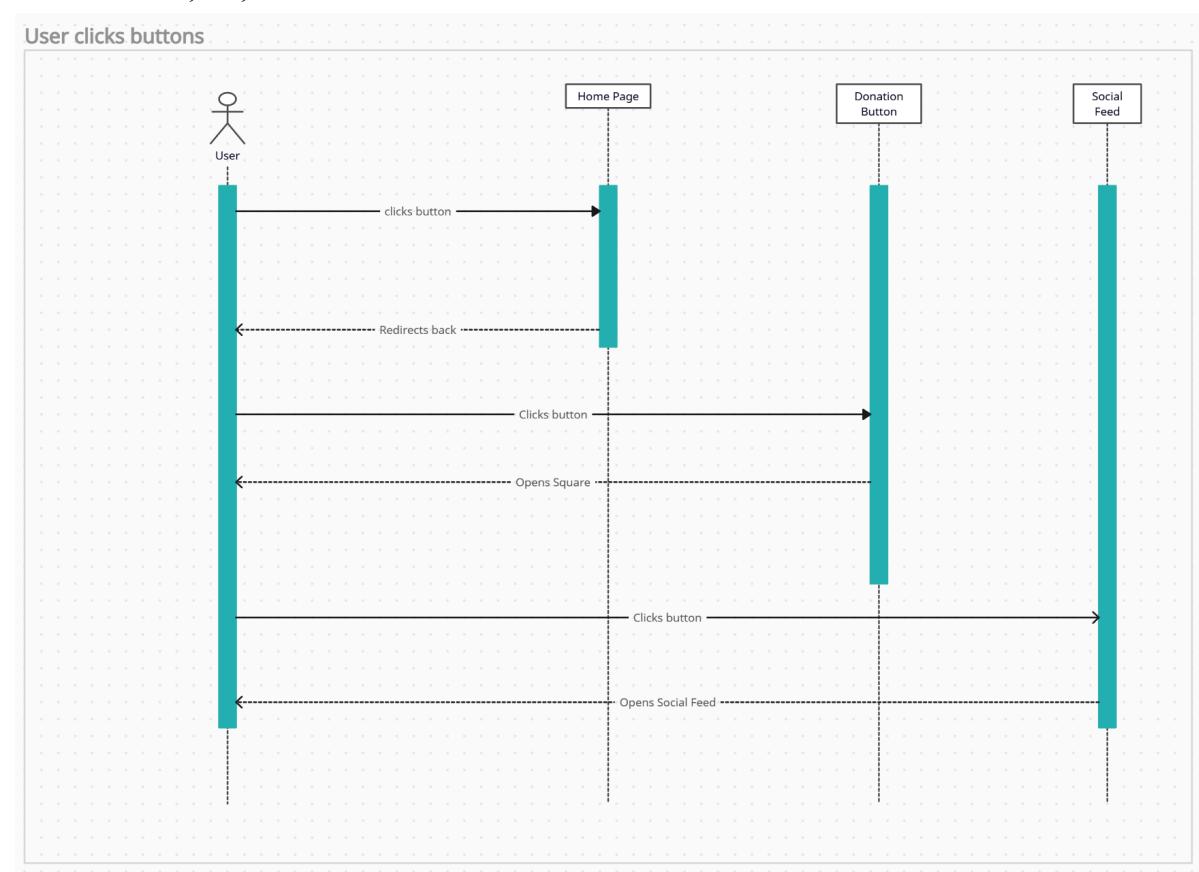


## Use Case 21-26: Forms Interaction

### User clicks forms

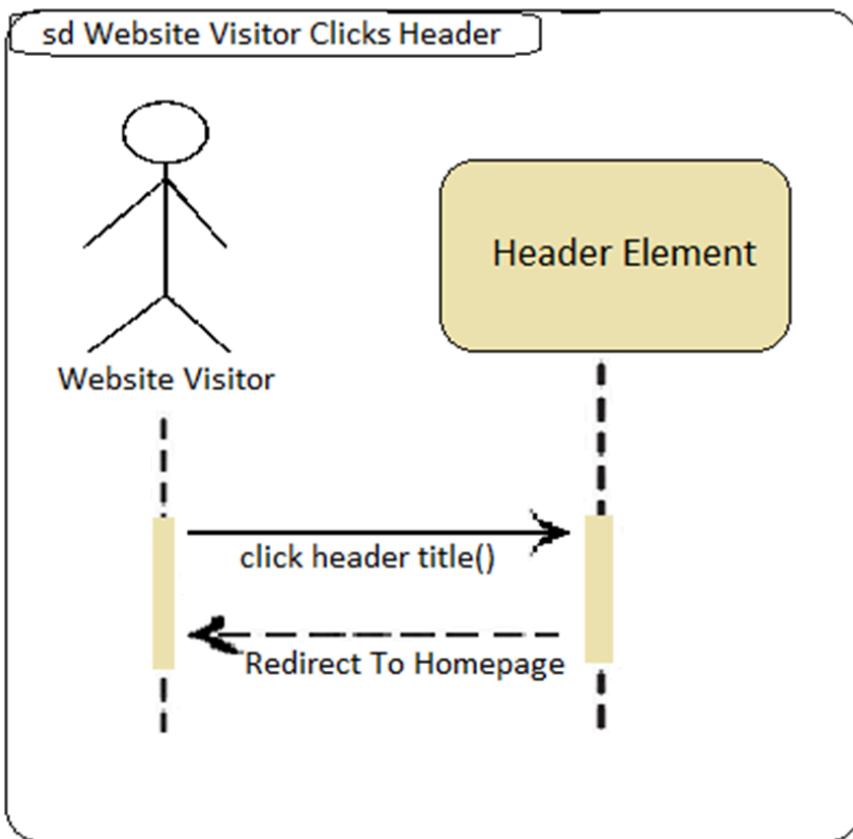


## Use Case 27, 29, 30: Website Headers



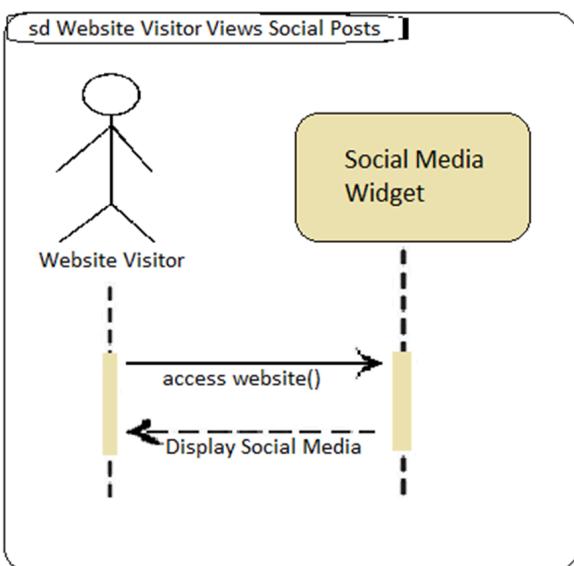
## Use Case 31: Header Element

### Sequence Diagram



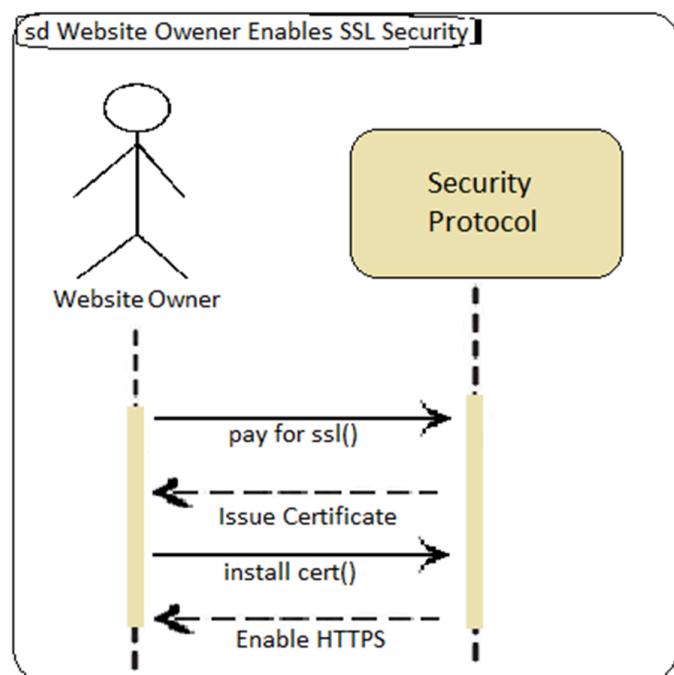
## Use Case 32: Social Media Widget

### Sequence Diagram

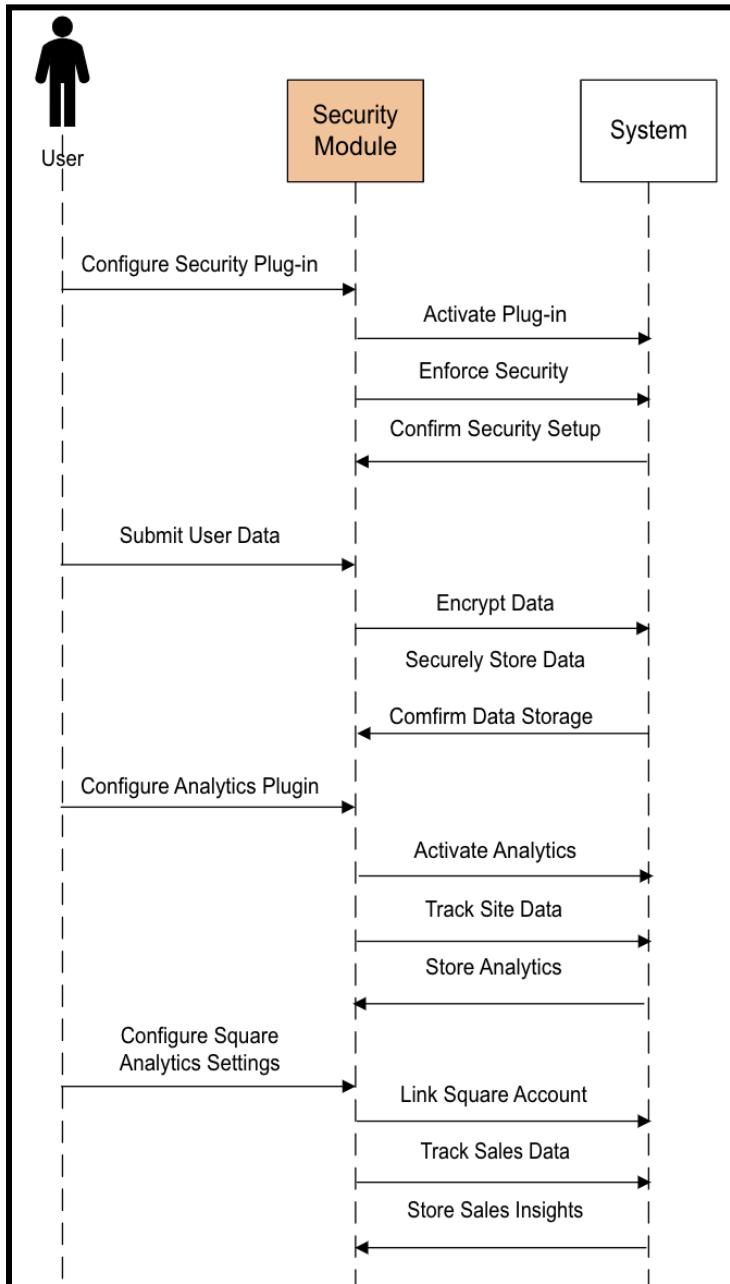


## Use Case 33: Security Protocol

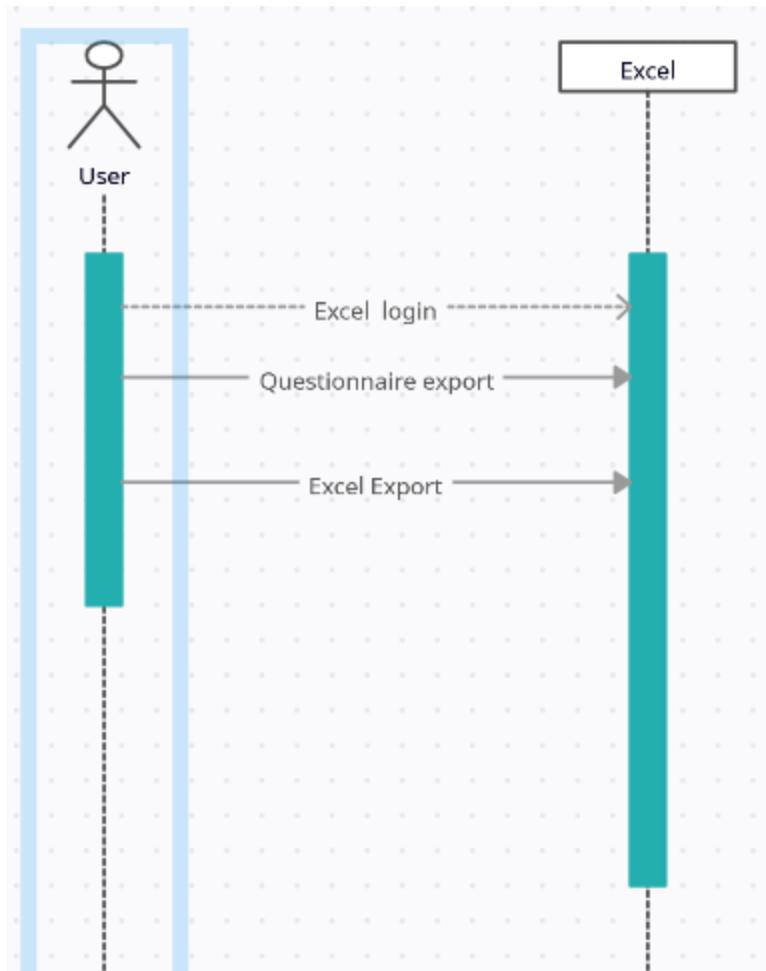
### Sequence Diagram



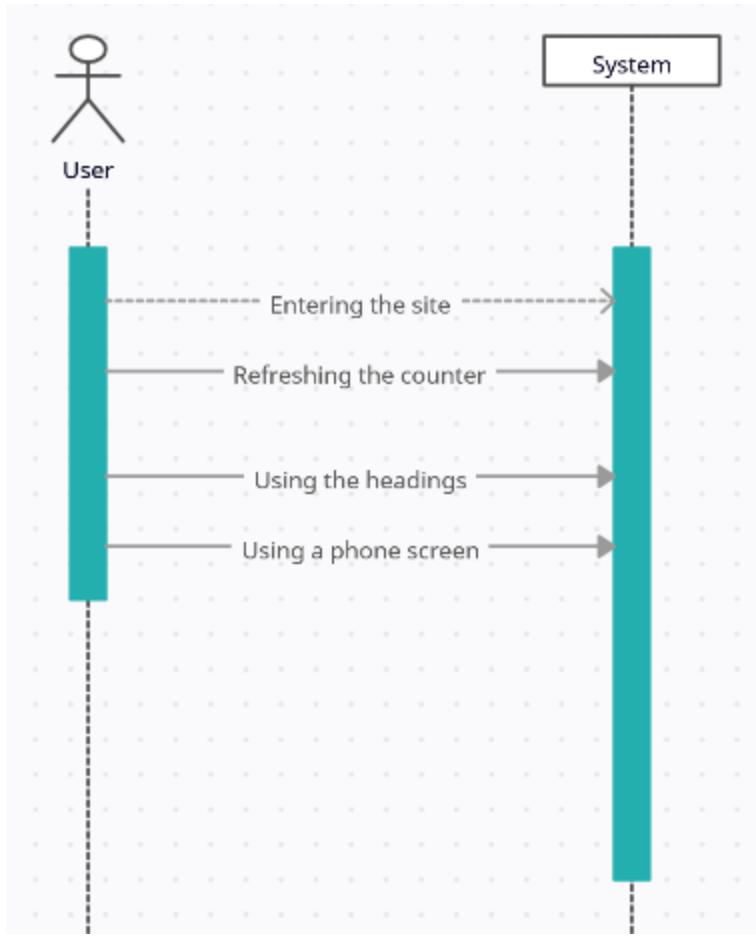
## Use cases 34 - 38: Security Module



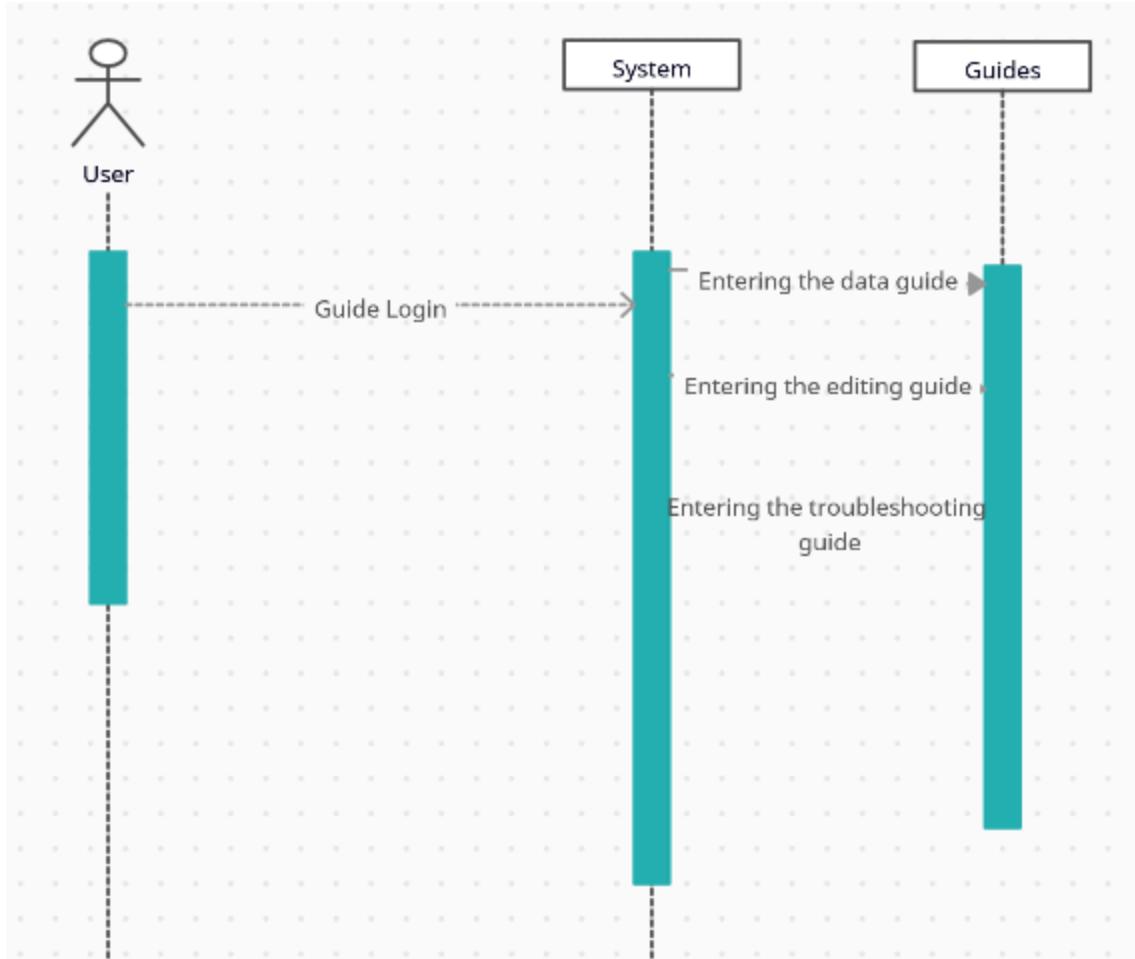
## Use Case 39-40 : Excel Analytics



### Use Case 41-43: System module



### Use Case 44-46: Guide module



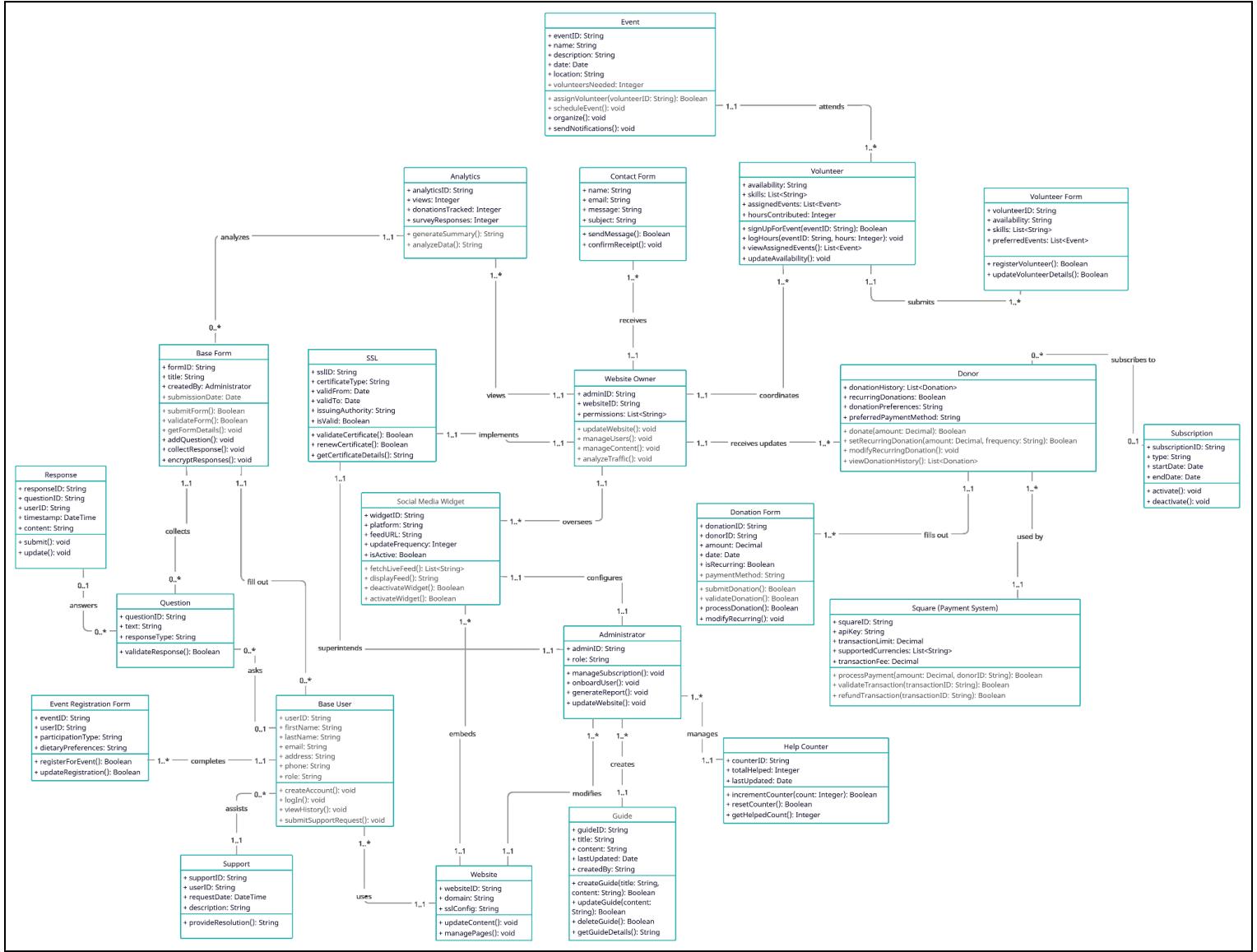
## 6. Class Diagram and Narrative

This class diagram outlines the main components of our system, serving as a detailed blueprint of how processes occur and how the website handles events. Each box, or class, represents an essential part of the system. Each class represents a certain facet of the system, like Donors, Volunteers, Events, Forms, or something like the payment system. Within each class are attributes, which define its characteristics (e.g., a donor's name or a volunteer's availability), and methods, which describe actions it can perform (e.g., updating a volunteer's availability or processing a donation). The lines between these boxes are relationships, showing how these classes interact. For example, A Donor (which is a class) fills out a Donation Form (which is also a class).

