

CIS 320-01

Elaboration Spec

Due Date: 12/11/17

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Requirements

Physician, Non-Physician clinical, interpreter, and general volunteer and Donors personal information will be entered and can be modified. Donors will be acknowledged and will have a way to share their contribution in social media. Event management will be facilitated by having an easy access to volunteer information as well as an effortless way of tracking the volunteer participation. The system will inform visitors about news and patient stories, the system will allow the visitor to translate the website to their preferred language.

Nonfunctional Requirements

1. Operational Requirements

- 1.1 System will track volunteer dates and hours based on sign in sign out time.
- 1.2 System will allow uploading of pdf files.

Functional Requirements

1. Manage Medical Volunteer Information

- 1.1 The system will enable to enter Physician personal information.
- 1.2 The system will enable to modify the Physician personal information.
- 1.3 The system will enable to delete the Physician personal information.
- 1.4 The system will enable to enter Non- Physician Clinical personal information.
- 1.5 The system will enable to modify the Non- Physician Clinical personal information.
- 1.6 The system will enable to delete the Non- Physician Clinical personal information.
- 1.7 The system will allow the interpreter to enter their personal information.
- 1.8 The system will enable to modify the interpreter personal information.
- 1.9 The system will enable to delete the interpreter personal information.

2. Manage Non-Medical Information

- 2.1 The system will allow non-Clinical volunteer to enter their personal information.
- 2.2 The system will enable to modify the non-Clinical volunteer personal information.
- 2.3 The system will enable to delete the non-Clinical volunteer personal information.

3. Manage Donor Information

- 3.1 Donors will enter in their personal information.
- 3.2 Donors will enter in a specific donation amount, recurring or nonrecurring.
- 3.3 The system may allow donors to cancel a donation.
- 3.4 The system may produce an automated receipt.
- 3.5 The system may automate thank you to donors.
- 3.6 The system may allow donors to sign up to a newsletter.
- 3.7 The system may enable users to create data reports.

3.8 The system may enable the donor to share their donation status to social media.

4. Search and Browse

- 4.1 The system will allow the user to search for upcoming events.
- 4.2 The system will allow the user to search for partner clinic locations.
- 4.3 The system will allow the user to browse S.O.S. news.
- 4.4 The system will allow the user to browse patient stories.

5. Event Time Management

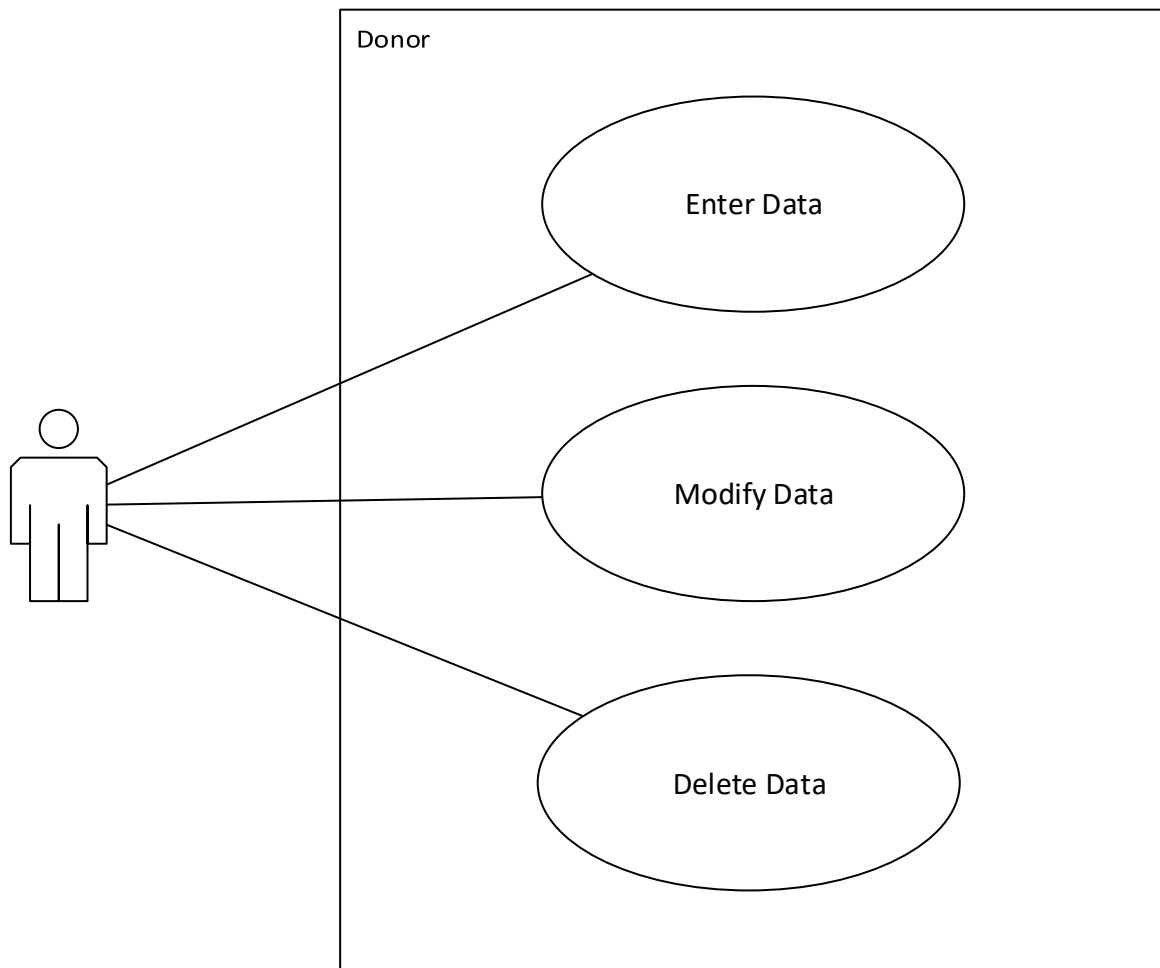
- 5.1 Administrator will allow access to event log in/out form with password
- 5.2 Volunteers will sign in to an event.
- 5.3 Volunteers will sign out of an event.

6. Language Change

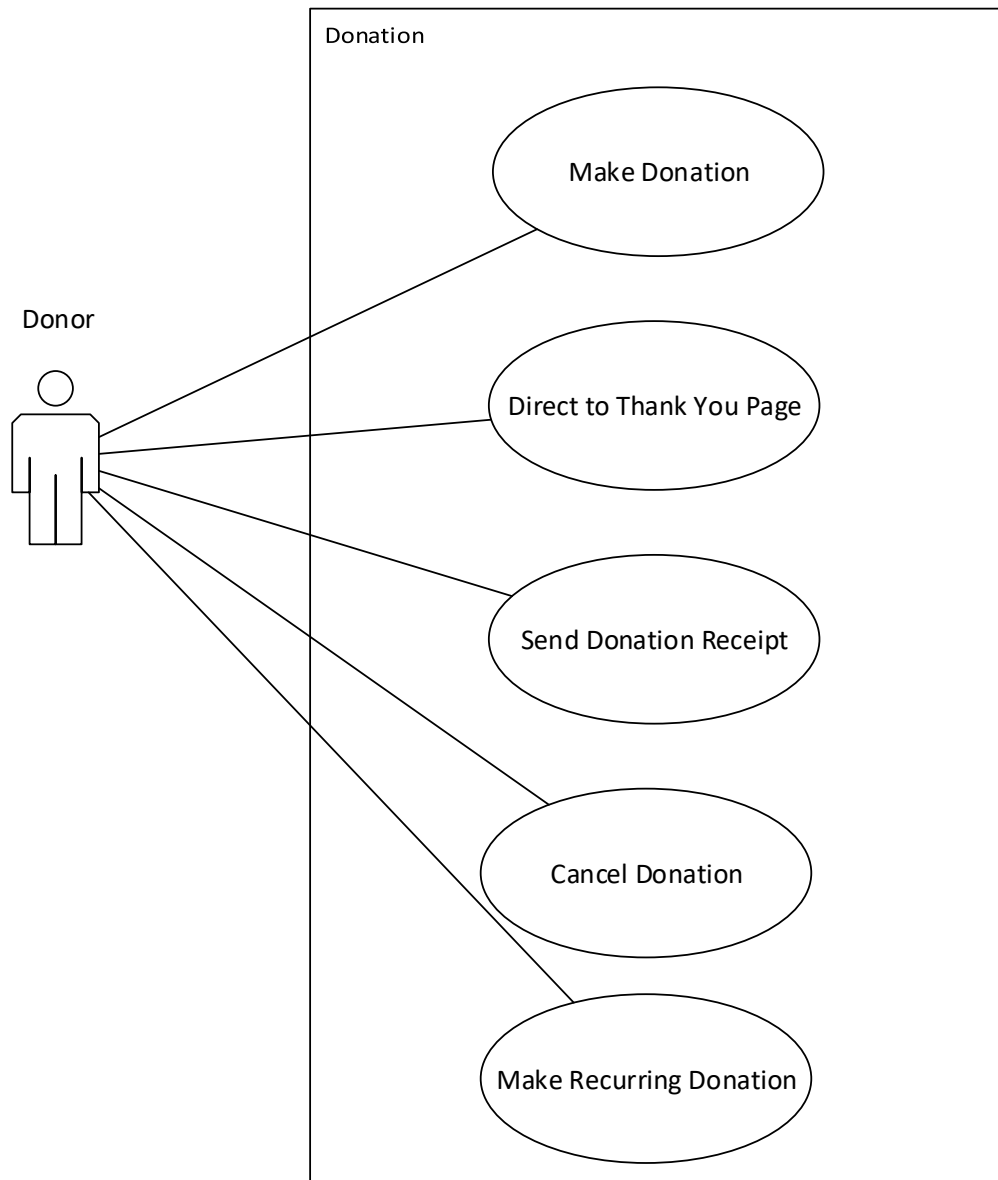
- 6.1 The system will allow the user to translate the website to Spanish.