Verb-noun analysis is a common practice to help show how different classes work together in an entire system. Nouns from the system description, such as Donor, Event, and Website, were identified as entities or classes. Verbs, such as "fill out," "assist," or "process," were used to define the relationships and actions associated with these classes. Cardinality (e.g., 1..1 or 1..) was added to indicate how many instances of one class relate to another. For example,

A single Donor can fill out many Donation Forms is a One-to-Many (1..\*) relationship, since one user can fill out many forms. This ensures a logical structure for the system, helping administrators or website developers understand key processes throughout the system.

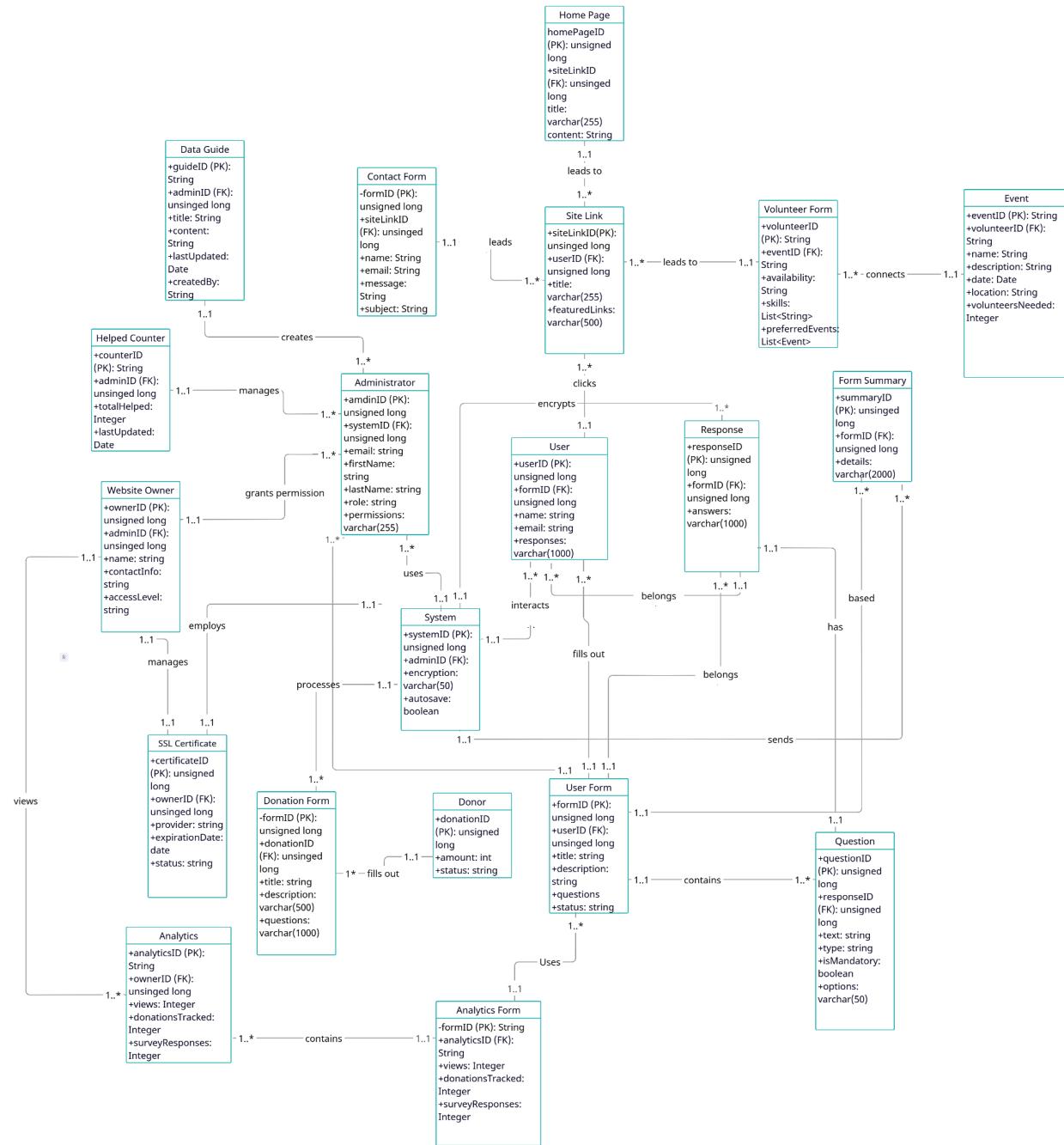
## Class Diagram



## **7. Database Design and Data Definitions**

This Entity-Relationship-Diagram (ERD) is based on our proposed system. It includes many entities, each with attributes and relationships. Users interact with the website, and those interactions create desired responses from the system. Administrators manage data, permissions, and encryption via the system database. Volunteer and Donation info are tracked and analytics are created based on user activity. The structure allows for data management and analytics tracking with room for more functionality and growth.

## Database Diagram



## 8. Database Definitions

## Data guide

Attribute	Definition	Type	Size	Key
Guide Id	Primary key for entry	int	4 bytes	primary
Admin Id	Foreign key for admins	int	4 bytes	Foreign
Title	The title of the entry	string	255 bytes	-
Last updated date	The date updated	date	3 bytes	-
Createdby	Who it was created by	string	255 bytes	-

## Contact Form

Attribute	Definition	Type	Size	Key
FormId	Primary key of form	int	4 bytes	primary
Site link id	Foreign key for link	int	4 bytes	foreign
Name	Name of the contactee	string	255 bytes	-
Email	Email of contactee	string	255 bytes	-
Message	Message being sent	string	255 bytes	-
Subject	Message subject	string	255 bytes	-

## Home Page

Attribute	Definition	Type	Size	Key
Home page id	Home page id num	int	4 bytes	primary
Site link id	Foreign key for link	int	4 bytes	foreign
Title	Page title	string	255 bytes	-

## Site link

Attribute	Definition	Type	Size	Key
SiteLinkId	The site id	int	4 bytes	primary
UserId	Userid num	int	4 bytes	Foreign
title	Title for entry	string	255 bytes	-
Featured links	Links to be displayed	string	255 bytes	-

## Volunteer Form

Attribute	Definition	Type	Size	Key
VolunteerId	The id of the volunteer	int	4 bytes	primary
EventId	The event id	int	4 bytes	Forigen
Availability	When they are available	date	3 bytes	-
Skills	Their skills	string	255 bytes	-
PreferredEvent	Their preferred	string	255 bytes	-

s	events			
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## Event

Attribute	Definition	Type	Size	Key
EventId	The event id	int	4 bytes	primary
VolunteerId	The id of the volunteer	int	4 bytes	Foreign
Description	Event Desc	string	255 bytes	-
Date	Event Date	date	3 bytes	-
VolenteersNeed ed	Number of volunteers needed	int	4 bytes	-

## Helped Counter

Attribute	Definition	Type	Size	Key
CounterId	Id number for the counter	int	4 bytes	primary
AdminId	Admin key	int	4 bytes	Foreign
TotalHelped	Total Number Of people helped	int	4 bytes	-
LastUpdated	When the counter was last updated	date	3 bytes	-

## Administrator

Attribute	Definition	Type	Size	Key
AdminId	Admin key	int	4 bytes	primary
StystemId	The system id	int	4 bytes	Foreign
Email	Admin email	string	255 bytes	-
FirstName	Admin first	string	255 bytes	-

	<b>name</b>			
<b>LastName</b>	<b>Admin last name</b>	<b>string</b>	<b>255 bytes</b>	-
<b>Role</b>	<b>Admins role</b>	<b>string</b>	<b>255 bytes</b>	-
<b>Permissions</b>	<b>Admin specific permissions</b>	<b>float</b>	<b>4 bytes</b>	-

## User

Attribute	Definition	Type	Size	Key
<b>UserId</b>	<b>Userid num</b>	<b>int</b>	<b>4 bytes</b>	<b>primary</b>
<b>FormId</b>	<b>Primary key of form</b>	<b>int</b>	<b>4 bytes</b>	<b>Foreign</b>
<b>Name</b>	<b>User name</b>	<b>string</b>	<b>255 bytes</b>	-
<b>Email</b>	<b>User email</b>	<b>string</b>	<b>255 bytes</b>	-
<b>Responses</b>	<b>User response</b>	<b>string</b>	<b>255 bytes</b>	-

## Response

Attribute	Definition	Type	Size	Key
<b>ResponseId</b>	<b>The response id</b>	<b>int</b>	<b>4 bytes</b>	<b>primary</b>
<b>UserId</b>	<b>The user id</b>	<b>int</b>	<b>4 bytes</b>	<b>Foreign key</b>
<b>FormId</b>	<b>The forms id</b>	<b>int</b>	<b>4 bytes</b>	<b>Foreign key</b>
<b>Answer</b>	<b>The user answer</b>	<b>string</b>	<b>255 bytes</b>	-

## Summary

Attribute	Definition	Type	Size	Key
<b>SummaryId</b>	<b>The summary id</b>	<b>int</b>	<b>4 bytes</b>	<b>primary</b>
<b>FormId</b>	<b>The forms Id</b>	<b>int</b>	<b>4 bytes</b>	<b>Foreign</b>

<b>Details</b>	The forms details	string	255 bytes	-
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## Website Owner

Attribute	Definition	Type	Size	Key
<b>OwnerId</b>	The owners id	int	4 bytes	primary
<b>AdminId</b>	Admin key	int	4 bytes	Foreign
<b>Name</b>	Owners name	string	255 bytes	-
<b>ContactInfo</b>	Owner Contact Info	string	255 bytes	-
<b>AccessLevel</b>	Owners Access Level	float	4 bytes	-

## System

Attribute	Definition	Type	Size	Key
<b>StystemId</b>	The data baseid	int	4 bytes	primary
<b>AdminId</b>	Admin key	int	4 bytes	Foreign
<b>Encryption</b>	The encryption	string	255 bytes	-
<b>AutoSave</b>	The ability to save	string	255 bytes	-

## SSL Certificate

Attribute	Definition	Type	Size	Key
<b>CertificateId</b>	SSL Certificate Id	int	4 bytes	primary
<b>OwnerId</b>	The owners id	int	4 bytes	Foreign
<b>Provider</b>	Who provides the certificate	string	255 bytes	-
<b>ExpirationDate</b>	When the certificate expires	date	3 bytes	-

Status	Its status	string	255 bytes	-
--------	------------	--------	-----------	---

### Donation Form

Attribute	Definition	Type	Size	Key
FormId	The forms id	int	4 bytes	foreign
Donation Id	The donation forms id	int	4 bytes	primary
Title	The title	string	255 bytes	-
Description	The description	string	255 bytes	-
Questions	Any questions	string	255 bytes	-

### User Form

Attribute	Definition	Type	Size	Key
FormId	The form id	int	4 bytes	Primary
Title	The title of the form	string	255 bytes	-
Description	Form description	string	255 bytes	-
Questions	Form questions	string	255 bytes	-
Status	Form status	string	255 bytes	-

### Analytics

Attribute	Definition	Type	Size	Key
AnalyticsId	Analytics id	int	4 bytes	primary
OwnerId	The owners id	int	4 bytes	Foreign
Views	The different forms of views	string	255 bytes	-
DonationsTracked	Donation Data	string	255 bytes	-