Use Case Diagrams

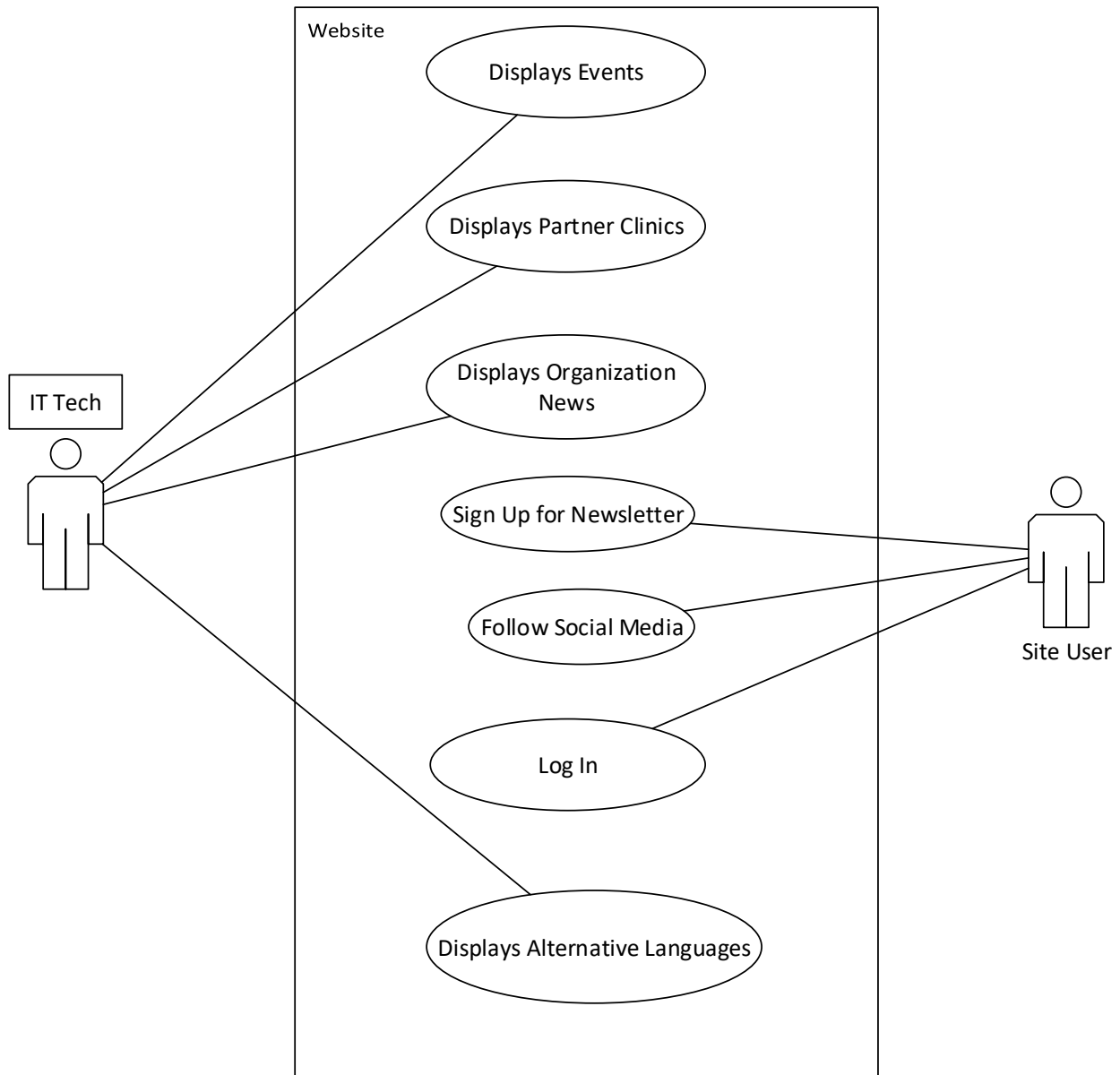
This use case diagram depicts the interaction between the donor and the system when the donor enters, modifies or deletes their data.



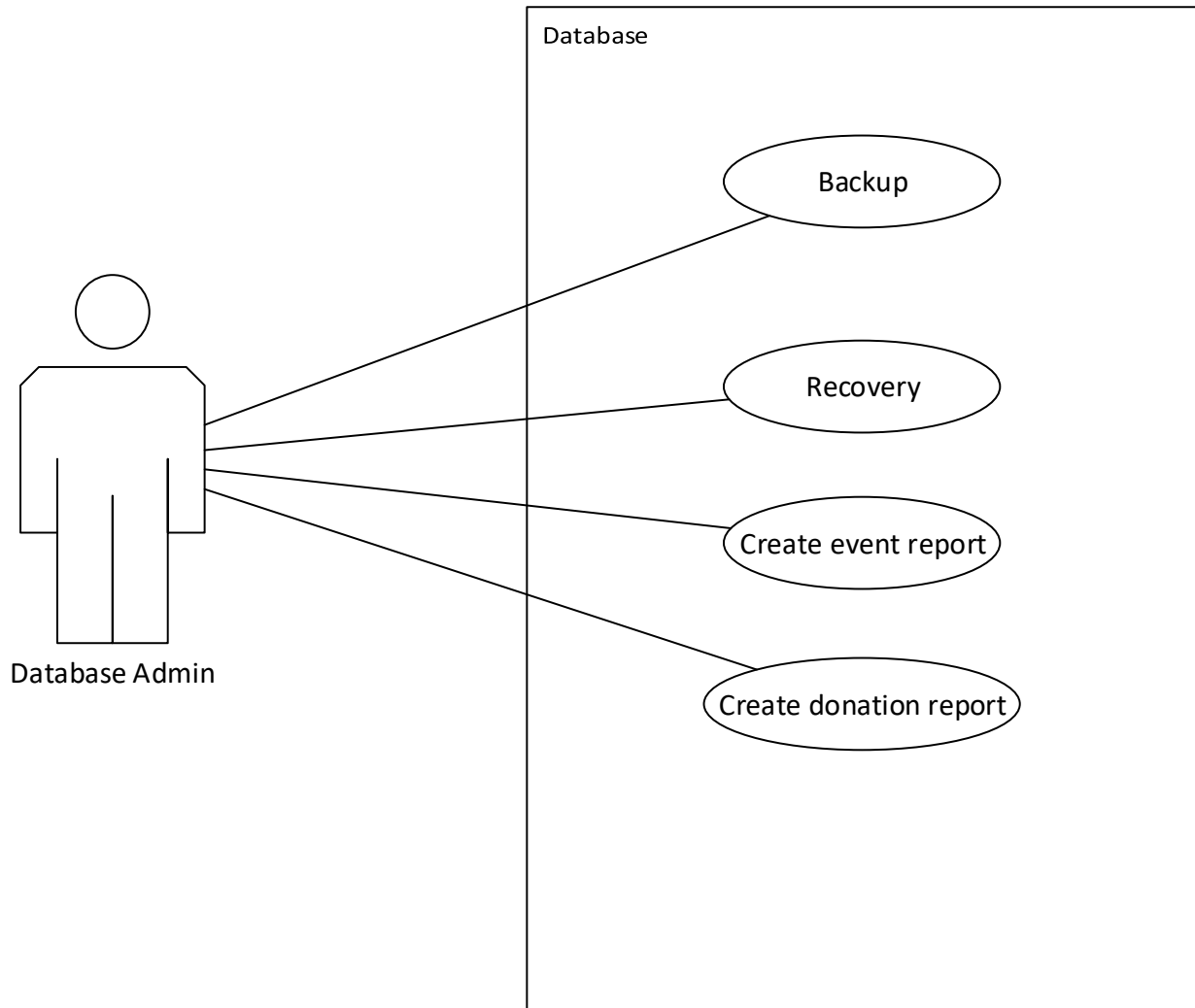
This use case diagram depicts the interaction between the donor and the system when the donor makes a donation, is sent to the thank you page and a receipt is sent, or when a donor cancels a donation.



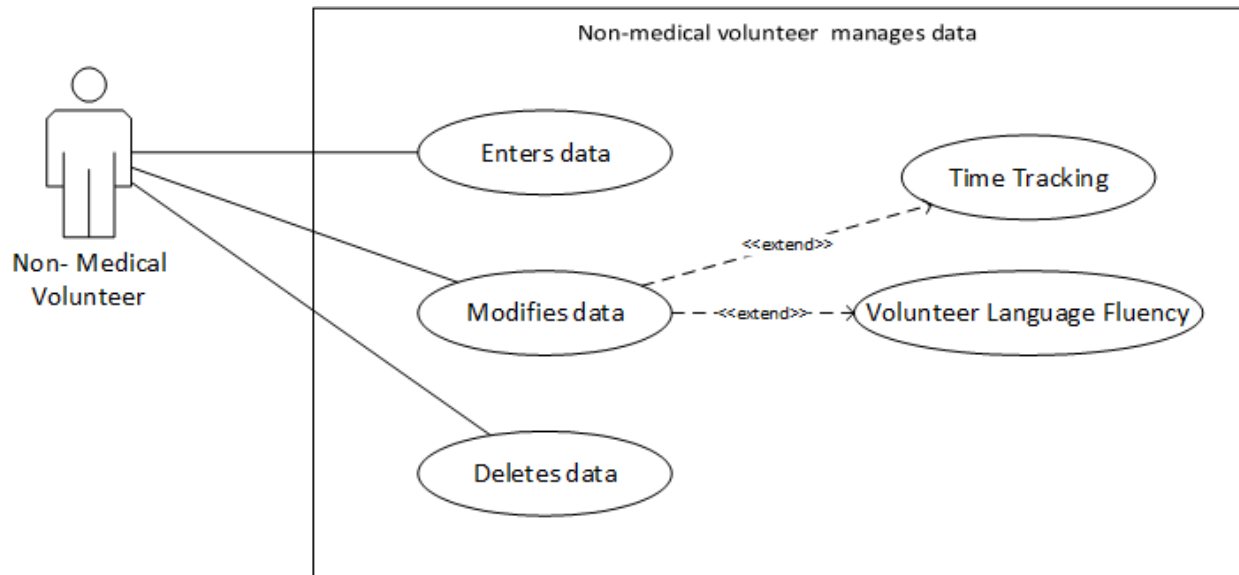
This use case depicts the relationship between the IT tech and the features of the website as well as a site user or visitor. The website displays events, partner clinics, organization news and alternative languages. The user may also log in, follow the organization on social media, or sign up for the newsletter.



This is a use case diagram showing the relationship between the database admin and the system in backing up data, recovery of the data, and creating reports from the data.



This use case diagram depicts the interaction between the system and the non-medical volunteer when the non-medical volunteer enters, modifies, and deletes their data. This also includes updating time and their language.



Trace Matrix

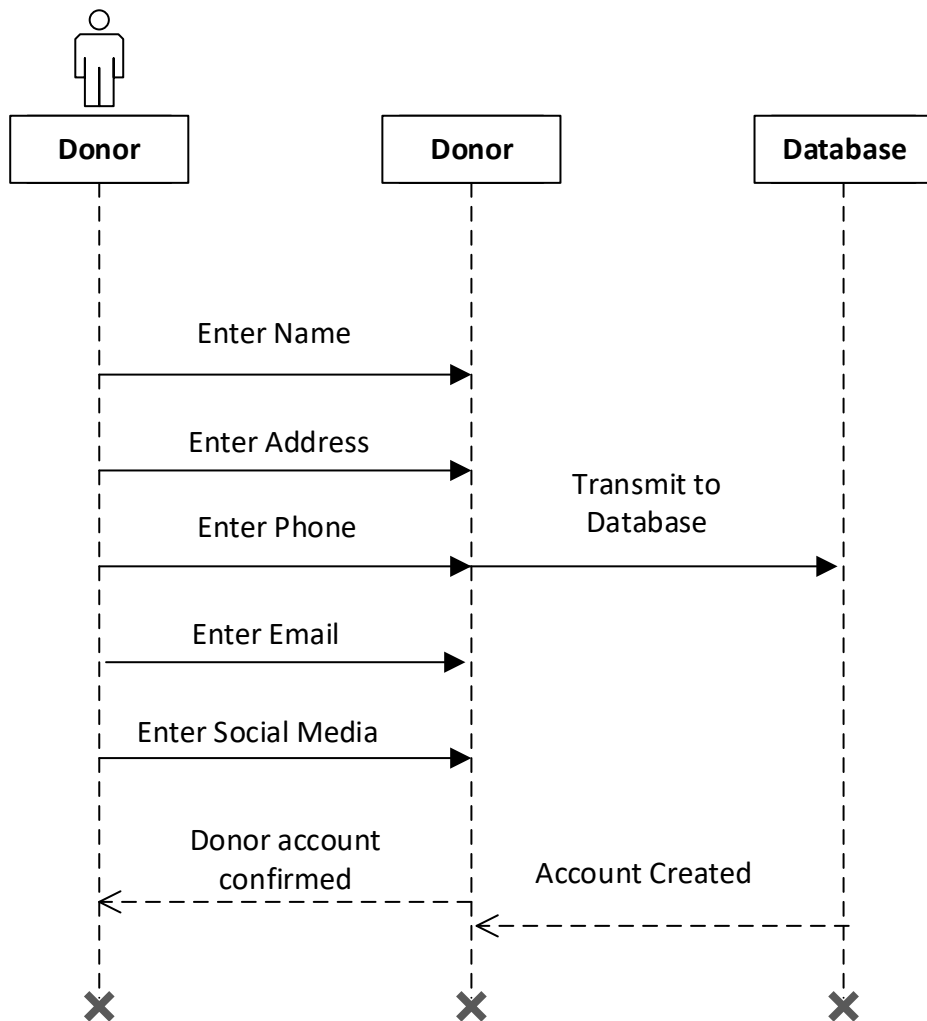
A trace matrix is a graphical representation of the relationship between the use cases and entities.

[illegible]

Sequence Diagrams

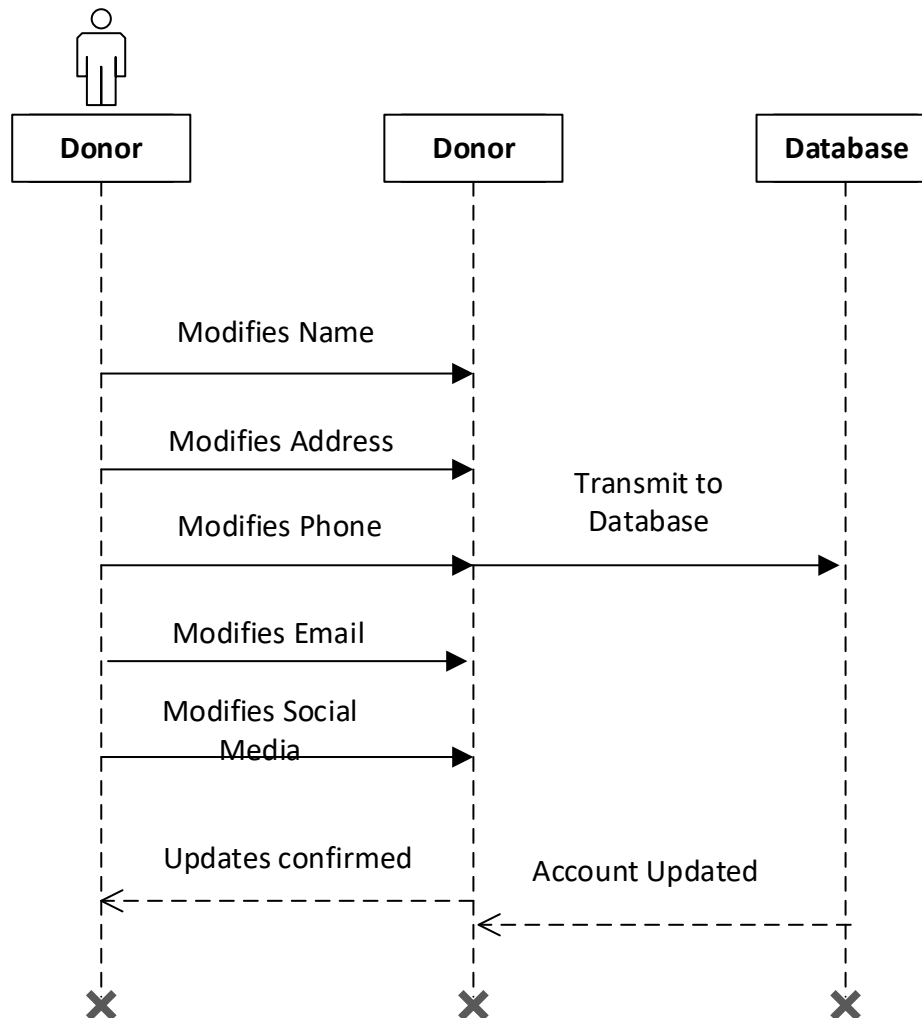
This diagram shows the sequence of events for a donor to enter information.

Donor Enters Data



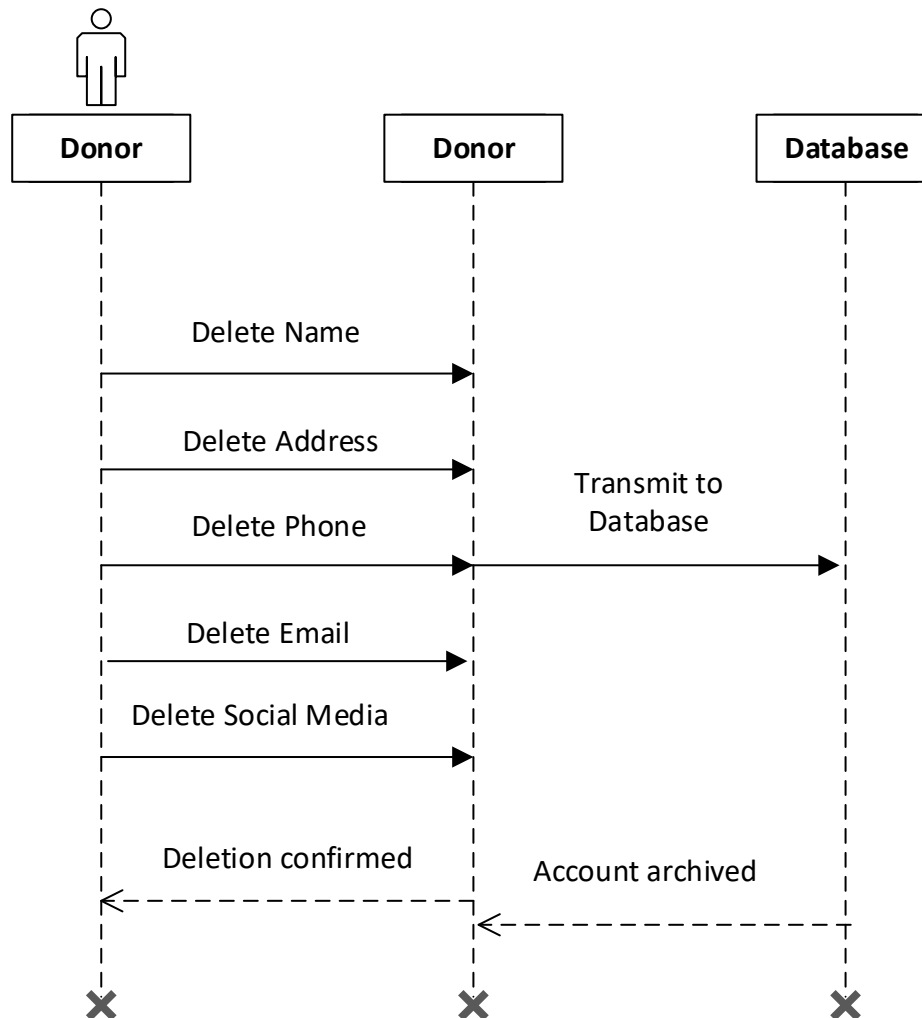
This diagram shows the sequence of events for a donor to modify information.

Donor Modifies Data



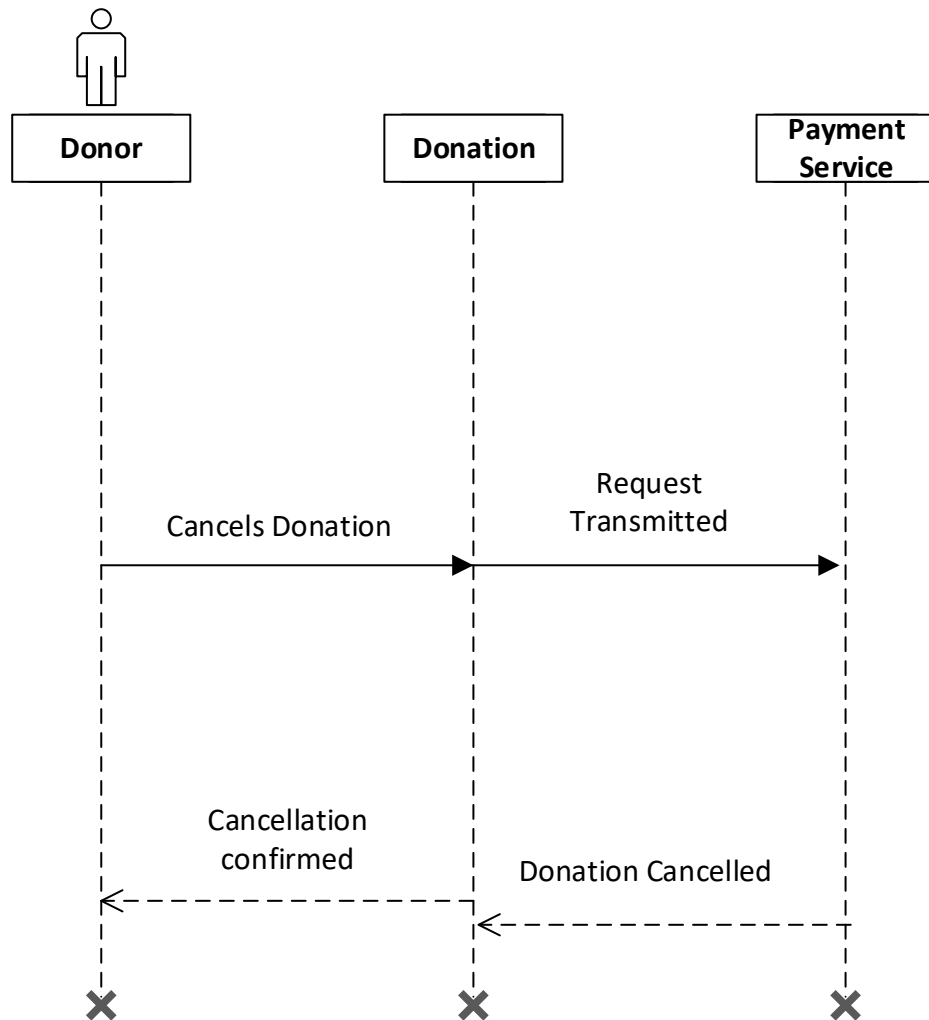
This diagram shows the sequence of events for a donor to delete information.