<b>SurveryResponses</b>	<b>Survey Data</b>	<b>string</b>	<b>255 bytes</b>	<b>-</b>
-------------------------	--------------------	---------------	------------------	----------

### Question

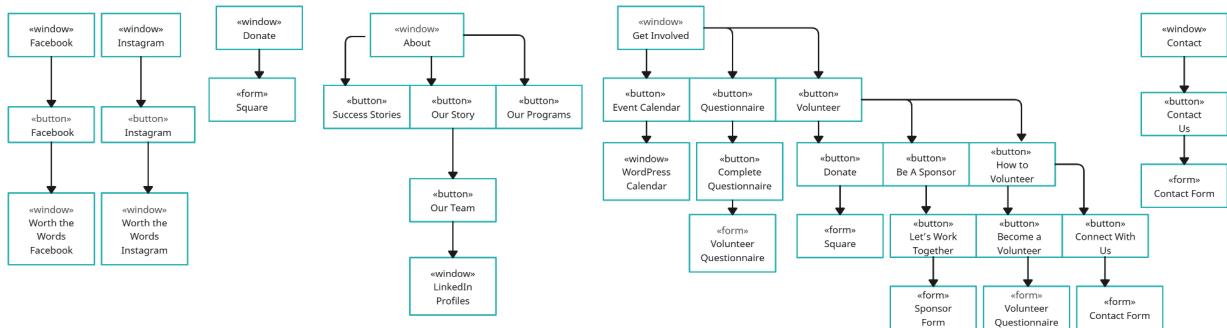
<b>Attribute</b>	<b>Definition</b>	<b>Type</b>	<b>Size</b>	<b>Key</b>
<b>QuestionId</b>	<b>The questions id</b>	<b>int</b>	<b>4 bytes</b>	<b>primary</b>
<b>ResponceId</b>	<b>The responses Id num</b>	<b>int</b>	<b>4 bytes</b>	<b>forgien</b>
<b>Text</b>	<b>The displayed text</b>	<b>string</b>	<b>255 bytes</b>	<b>-</b>
<b>Type</b>	<b>Question type</b>	<b>string</b>	<b>255 bytes</b>	<b>-</b>
<b>IsMandatory</b>	<b>Wether the question is mandatory</b>	<b>Boolean</b>		<b>-</b>
<b>Options</b>	<b>What the answer options are</b>	<b>string</b>	<b>255 bytes</b>	<b>-</b>

### Donor

<b>Attribute</b>	<b>Definition</b>	<b>Type</b>	<b>Size</b>	<b>Key</b>
<b>DonationId</b>	<b>The donations id</b>	<b>int</b>	<b>4 bytes</b>	<b>Primary</b>
<b>Amount</b>	<b>How much donated</b>	<b>float</b>	<b>4 bytes</b>	<b>-</b>
<b>Status</b>	<b>Donation status</b>	<b>string</b>	<b>255 bytes</b>	<b>-</b>

## **9. User Interface Navigation Diagram, Screen Layouts, and Narrative**

The User Interface Diagram outlines the navigation system for our website's client-based view. It illustrates how users interact with the site, detailing key components and pathways. This diagram highlights user actions and the corresponding responses from the website, ensuring a clear understanding of the user journey and enhancing overall usability.



## 9.1 Screen Layouts

### 9.1A Data Capture Forms

#### Become A Sponsor Form

**Become A Sponsor**

racarr07@gmail.com [Switch account](#)

Draft saved

Not shared

\* Indicates required question

---

Name \*

Rachel Carr

---

Email \*

racarr07@louisville.edu

Company/Organization Name (if applicable):

University of Louisville

Preferred Sponsorship Type (e.g., Event Sponsorship, Program Sponsorship, General Donation) \*

Event Sponsorship

How would you like to be recognized? (e.g., Name, Company Logo, Anonymous) \*

Name

Why are you Interested in sponsoring us? \*

For our students interested in education and music.

This capture shows how the system will react when the user clicks on the “Let’s Work Together” link on the Be A Sponsor page of the website. The user is then redirected to a Google Form. The picture shows some of the required fields for the user to fill out to complete a submission. If the form is completed and submitted, the administrator will see the results in Google Forms under the “Responses” section.

## Be a Volunteer Form

# Be a Volunteer

racarr07@gmail.com [Switch account](#)

 Draft saved

 Not shared

\* Indicates required question

Name \*

Rachel Carr

Email \*

racarr07@louisville.edu

**Availability \***

weekends

**Phone number \***

5026402997

**Skills and Interests \***

helping kids and volunteers sign in at events

**Previous Volunteer Experience \***

none

**Preferred Volunteer Roles \***

sign in desk

Why Are Interested in Volunteering with Us? \*

it's a good cause

How You Heard About Us

word of mouth

Do You Consent to a Background Check? \*

Yes

No

Comments or Questions

Your answer

**Submit**

**Clear form**

This capture shows how the system will react when the user clicks on the “Become A Volunteer” link on the How to Volunteer page of the website. The user is then redirected to a Google Form. The picture shows some of the required fields for the user to fill out to complete a submission. If the form is completed and submitted, the administrator will see the results in Google Forms under the “Responses” section.

## Contact Form

racarr07@gmail.com [Switch account](#)

 Not shared

 Draft saved

\* Indicates required question

Name \*

Rachel Carr

Email \*

racarr07@louisville.edu

This capture shows how the system will react when the user clicks on the “Connect With Us” link on the How to Volunteer page of the website. The user is then redirected to a Google Form. The picture shows some of the required fields for the user to fill out to complete a submission. If the form is completed and submitted, the administrator will see the results in Google Forms under the “Responses” section.

## Get Involved Questionnaire Form

### Get Involved with Worth The Words

1. How did you hear about Worth The Words?

Social Media

Friend or Family

Online Search

Event

Other

2. What types of volunteer activities are you interested in? (Select all that apply)

Event Planning

9 of 10 answered

This capture shows how the system will react when the user clicks on the “Complete Questionnaire” link on the Questionnaire page of the website. The user is then redirected to a Survey Monkey Form. The picture shows the first question of the survey as well as the survey progress at the bottom. If the form is completed and submitted, the administrator will see the results on the Survey Monkey homepage on the user dashboard.

## 9.1B Data Presentation Forms

Contact Information

Questions Responses 1 Settings

Why Are Interested in Volunteering with Us?  
1 response

it's a good cause

How You Heard About Us  
1 response

word of mouth

Do You Consent to a Background Check?  
1 response

100% Copy chart

Company/Organization Name (if applicable):  
1 response

University of Louisville

Preferred Sponsorship Type (e.g., Event Sponsorship, Program Sponsorship, General Donation)  
1 response

Event Sponsorship

How would you like to be recognized? (e.g., Name, Company Logo, Anonymous)  
1 response

Name

Why are you Interested in sponsoring us?  
1 response

Questions Responses 1 Settings

1 response

Link to Sheets ⋮

Accepting responses

Summary Question Individual

Name  
1 response

Rachel Carr

Email  
1 response

racarr07@louisville.edu

The screenshot shows the 'Responses' tab of a Google Form. There is 1 response. The 'Accepting responses' switch is turned on. The results are shown in three tabs: 'Summary', 'Question', and 'Individual'. The 'Summary' tab shows a single response under 'Name' with the value 'Rachel Carr'. The 'Email' tab shows a single response with the value 'racarr07@louisville.edu'.

The following entails the administrator's view of submitted forms. The administrator can view the user responses as well data visualizations of yes/no questions. The administrator can choose to view the results by summary, question, or individual. The administrator can export the results to a Google Sheets document.

**Open**

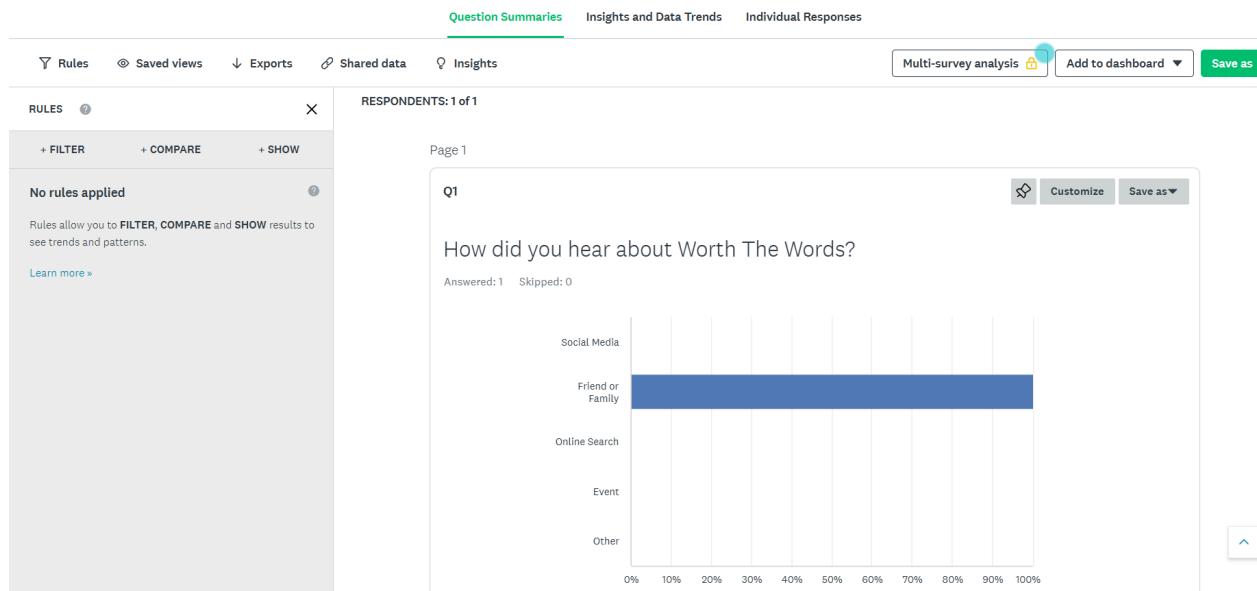
...

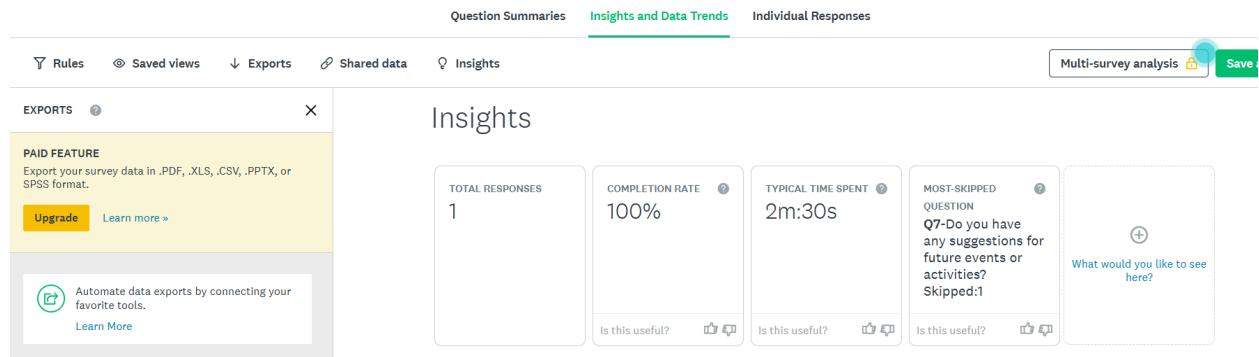
## Get Involved with Worth The Words

📅 Updated: 11/24/2024

📊 1 / 25 responses

Analyze results



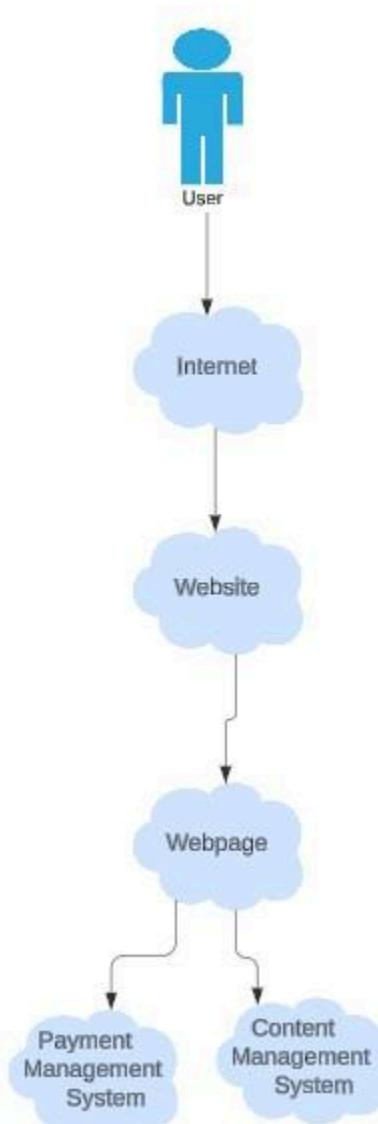


The following images entail the administrators view on Survey Monkey. The administrator receives an email to their personal email connected to their Survey Monkey account when a user has submitted a survey. The administrator then can go to their dashboard on the homepage of Survey Monkey to view the results. After clicking analyze results, they can choose to view the results as summaries, as data visualizations, or by individual responses. The administrator can click the “Present Results” function to create a summary data visualization of the survey results or with a paid subscription can export the results to their preferred document format.