Donor Deletes Data



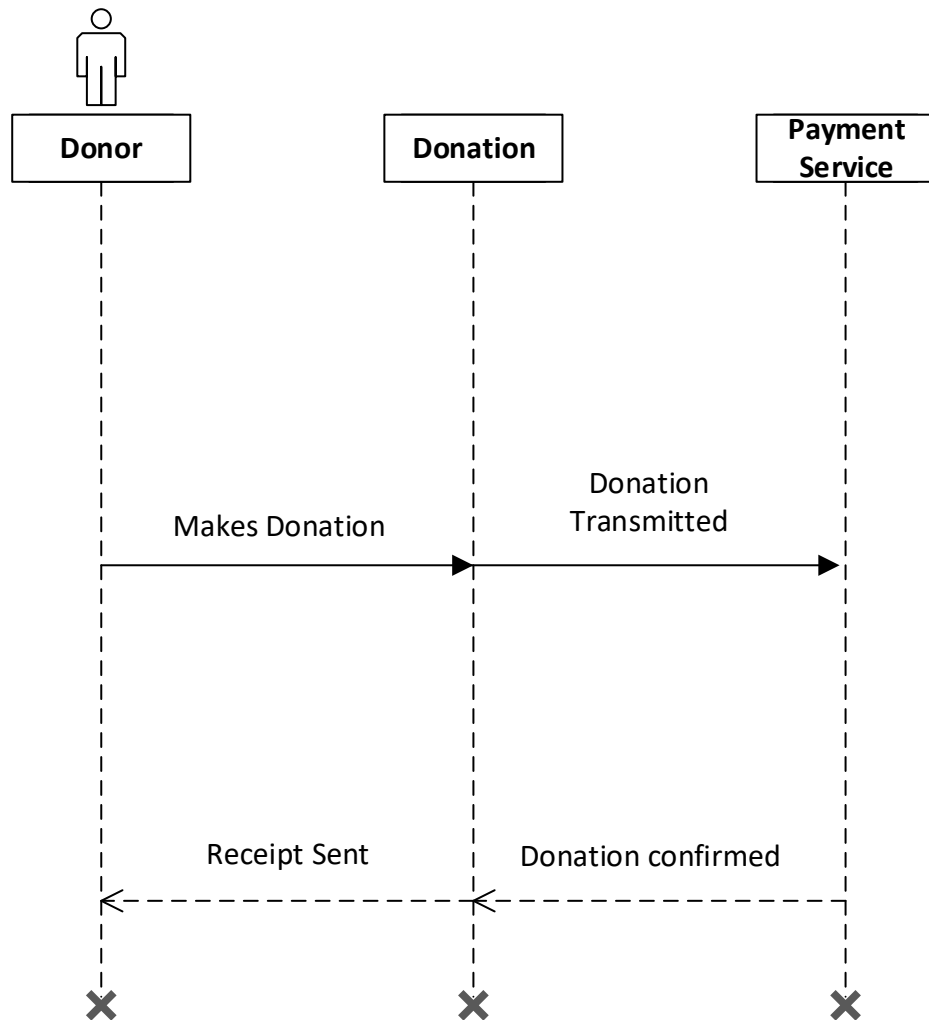
This diagram shows the sequence of events for a donor to cancel a donation.

Donor Cancels Donation

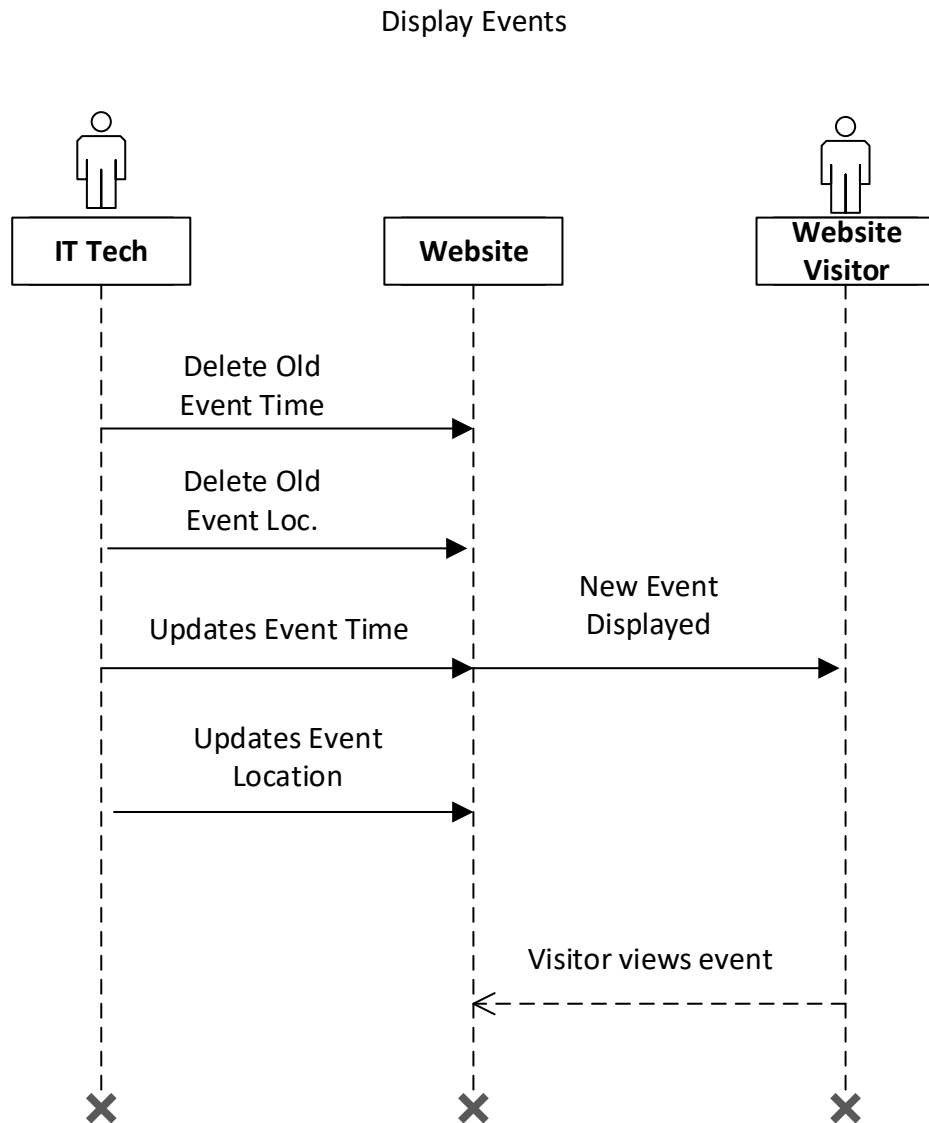


This diagram shows the sequence of events to send a receipt to donor.

Donation Receipt Sent

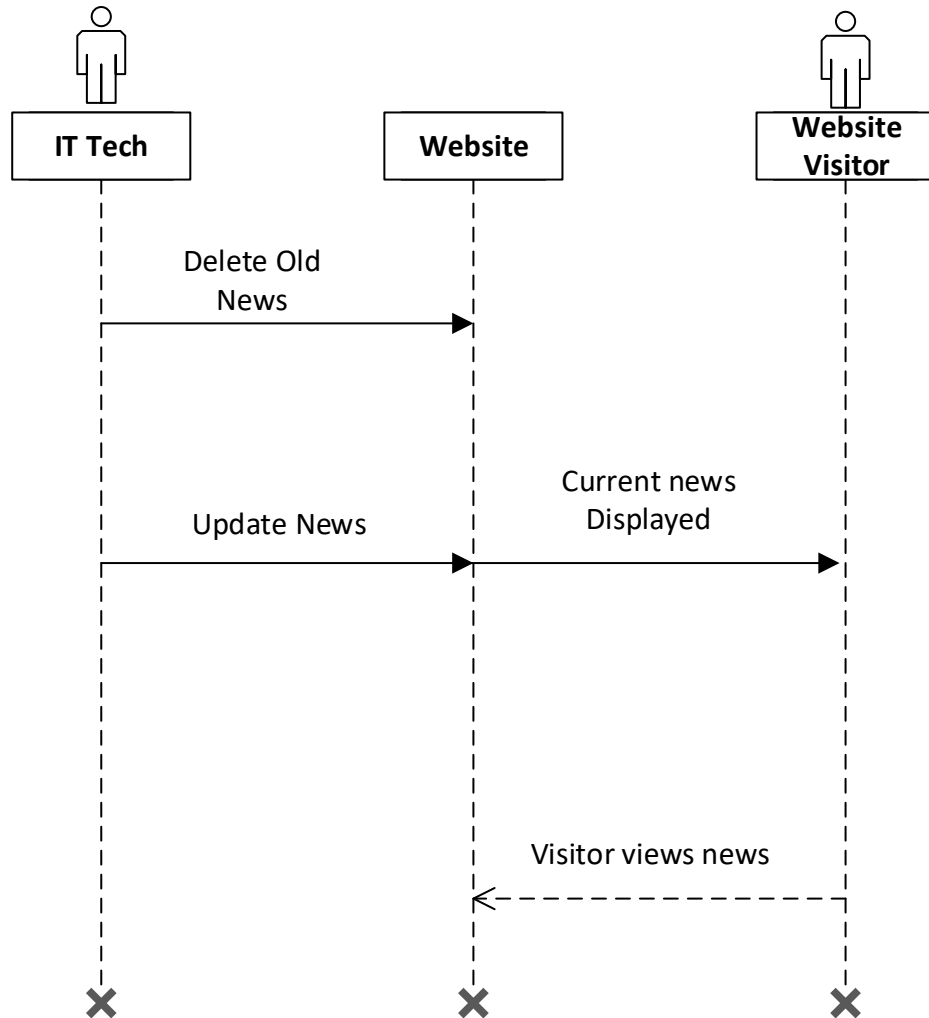


This diagram shows the sequence of events to display upcoming events on the website.

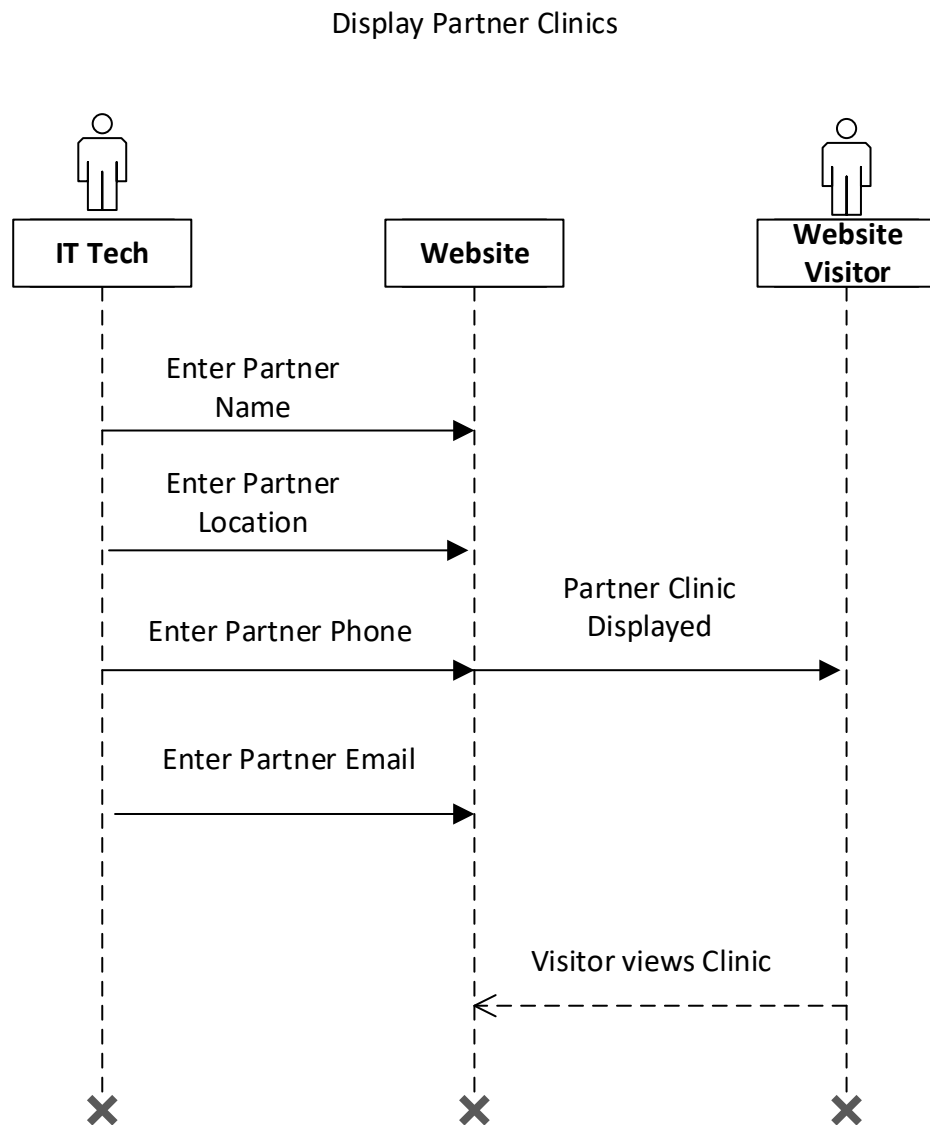


This diagram shows the sequence of events to display organization news on the website.

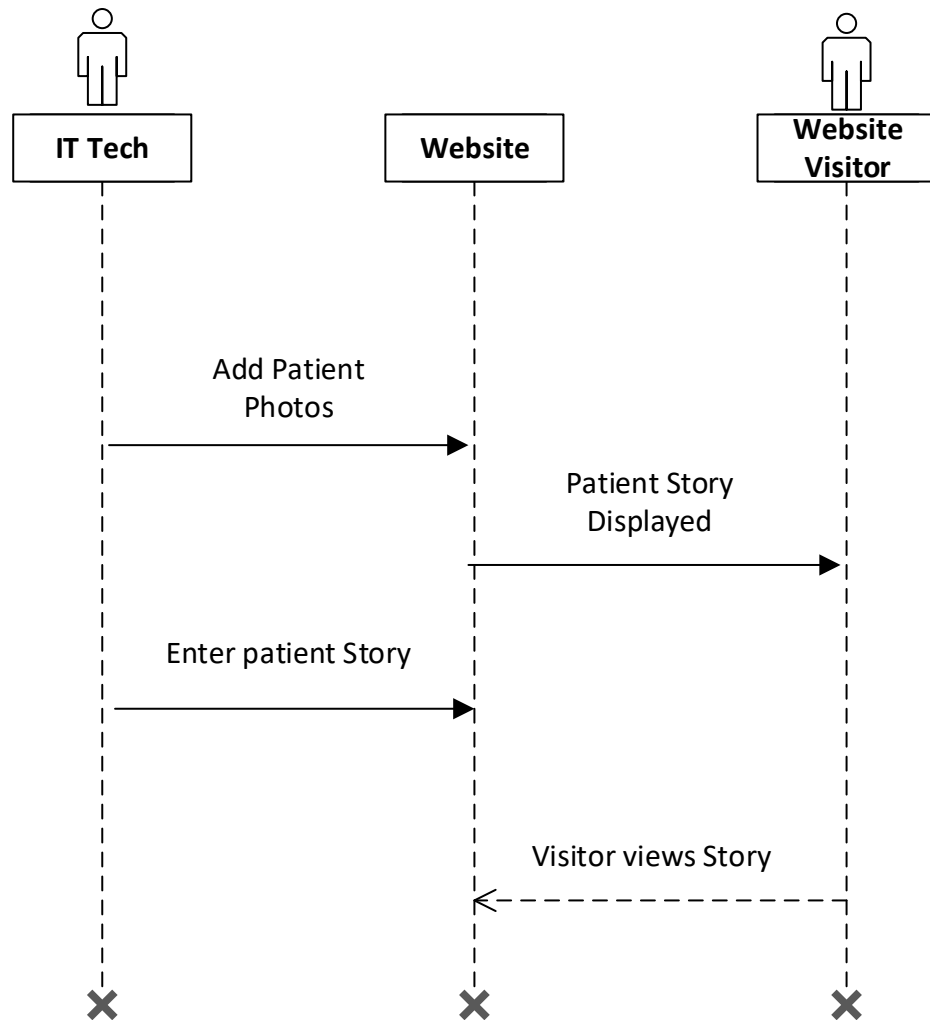
Display News



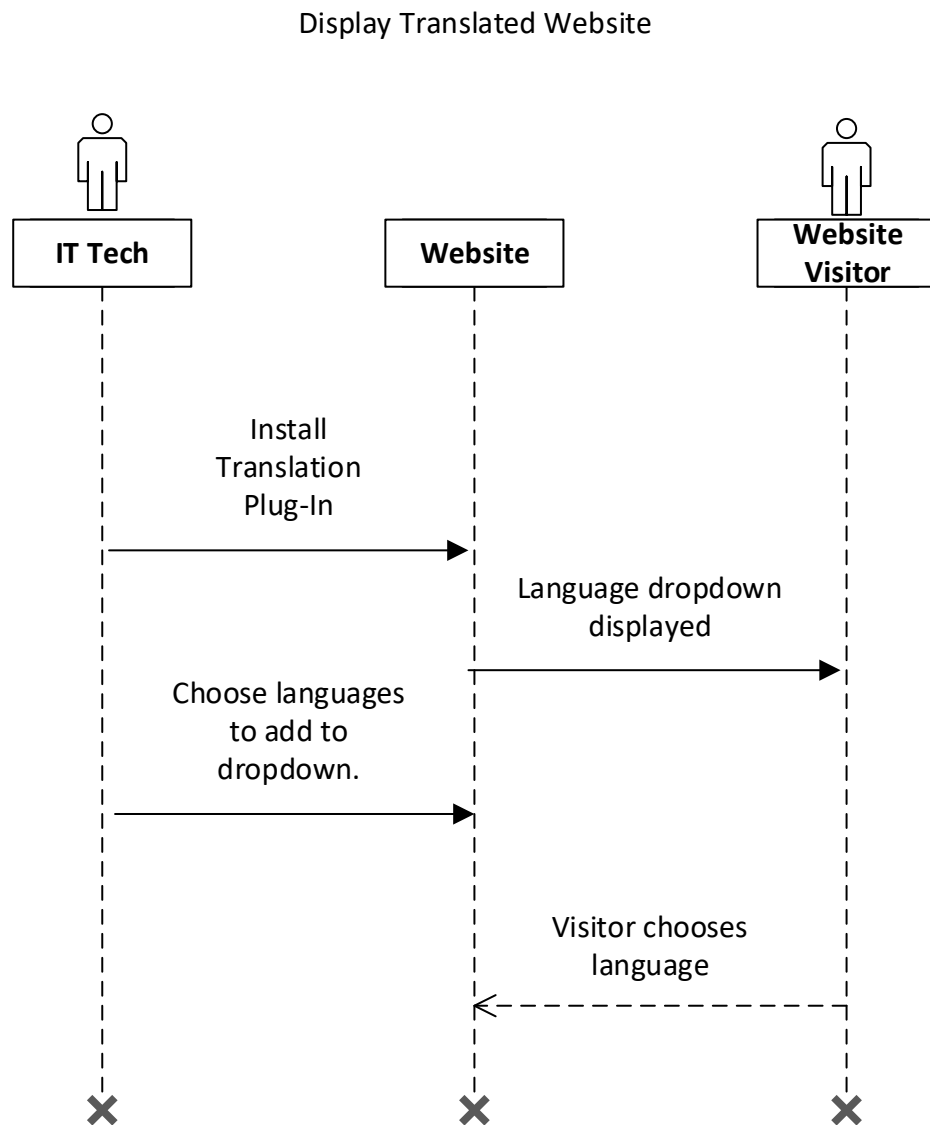
This diagram shows the sequence of events to display partner clinics on the website.



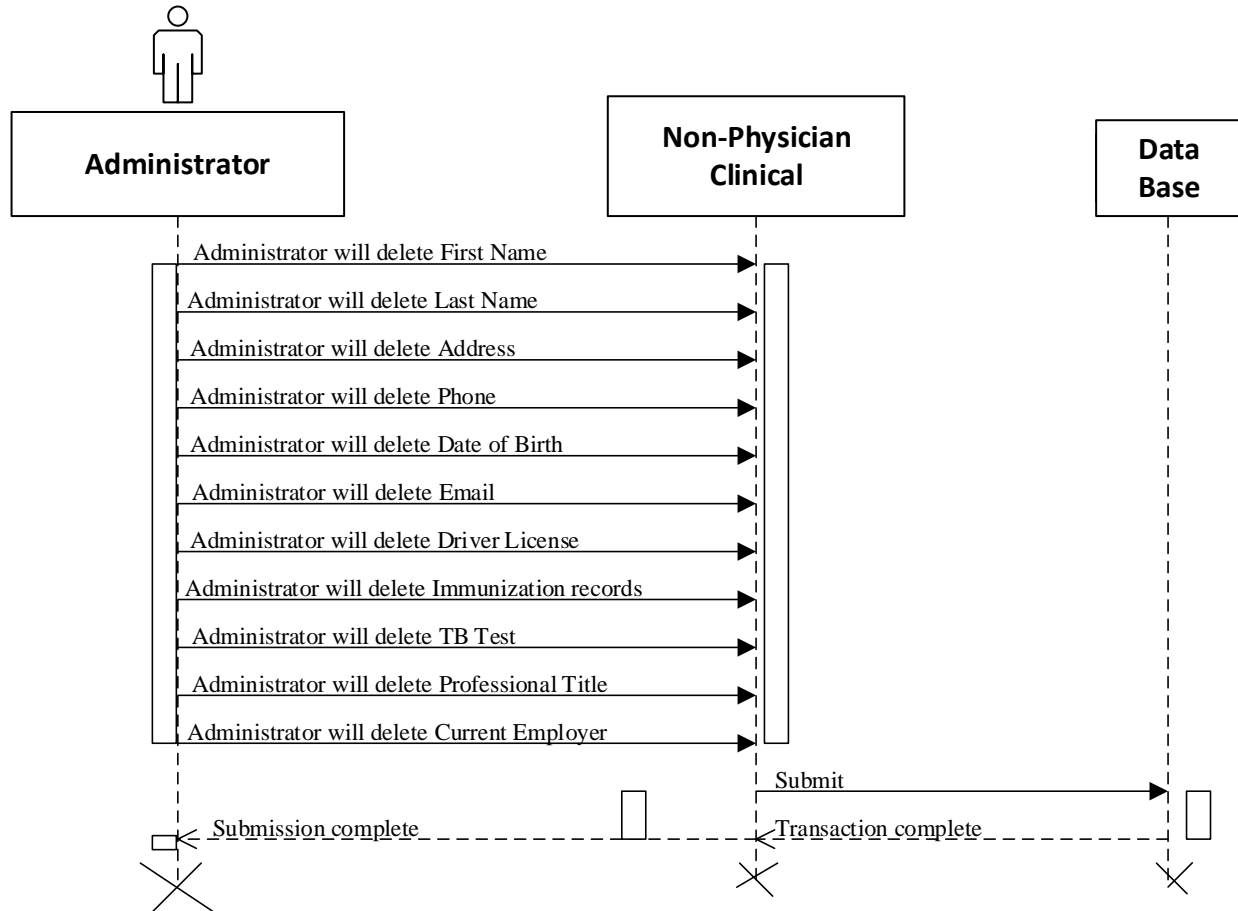
This diagram shows the sequence of events to display patient stories on the website.