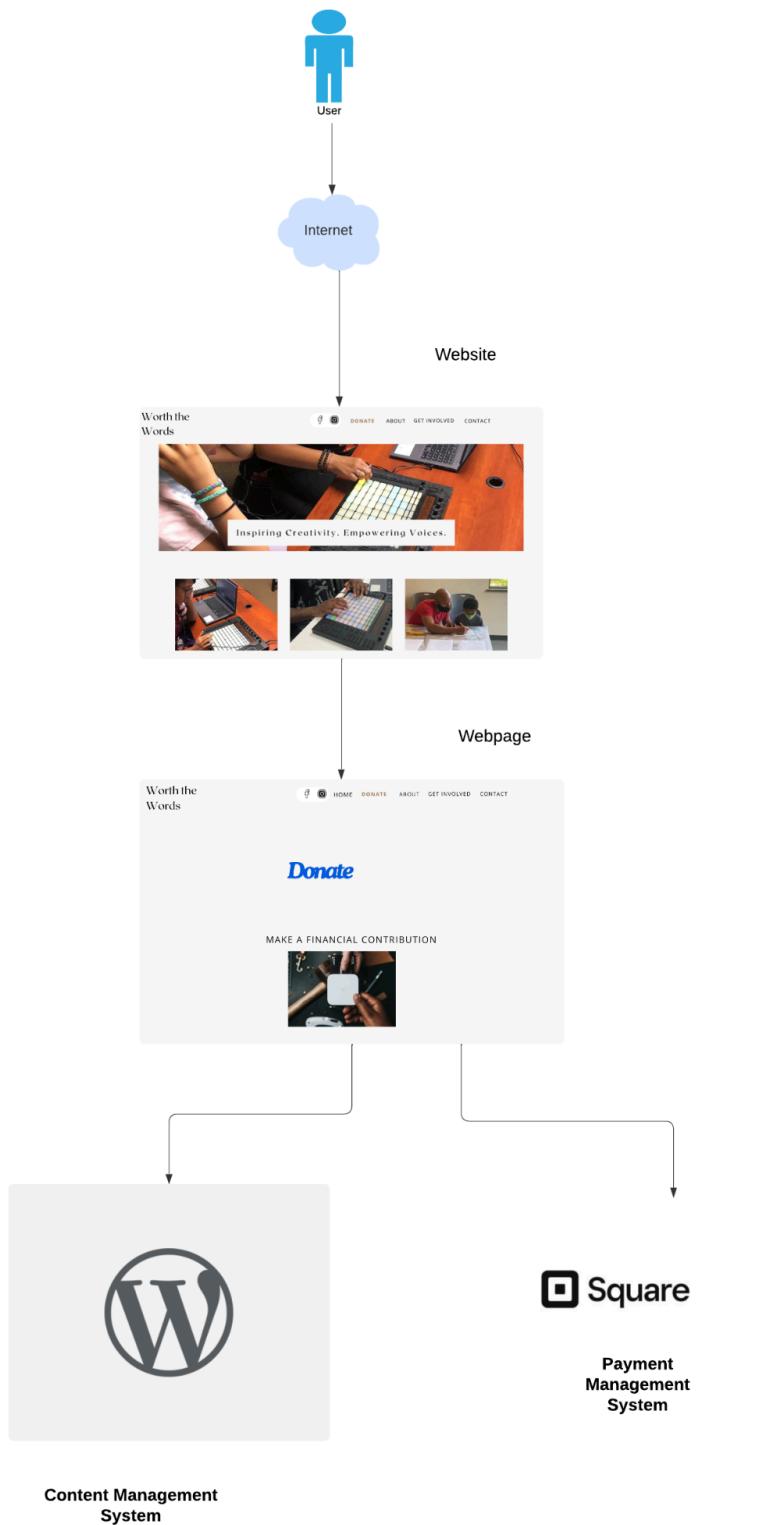
## 10. Physical Architecture Design

With the initial design view, the user goes on to the internet and goes to the Worth the Words home page. From there the user can access content on the home page or navigate through the website through the navigation bar. The user has two main decisions on the web page. The first is, if they go to the Get Involved page they can donate which takes them to PayPal. There are multiple paths on the website that take the user to a contact form that is hosted on the Contact page. For the realistic view, we've decided to change the overall design view of the website by keeping the main content. The home page with a donate feature front and center, the About page, the Get Involved page, and Contact page. We've decided to remove the Services page as that can be incorporated into the Get Involved page and added expanded content to the pages found on the navigation bar. We will continue on with our decision to use Square for the payment system and WordPress for the content management system.

## Initial Design View



## Realistic View



## 11. Design Procedures for Non-Functional Requirements

Non-functional requirements address system performance, security standards, and usability expectations, ensuring reliability, data integrity, and a positive user experience. For each non-functional requirement, create a guide by identifying key features or tools, developing user scenarios, and providing step-by-step instructions with visual aids. Explain data interpretation for analytics, offer best practices for text and image modification, and list common issues with troubleshooting steps. Ensure each guide is reviewed and tested by users, incorporating their feedback for clarity and usability.

## 12. Gantt Chart : I2 - I3

Task ID	Task Name	Start Date	End Date	Duration (Days)	Task Responsibility	Dependencies	Colour Key
ID0200	Vision Document	15/10/2024	16/10/2024	2	James	None	I2
ID0201	Feasibility Analysis	16/10/2024	17/10/2024	2	James	ID0200	I3
ID0202	System Requirements	16/10/2024	18/10/2024	3	Nick	ID0200	
ID0203	List of Use Cases	18/10/2024	19/10/2024	2	Nick	ID0202	
ID0204	Initial Architecture Considerations	18/10/2024	19/10/2024	2	Rachel	None	
ID0205	Risk Analysis	19/10/2024	20/10/2024	2	Simona	ID0203	
ID0206	Trace Matrix	19/10/2024	20/10/2024	2	Simona	ID0203, ID0204	
ID0207	Gantt Chart	15/10/2024	20/10/2024	6	Mason	None	
ID0208	Inception Phase Prototype	19/10/2024	20/10/2024	2	Rachel	None	
ID0300	Vision Document	1/11/2024	10/11/2024	10	Rachel	None	
ID0301	System Requirements Updates	1/11/2024	2/11/2024	2	Nick	None	
ID0302	Trace Matrix	3/11/2024	4/11/2024	2	Simona	ID0301	
ID0303	Use Case Diagram	5/11/2024	6/11/2024	2	Simona	ID0302	
ID0304	Gantt Chart	7/11/2024	9/11/2024	3	Mason	None	
ID0305	Use Case Prototype	8/11/2024	10/11/2024	3	Rachel	None	

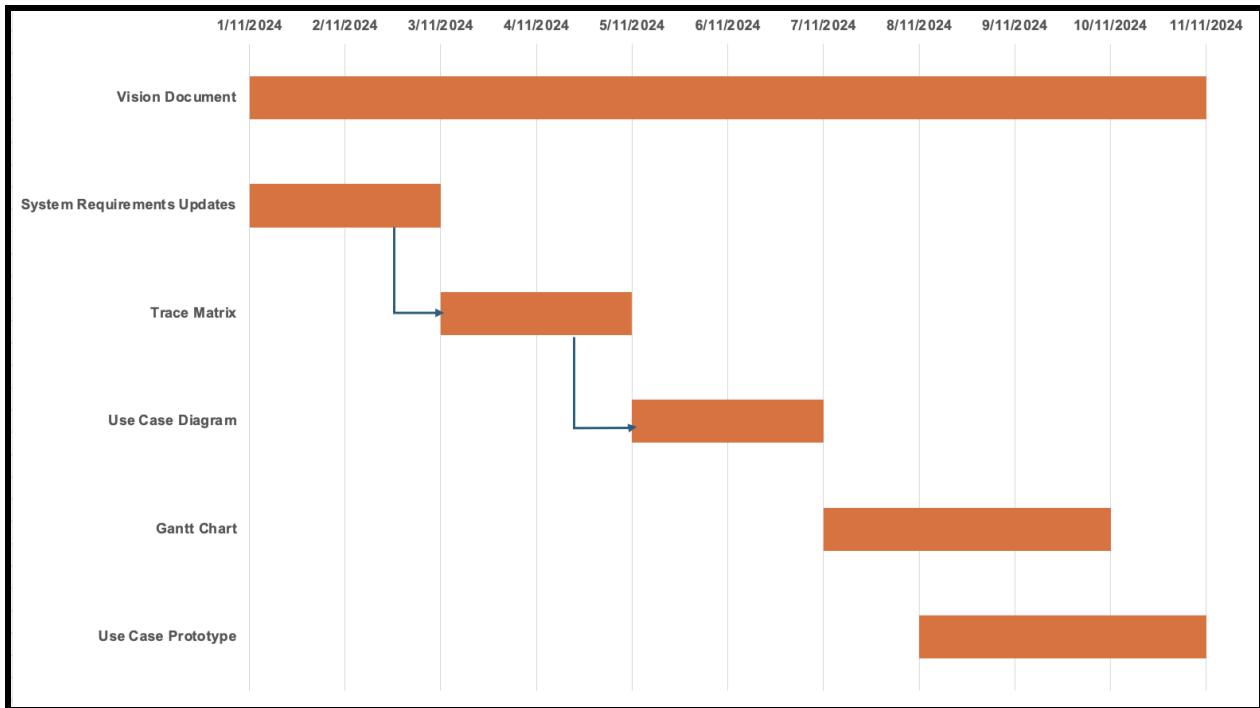
## I3 - I5

ID0300	Vision Document	1/11/2024	10	11/10/2024	Rachel	None
ID0301	System Requirements Updates	1/11/2024	2	11/2/2024	Nick	None
ID0302	Trace Matrix	3/11/2024	2	11/4/2024	Simona	ID0301
ID0303	Use Case Diagram	5/11/2024	2	11/6/2024	Simona	ID0302
ID0304	Gantt Chart	7/11/2024	3	11/9/2024	Mason	None
ID0305	Use Case Prototype	8/11/2024	3	11/10/2024	Rachel	None
ID0401	Class Diagram	15/11/2024	4	18/11/2024	Simona	None
ID0402	Database Diagram	18/11/2024	4	21/11/2024	Nick, James, Rachel	ID0401
ID0403	User Interface Design	19/11/2024	4	22/11/2024	Rachel, James	ID0402, ID0401
ID0404	Gantt Chart	20/11/2024	5	24/11/2024	Mason	None
ID0405	User Interface Prototypes	22/11/2024	3	24/11/2024	Rachel, Nick	ID0402, ID403