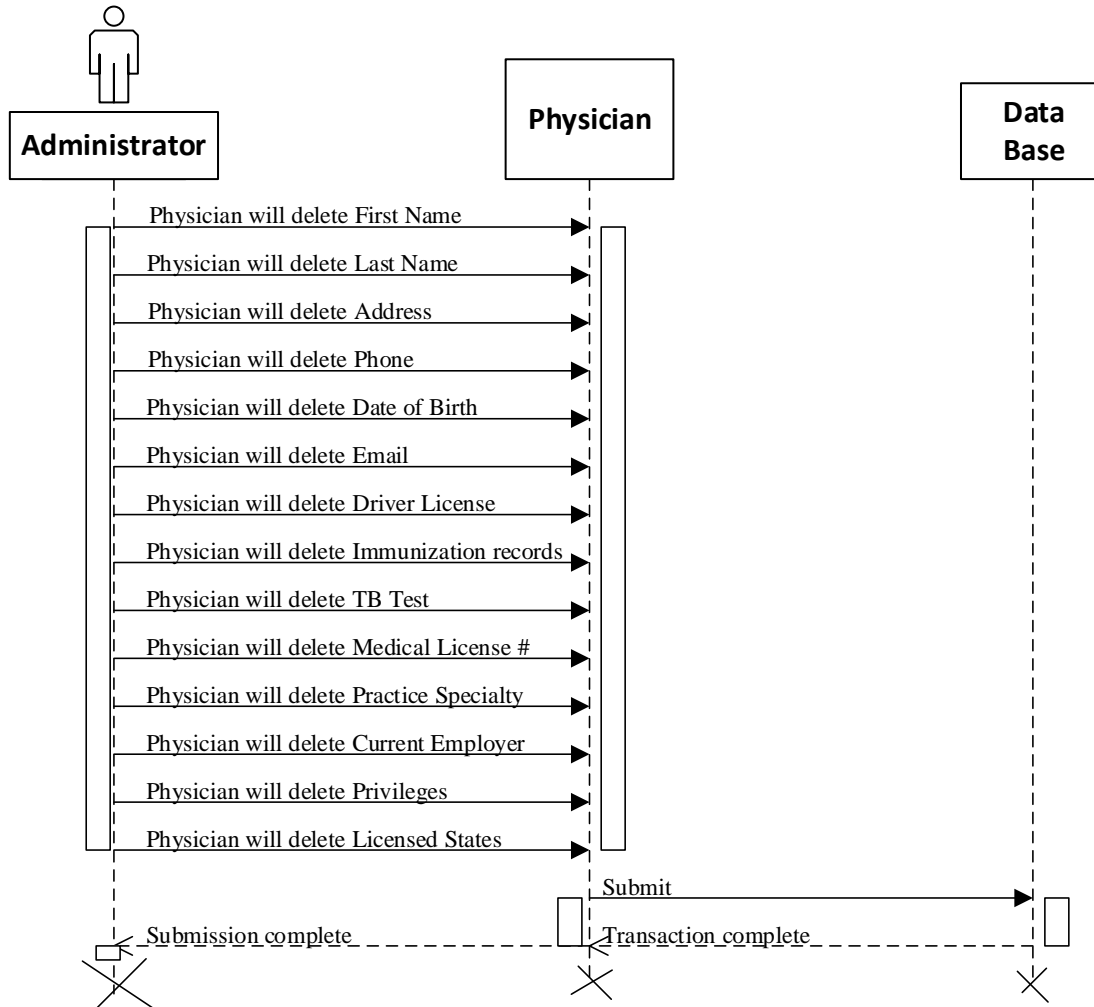
This diagram shows the sequence of events when the website is translated into another language.