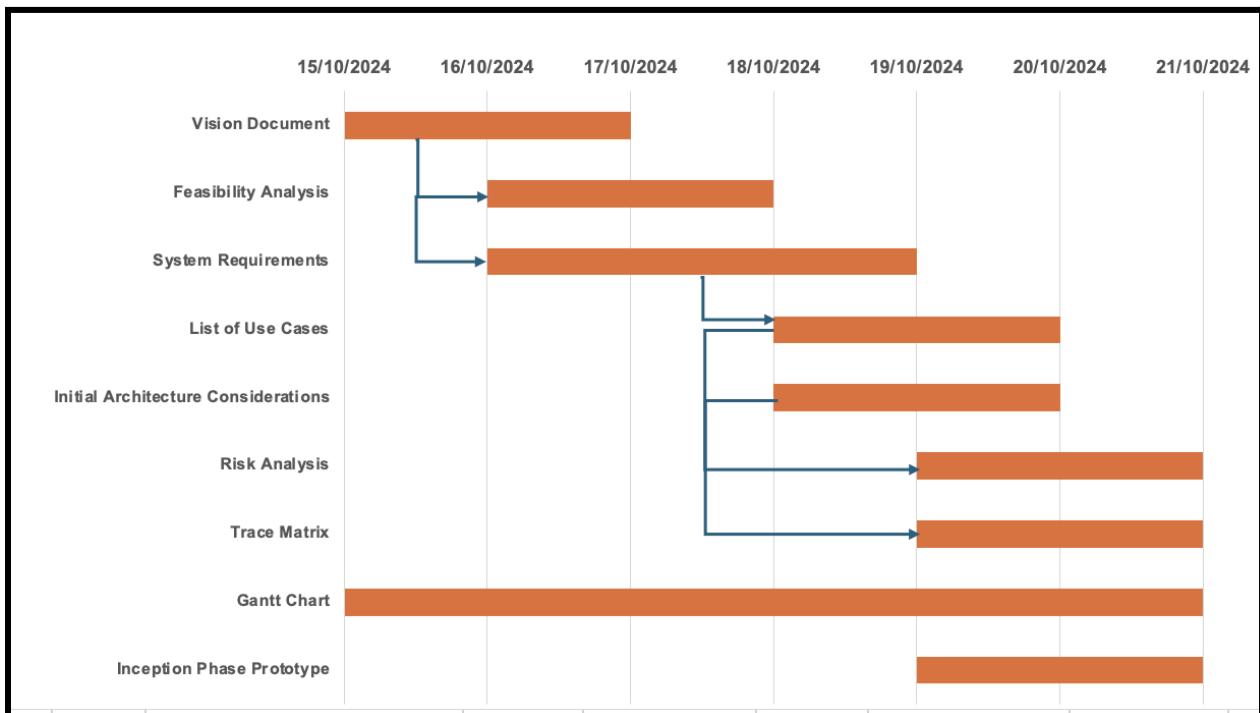
## I5 - elaboration specification

ID0300	Vision Document	1/11/2024	10	11/10/2024	Rachel	None
ID0301	System Requirements Updates	1/11/2024	2	11/2/2024	Nick	None
ID0302	Trace Matrix	3/11/2024	2	11/4/2024	Simona	ID0301
ID0303	Use Case Diagram	5/11/2024	2	11/6/2024	Simona	ID0302
ID0304	Gantt Chart	7/11/2024	3	11/9/2024	Mason	None
ID0305	Use Case Prototype	8/11/2024	3	11/10/2024	Rachel	None
ID0401	Elab Spec Compilation	26/11/2024	14	9/12/2024	Simona, Nick, James	None
ID0402	Gantt Chart	26/11/2024	12	8/12/2024	Mason	None
ID0403	Database Diagram Updates	28/11/2024	10	7/12/2024	Simona, Rachel	None
ID0404	Prototype Updates	1/12/2024	5	6/12/2024	Rachel	None
ID0405	Design Procedures for Non Functional Requirements	2/12/2024	5	7/12/2024	Nick	None
ID0406	Elaboration Phase HTML Prototypes	2/12/2024	5	7/12/2024	James	None

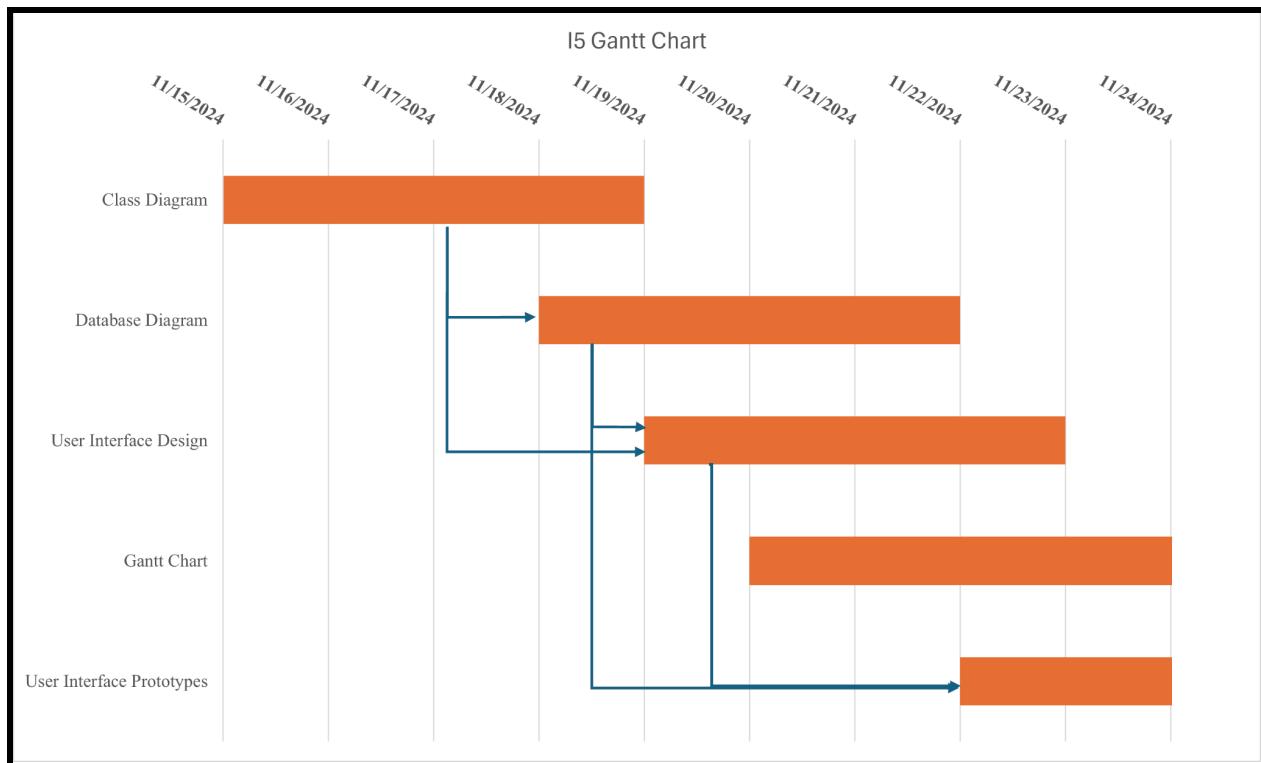
I2



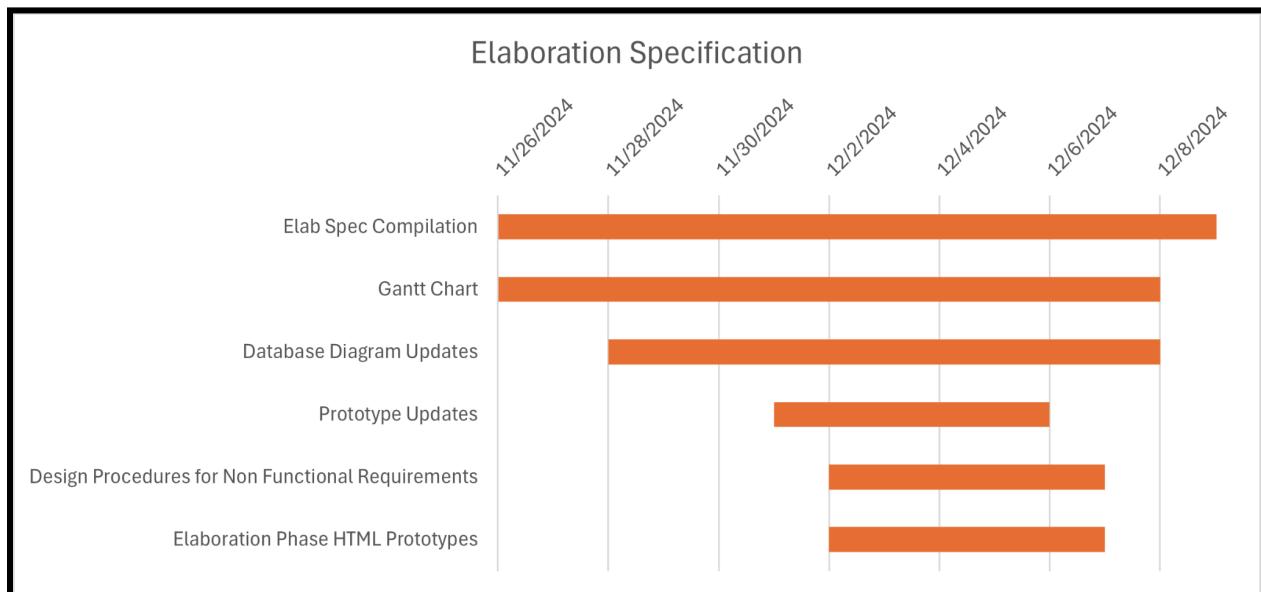
I3



I5

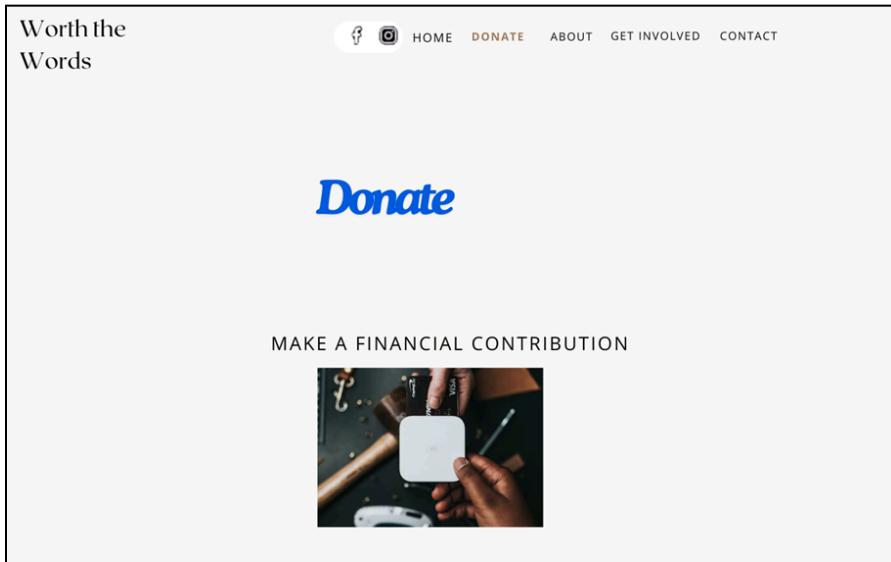


## Elaboration Specification

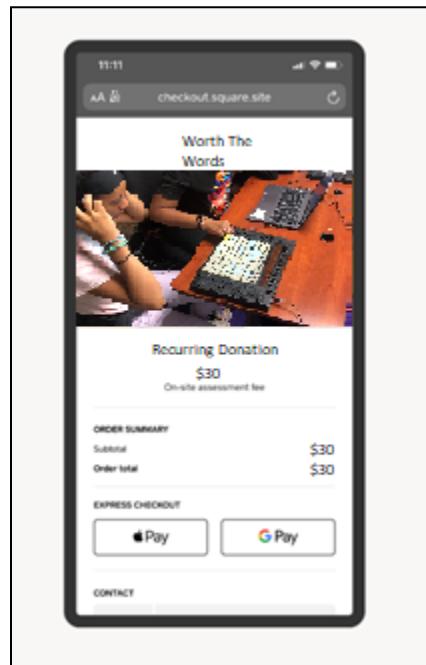


## 13. Prototypes

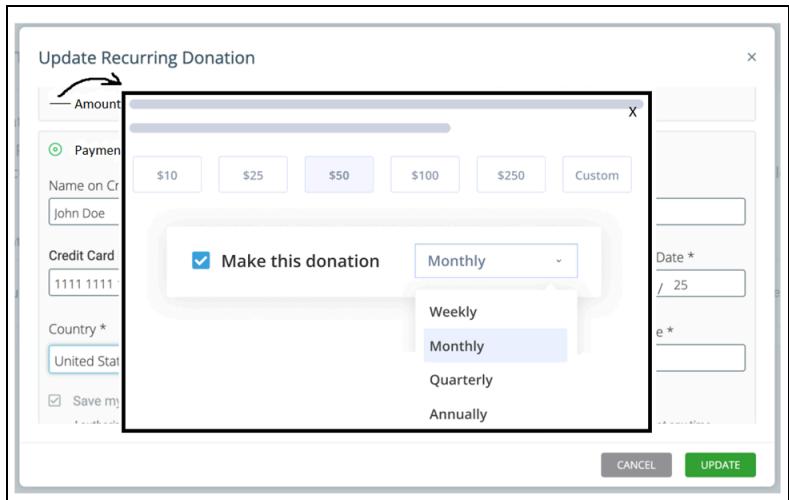
### Use Case 1: Set Up Recurring Monthly Donations



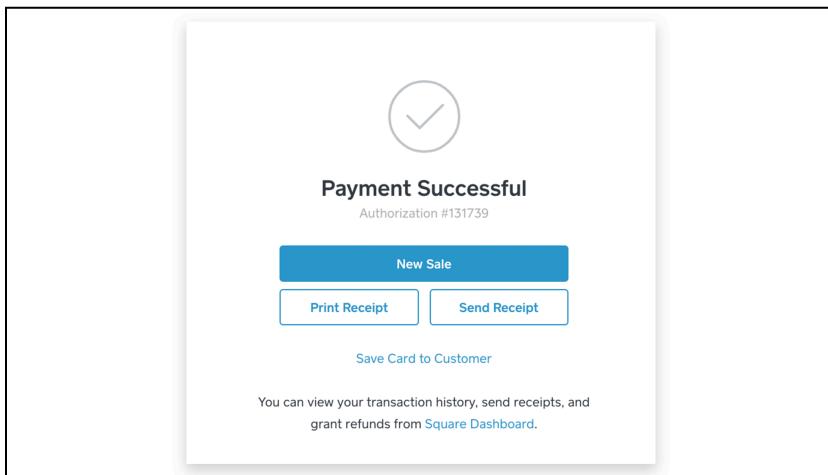
### Use Case 2: Secure Payment Processing



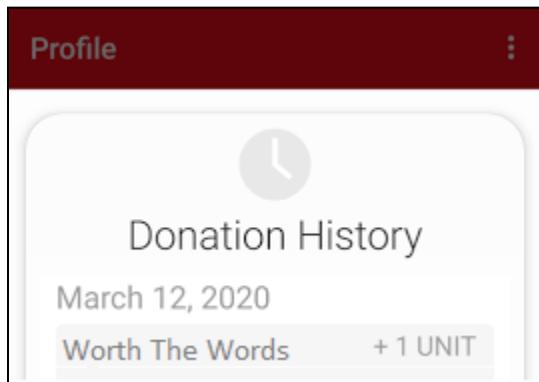
### Use Case 3: Manage Donation Subscriptions



### Use Case 4: Send Payment Confirmations



### Use Case 5: Manage Donation History



## Use Case 6: Display Upcoming Events

# Upcoming Events

Search by Category:  Search by Date:  
dd/mm/yyyy  Search Reset

**New Year's Celebration**  
Date: 2023-01-01  
Category: Holiday

Celebrate the new year with us!

[View Details](#)

**Valentine's Day Dance**  
Date: 2023-02-14  
Category: Party

Join us for a Valentine's Day dance.

[View Details](#)

**Spring Festival**  
Date: 2023-03-21  
Category: Festival

Welcome the spring season with a festival!

[View Details](#)

## Use Case 7: View Event Details

## Event Details

**Spring Festival**

Date: 2023-03-21

Category: Festival

Join us as we welcome the spring season with music, food, and fun activities for all ages! Enjoy live performances, local vendors, and more.

## Use Case 8: Create New Event Entry

### Manage Events

#### Create New Event

Title:

Date: dd/mm/yyyy

Category:

Description:

---

#### Existing Events

**New Year's Celebration** (Date: 2023-01-01, Category: Holiday)  
Description: Celebrate the new year with us!

**Valentine's Day Dance** (Date: 2023-02-14, Category: Party)  
Description: Join us for a Valentine's Day dance.

**Spring Festival** (Date: 2023-03-21, Category: Festival)  
Description: Welcome the spring season with a festival!

## Use Case 9: Modify Existing Event

### Modify Event Details

Select Event to Modify:

#### Modify Selected Event

Title:

Date:

Category:

Description:

---

#### Existing Events

**New Year's Celebration**  
Date: 2023-01-01  
Category: Holiday  
Description: Celebrate the new year with us!

## Use Case 10: Search For Events by Date or Category

### Search for Events

**Search by Date:**



**Search by Category:**



**Search Events**

## Use Case 11: Administrator Creates Customized Questions

**Get Involved with Worth The Words**

1. How did you hear about Worth The Words?

Social Media  
 Friend or Family  
 Online Search  
 Event  
 Other

2. What types of volunteer activities are you interested in? (Select all that apply)

Event Planning  
 Fundraising  
 Community Outreach  
 Administrative Support  
 Other

3. Have you previously volunteered with Worth The Words?

Yes  
 No

## Use Case 12: Administrator Manages the Form Design

Get Involved with Worth The Words

SUMMARY → DESIGN SURVEY → COLLECT RESPONSES → ANALYZE RESULTS → PRESENT RESULTS

STYLE

SETTINGS THEMES

MY THEMES

Upgrade to unlock custom themes. UPGRADE

STANDARD THEMES

	Heritage	...
	Simple	...
	Full Color	...
	Highrise	...
	Dewdrop	...

UPGRADE TO ADD A LOGO

Get Involved with Worth The Words

+ PAGE TITLE

1. How did you hear about Worth The Words?

Social Media

Friend or Family

Online Search

Event

Other

## Use Case 13: Administrator Configures Question Format

**BUILD** ?

Ask as many questions as you need, and add image and text elements to your survey without worrying about a question limit.

**UPGRADE**

---

 Multiple Choice

---

 Checkboxes

---

 Star Rating **UPGRADE**

---

 Dropdown

---

 Matrix / Rating Scale **UPGRADE**

---

 Best Worst Scale **UPGRADE**

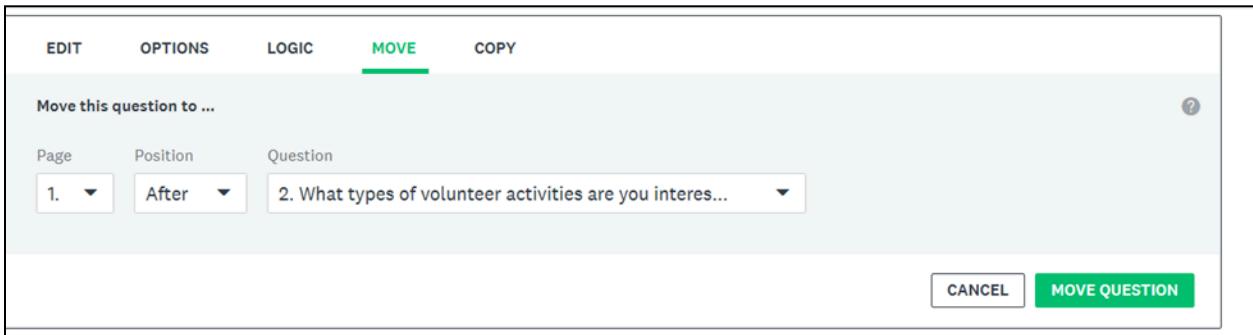
---

 File Upload **UPGRADE**

---

 Ranking **UPGRADE**

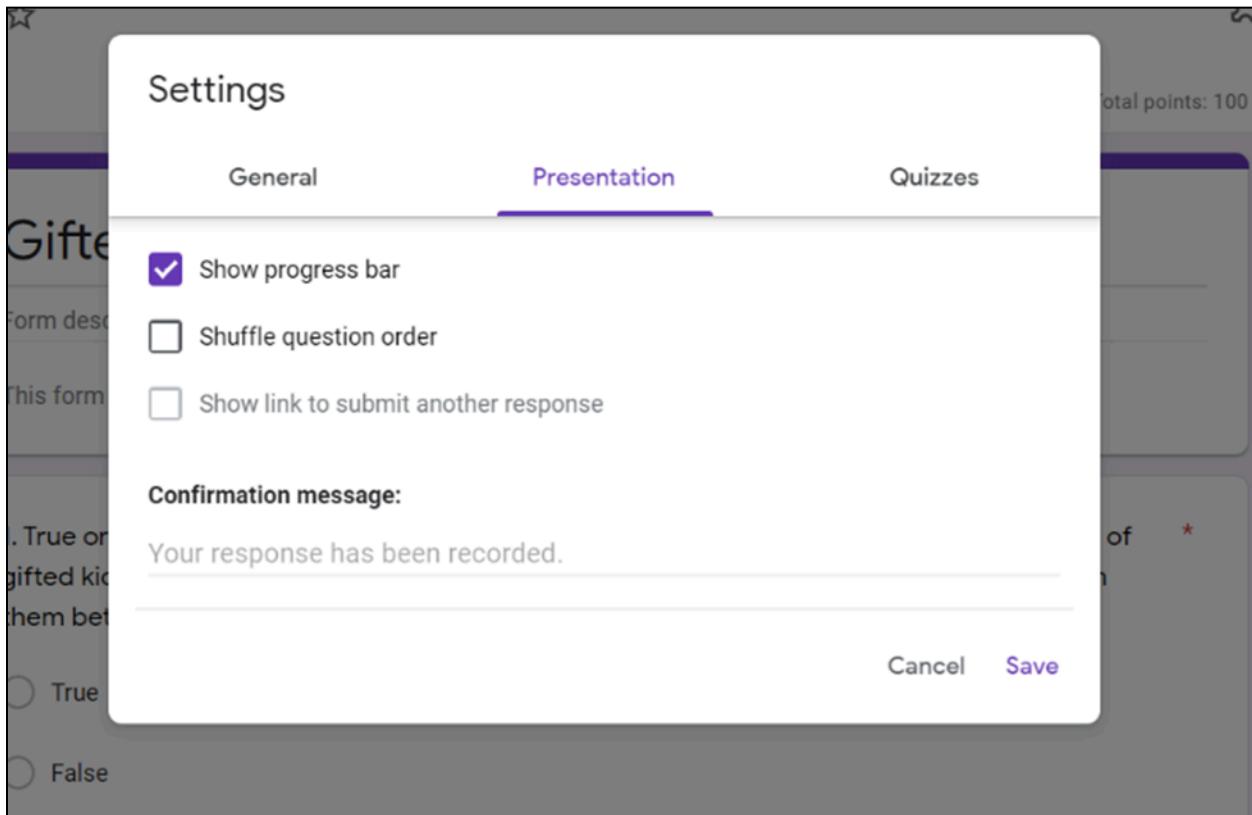
## Use Case 14: Administrator Modifies Question Order



## Use Case 15: Administrator Sets the Question as Mandatory or Optional

The screenshot shows a question editor for a page. At the top, there are buttons for PAGE TITLE, Page Logic, More Actions, Copy page, Edit page info, and a yellow-highlighted "Require questions" option. The main area contains a question Q1: "How did you hear about Worth The Words?" with a "Multiple Choice" type dropdown. Below it, there are two answer options: "Answer Genius" (selected) and "Social Media". To the right of the answers are "Select type" and a toggle switch. The "Require questions" option in the top menu is highlighted with a yellow box.