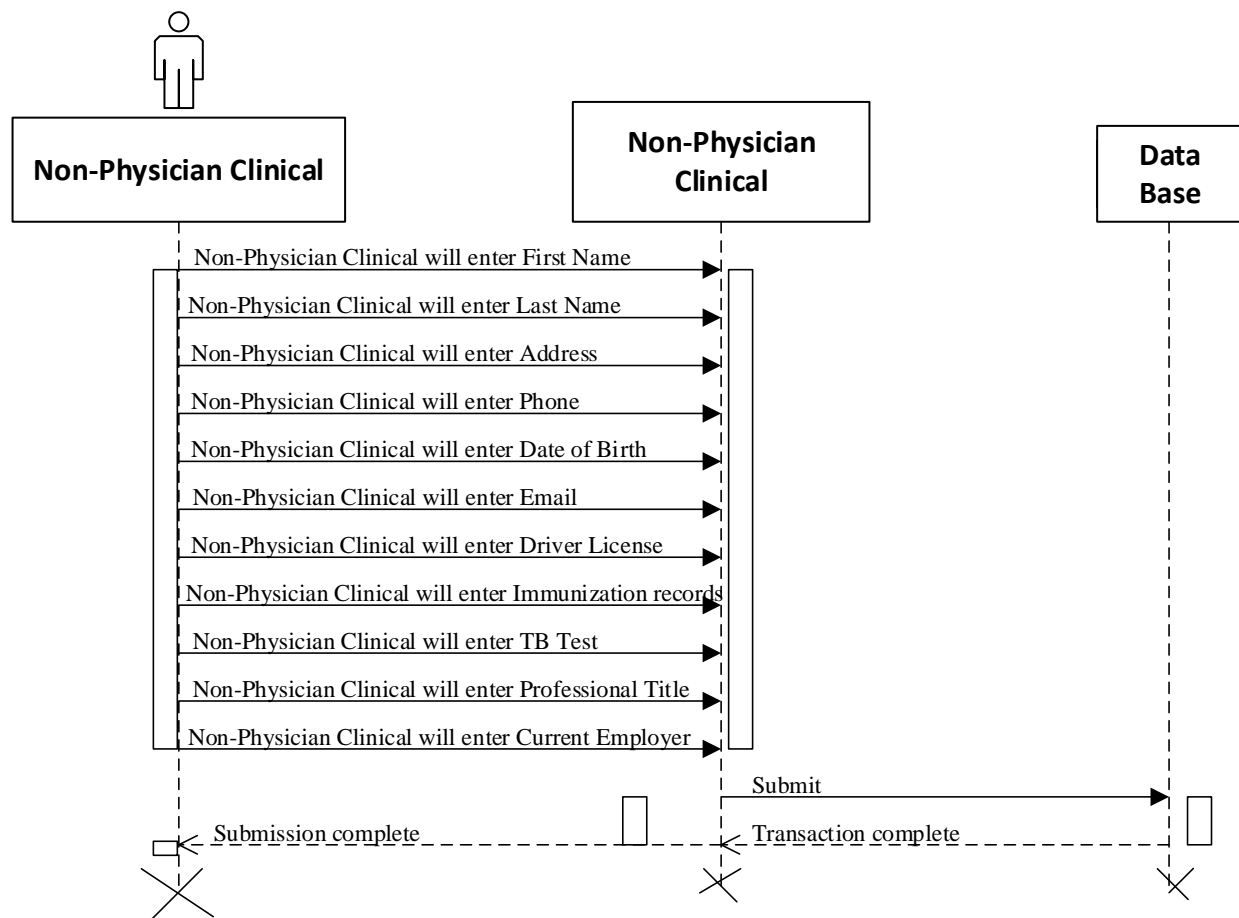
Delete Non-Physician Clinical Data



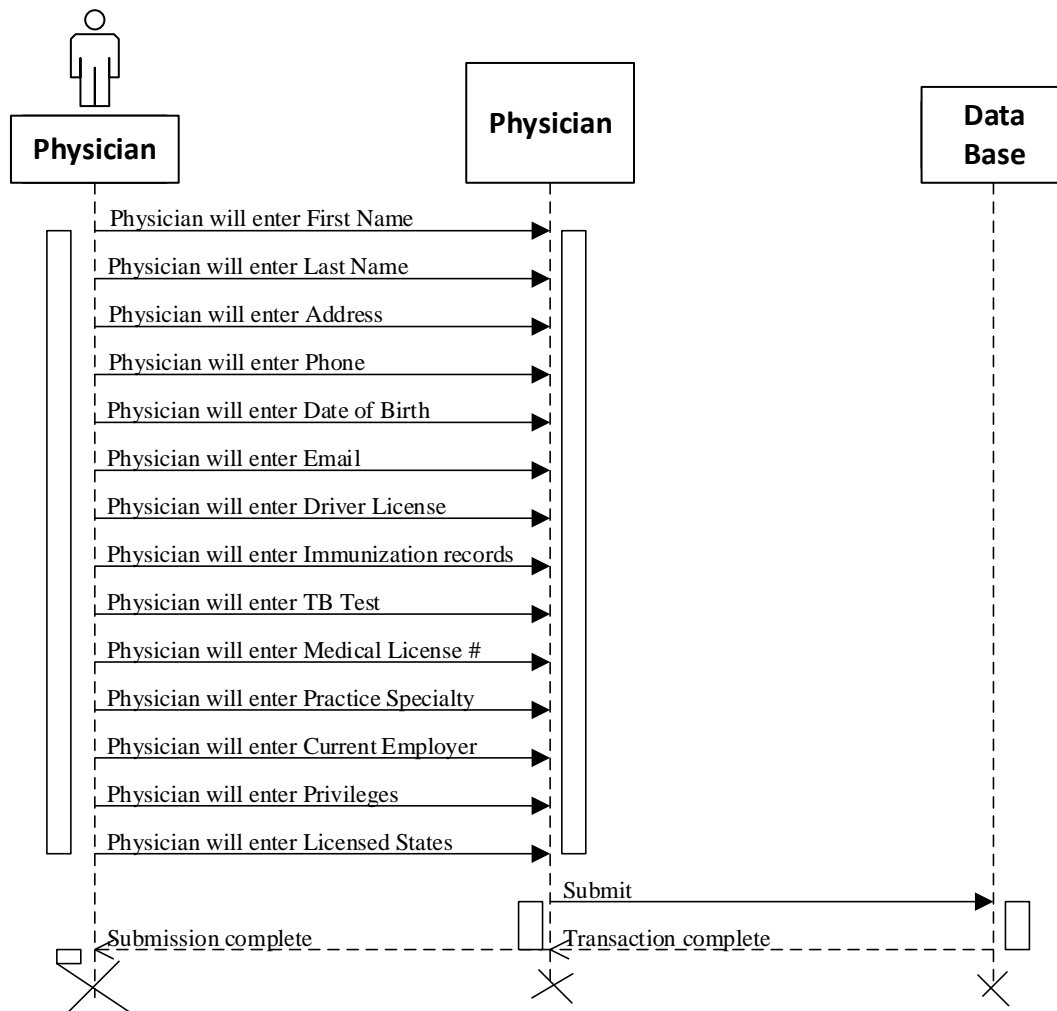
Delete Physician Data



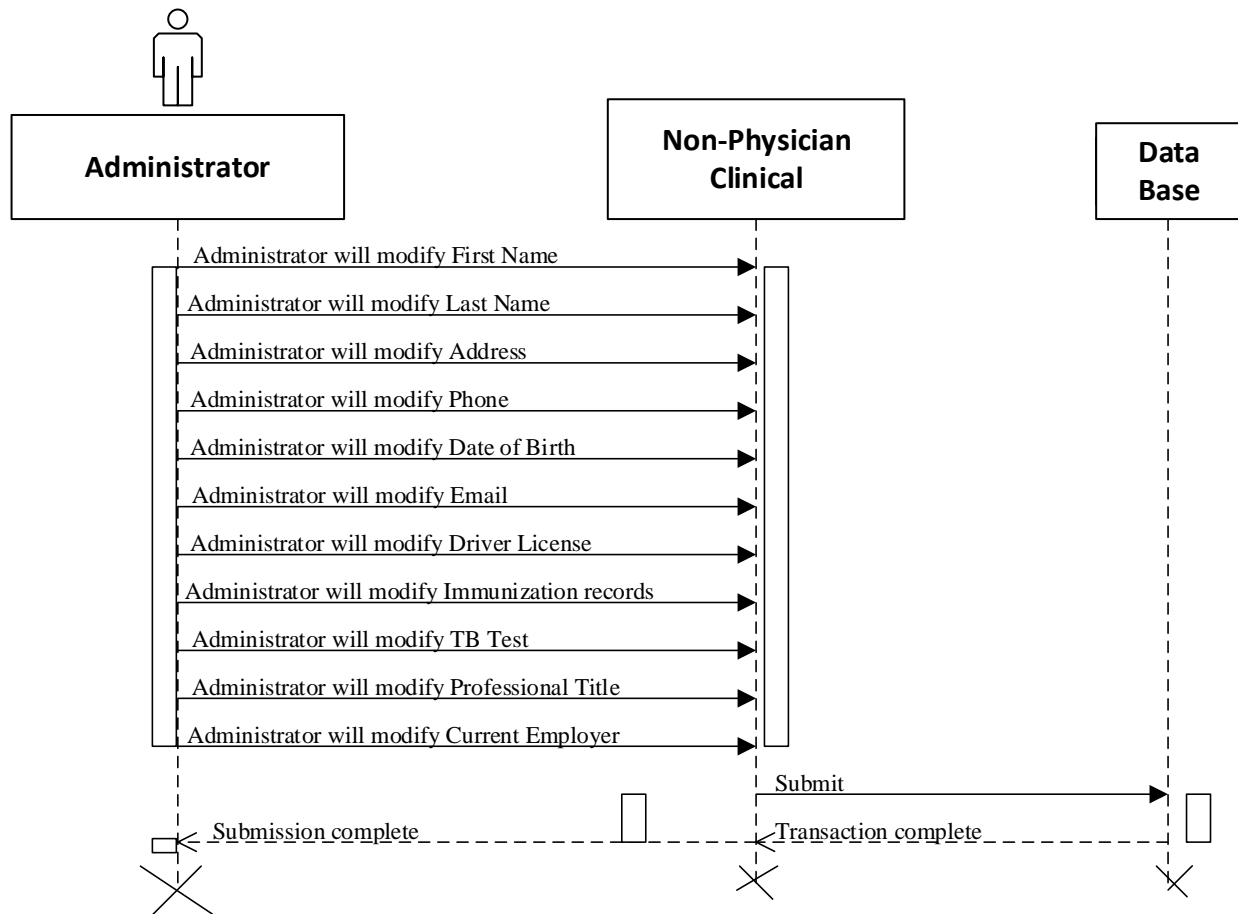
Enter Non- Physician Clinical Data



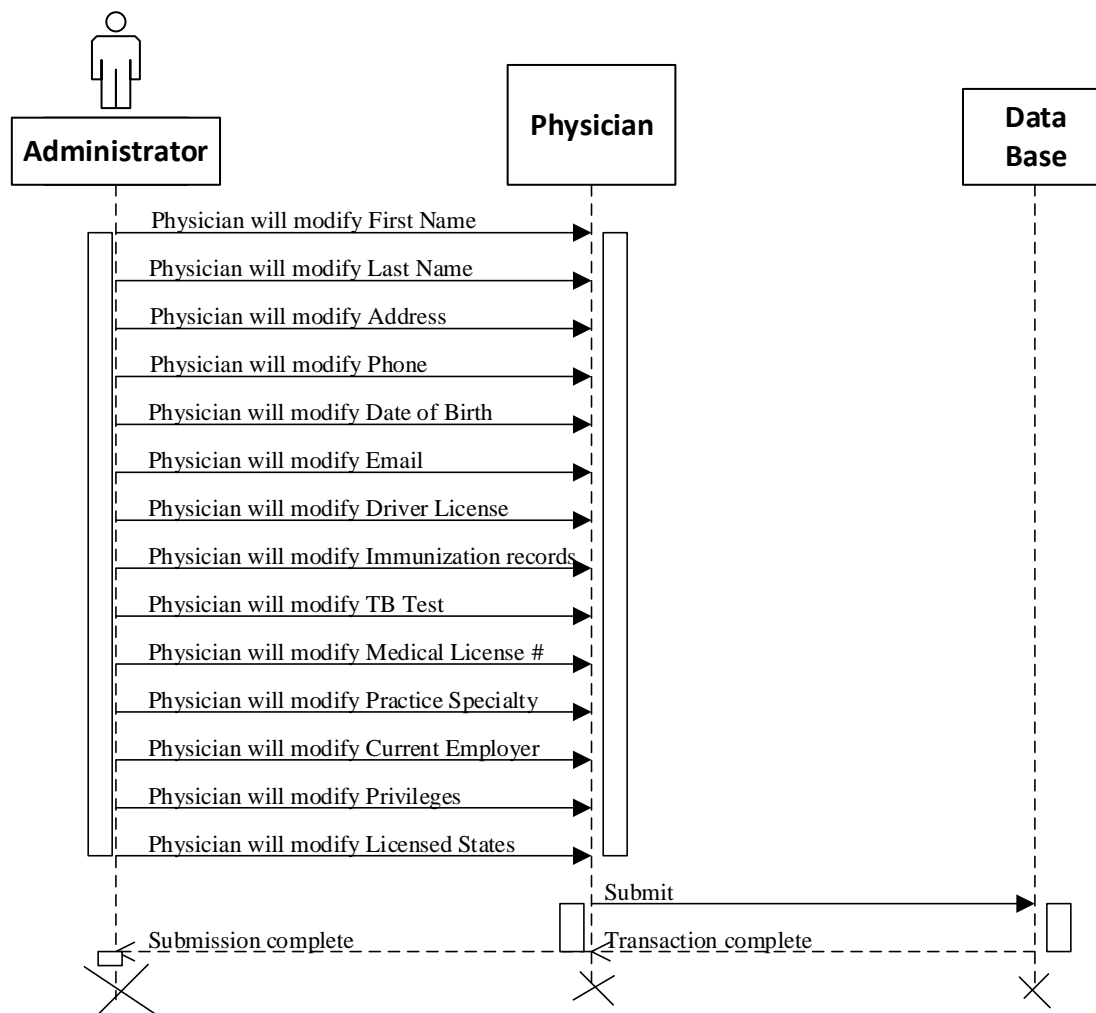
Enter Physician Data



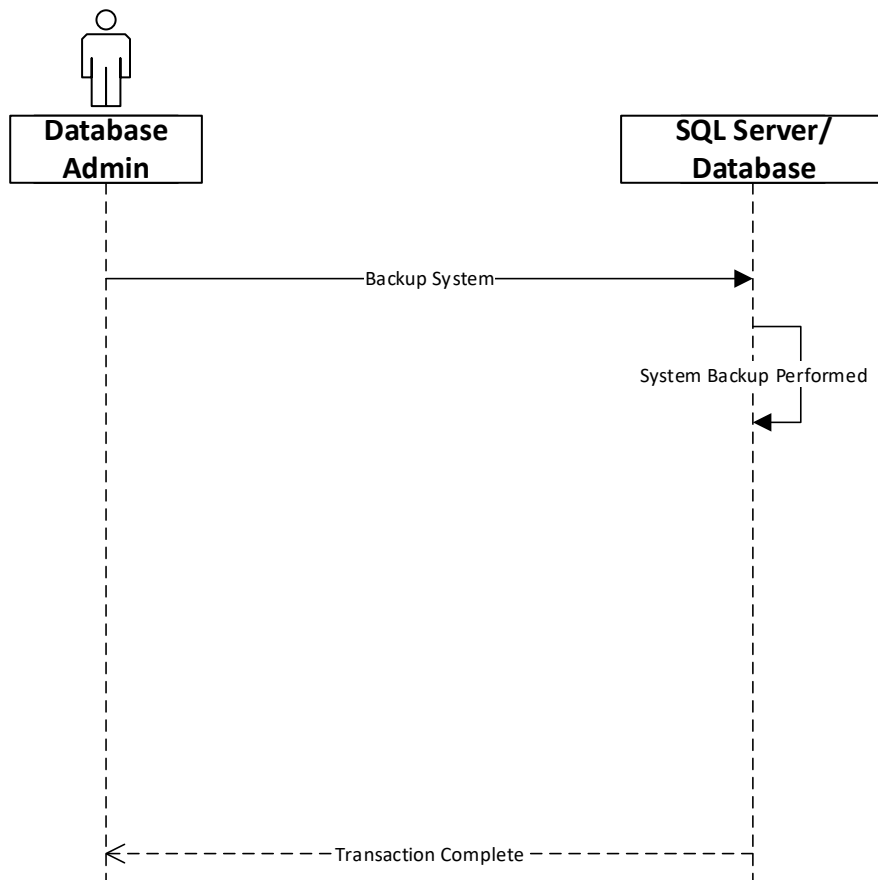
Modification of Non-Physician Clinical Data