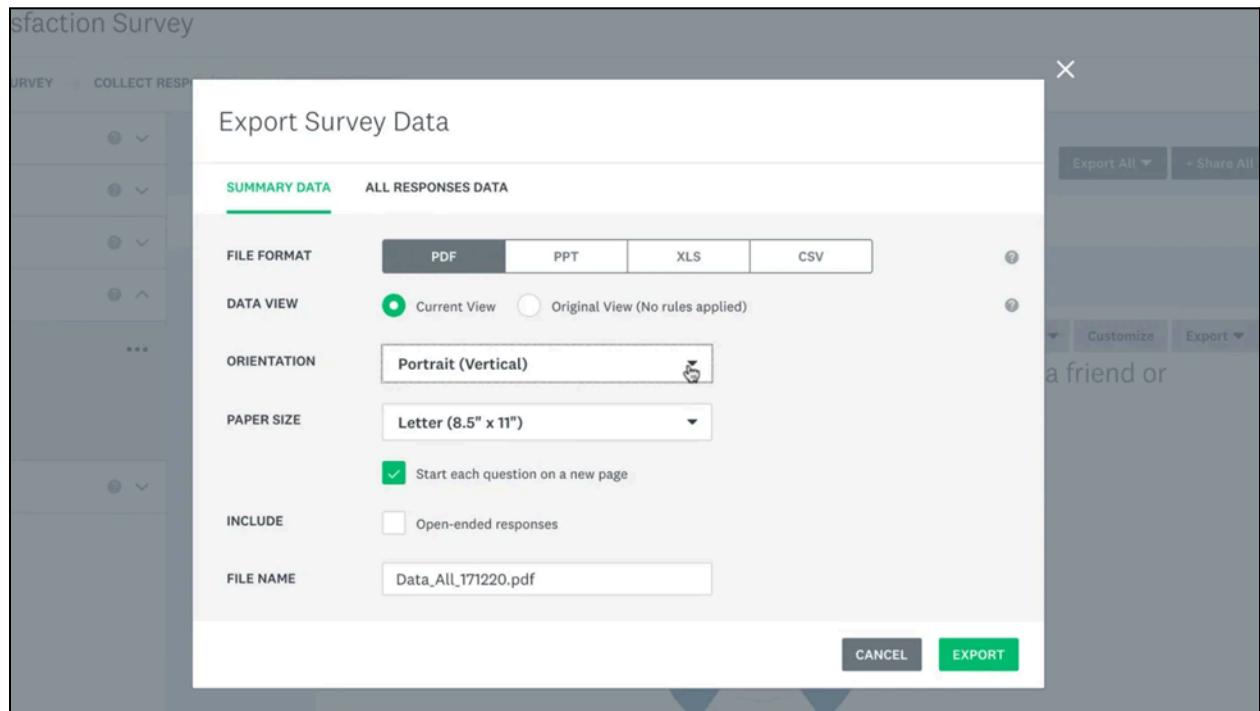
## Use Case 16: User Uses the Autosave Feature to Return to Questionnaire Later to Complete



## Use Case 17: Administrator Previews Form Before Submission

A screenshot of a survey preview interface. On the left, a sidebar shows "Survey overview" and "Showing all pages". Below it, "Page 1" is expanded, showing five questions: Q1, Q2, Q3, Q4, and Q5. The main area displays "Get Involved with Worth The Words" and question Q1: "How did you hear about Worth The Words?". Below the question are five radio button options: Social Media, Friend or Family, Online Search, Event, and Other. A green progress bar at the bottom indicates "0 of 10 answered". At the bottom right are "Edit survey" and "Continue" buttons.

## Use Case 18: Administrator Reviews User Responses



## Use Case 19: System Encrypts User Response

Availability *	<input type="text" value="Long answer text"/>
Phone number *	<input type="text" value="Short answer text"/>
Skills and Interests *	<input type="text" value="Long answer text"/>
Previous Volunteer Experience *	<input type="text" value="Long answer text"/>



## Use Case 20: System Validates User Input

Questions Responses Settings

## Resistance Training Goals Questionnaire

Form description

How many days in a week can you work out?

Short-answer text

Number Between 3 and 6 Custom error text

Required

+++

= Short answer

Number Between 3 and 6 Custom error text

Required

### Use Cases 21-23: Volunteer Form

## Volunteer with us!

Want to partner with us? Let us know!

jamesdog2003@gmail.com [Switch account](#)

Not shared

View our volunteer opportunities!

Choose

Looking for more? We'd love to know what you want to do!

Your answer

Any skills you'd like to share? (ex. music production, audio, etc.)

Your answer

**Submit** **Clear form**

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Google Forms

## Use Cases 24-26: Contact Form

### Contact us!

Any questions, comments, concerns? Let us know!

jamesdog2003@gmail.com [Switch account](#) 

 Not shared

Any questions for us?  
we'll try our best to respond as soon as possible!

Your answer

How was your experience with us?

Your answer

Looking to partner with us?

Yes  
 No  
 Maybe, send me more info!

**Submit** **Clear form**

## Use Case 27: Donation Banner Redirect

Worth the Words

[DONATE](#) [ABOUT](#) [GET INVOLVED](#) [CONTACT](#)



Inspiring Creativity. Empowering Voices.



## Use Case 29: Redirect Header to Home

Worth the Words

[HOME](#) [DONATE](#) [ABOUT](#) [GET INVOLVED](#) [CONTACT](#)

# About



## Use Case 30: Socials Link Button

The screenshot shows a website header with the text "Worth the Words". In the top right corner, there is a navigation bar with links for "DONATE", "ABOUT", "GET INVOLVED", and "CONTACT". Below the navigation bar, there are two social media icons: Facebook and Instagram, which are circled in red. The main content area features a large photograph of a person's hands using a DJ-style controller. Overlaid on this photo is a white rectangular box containing the text "Inspiring Creativity. Empowering Voices.". Below the main photo are three smaller images: a person at a laptop, a person using a DJ controller, and two people working together at a table.

## Use Case 34: Add Security Plug-Ins

### Configure Security Plug-In

**Plug-In Name**  
Enter the plug-in name

**Security Level**  
Low

**Additional Settings**  
Add any custom configurations here...

**Activate Security Plug-In**

### Use Case 35: Create Encryption for Personal Information

## Encrypt Personal Information

**Select Data Type to Encrypt**

Email

**Encryption Method**

AES (Advanced Encryption Standard)

**Key Length (Bits)**

Enter key length (e.g., 128, 256)

**Encrypt Data**

### Use Case 36: Add Analytics Plug-In

## Add Analytics

**Analytics Tool Name**

Enter the analytics tool name

**Tracking Options**

Enter tracking details, e.g., page views, user activity...

**Activate Analytics**

### Use Case 37: Add Square Analytics

## Enable Sales Analytics

**Square Account Name**

Enter your Square account name

**Analytics Type**

Specify the analytics to track, e.g., sales trends, revenue growth

**Activate Sales Analytics**

### Use Case 38: Manage Owner and Admin Privileges

Allow stats reports to be viewed by

- Administrator
- Editor
- Author
- Contributor
- Subscriber
- Copy Editors
- Reporters
- Revisor
- SEO Manager
- SEO Editor

### Use Case 39: Viewing for Analytics Formatting



### Use Case 40: Exporting of Questionnaire Form

Questions   Responses 23   Settings

23 responses

[View in Sheets](#) ⋮

Accepting responses

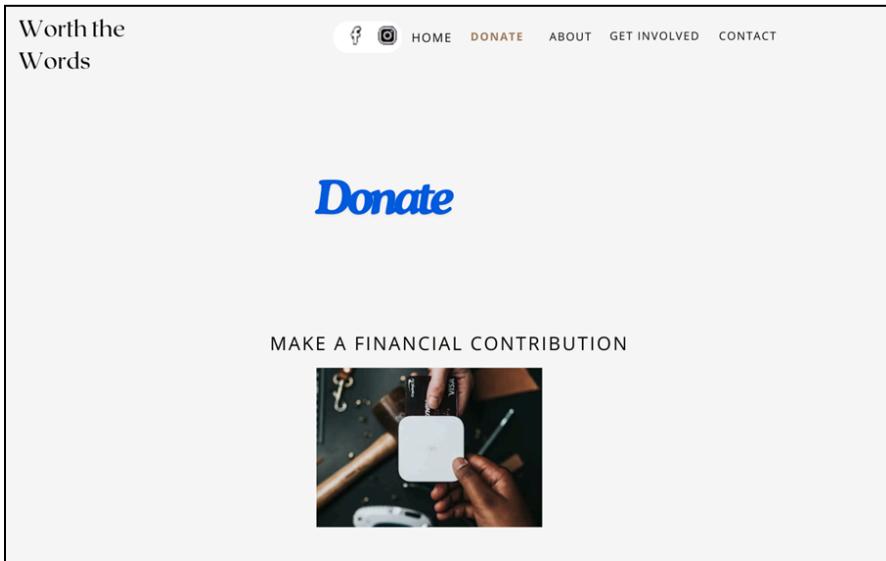
[Summary](#)   [Question](#)   [Individual](#)

### Use Case 41: View Helped Youth Counter

Youth Helped

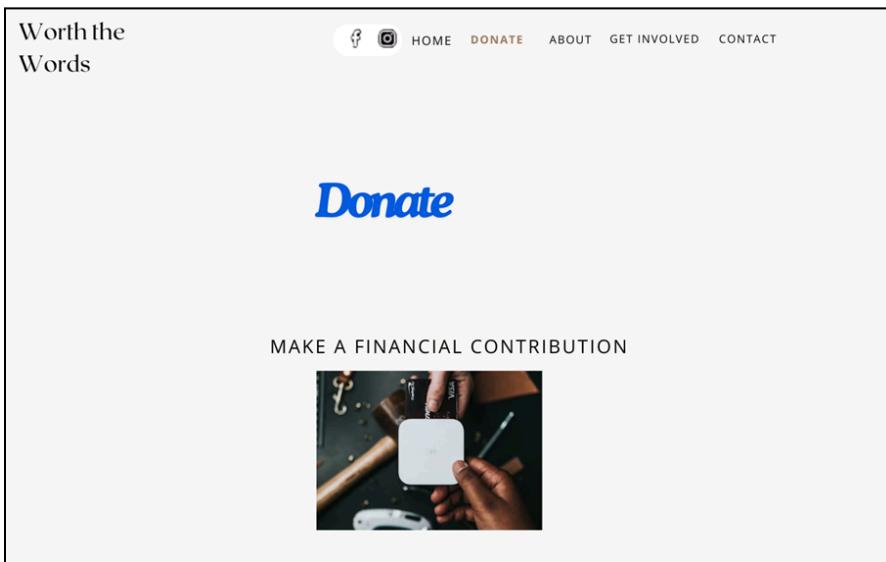
43

## Use Case 42: Formatting Content for All Screens



Fits the same across screens for phones and laptops

## Use Case 43: Create Heading and Footer Uniformity



The footer and header is the same across pages

## Use Case 44: Viewing the Data Guide

# Data Guide

Lots of data

Put data in format a, or format b for this case

## **Use Case 45: Viewing the Editing Guide**

# Editing Guide

Lots of editing

How to change text

How to change images

## **Use Case 46: Viewing the Analytics Guide**

# Troubleshooting Guide

How to fix an issue with crashing

How to fix an issue with images not displaying