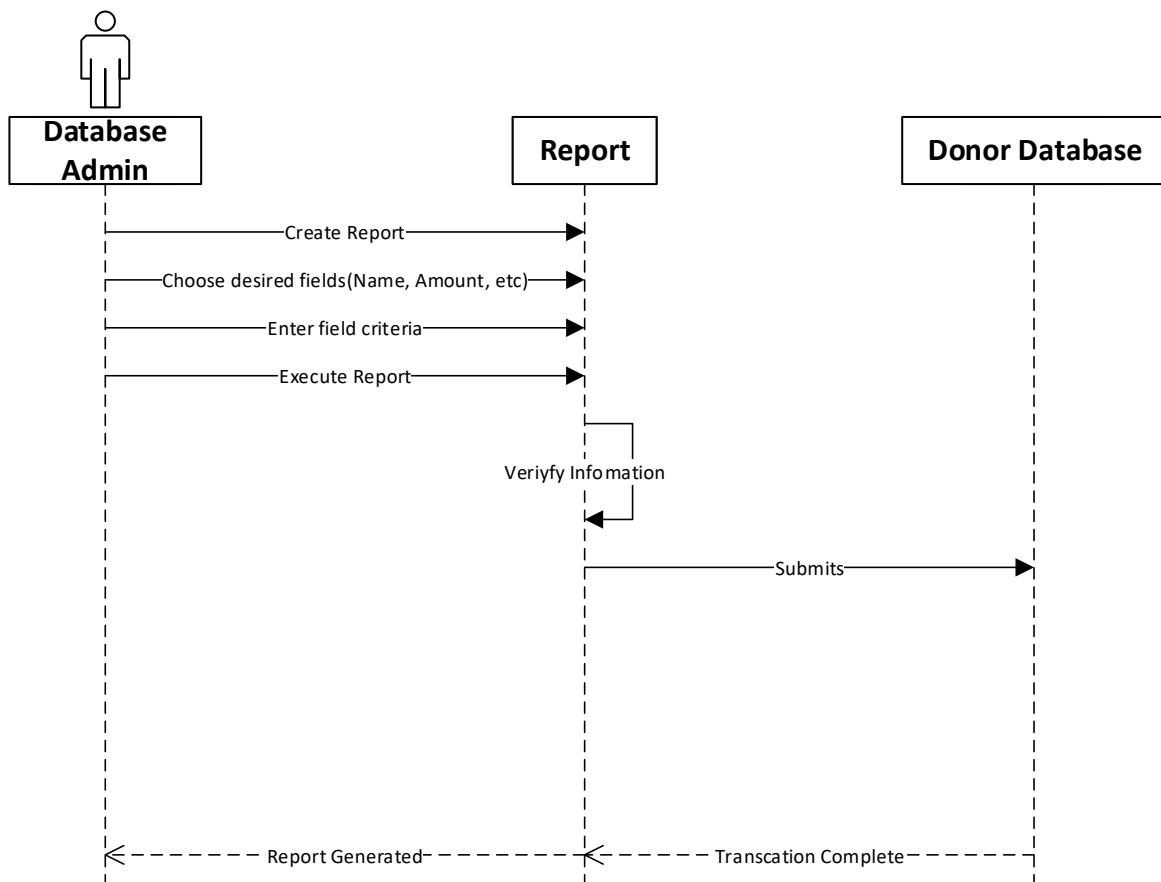
Modification of Physician Data



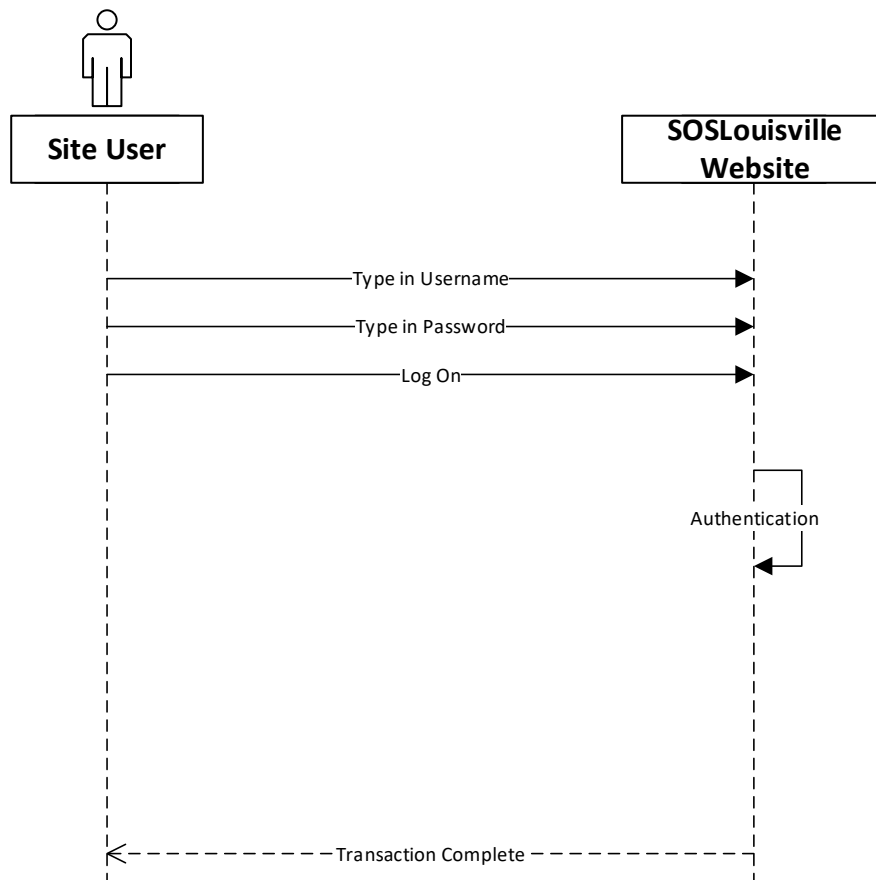
Backup



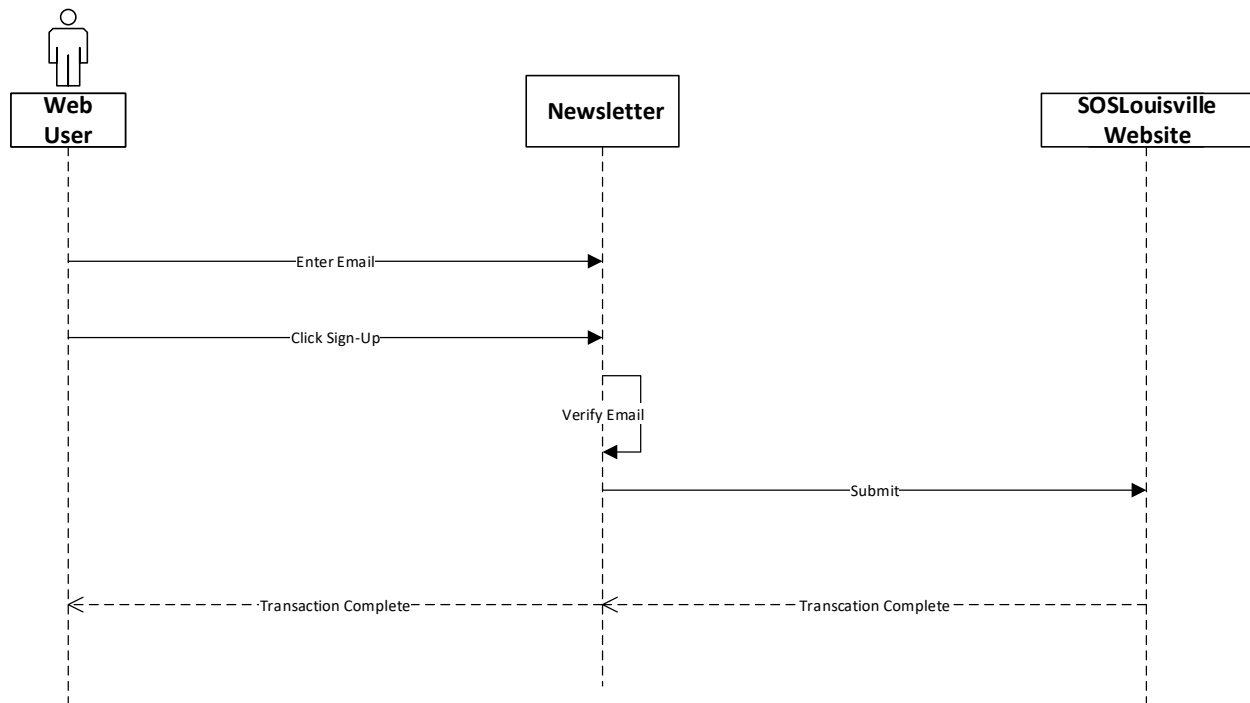
Donation Report



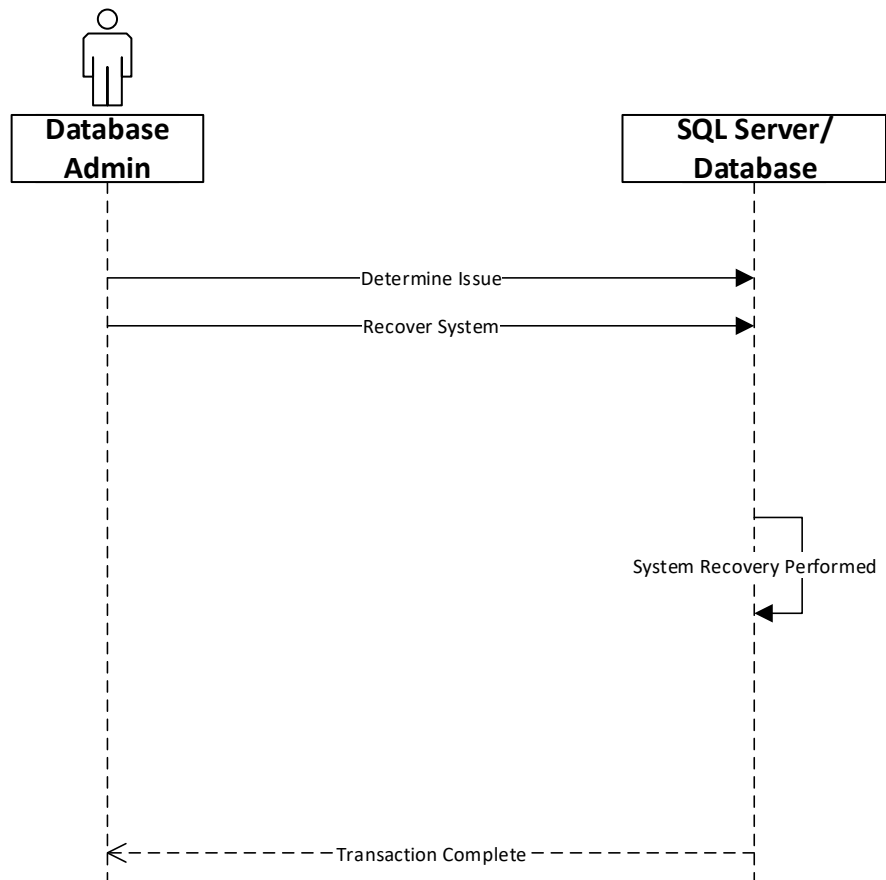
Log In



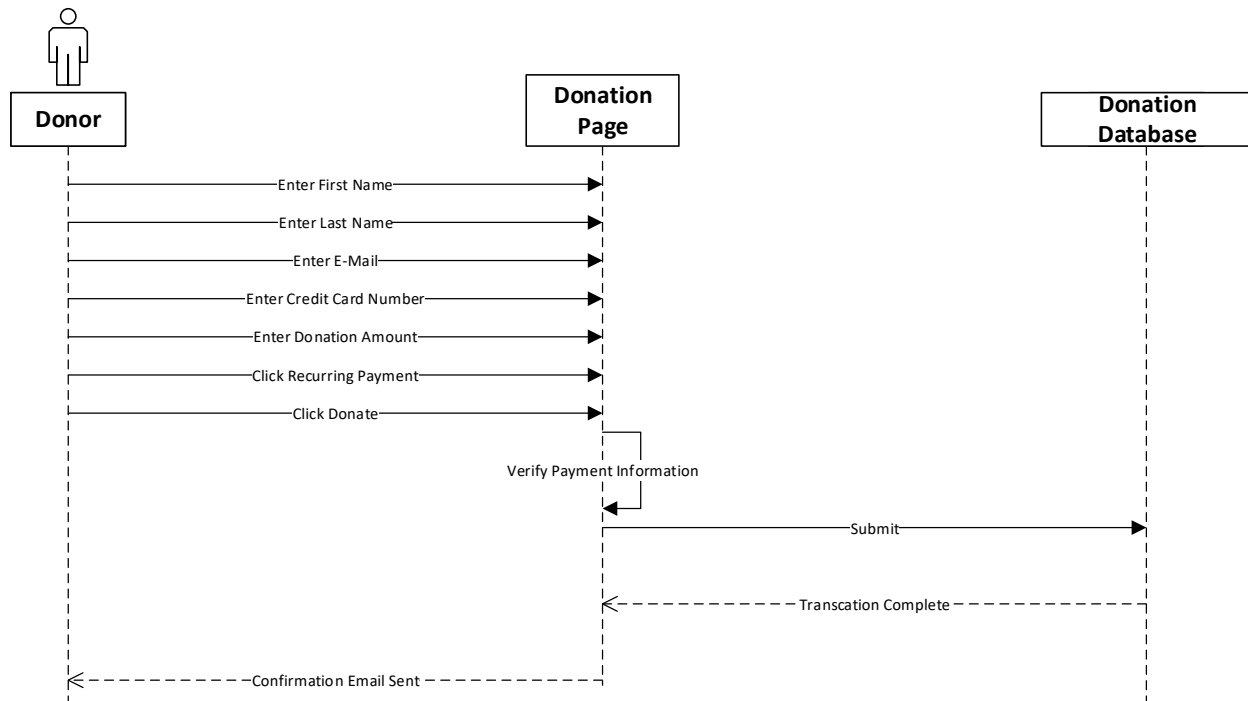
Newsletter



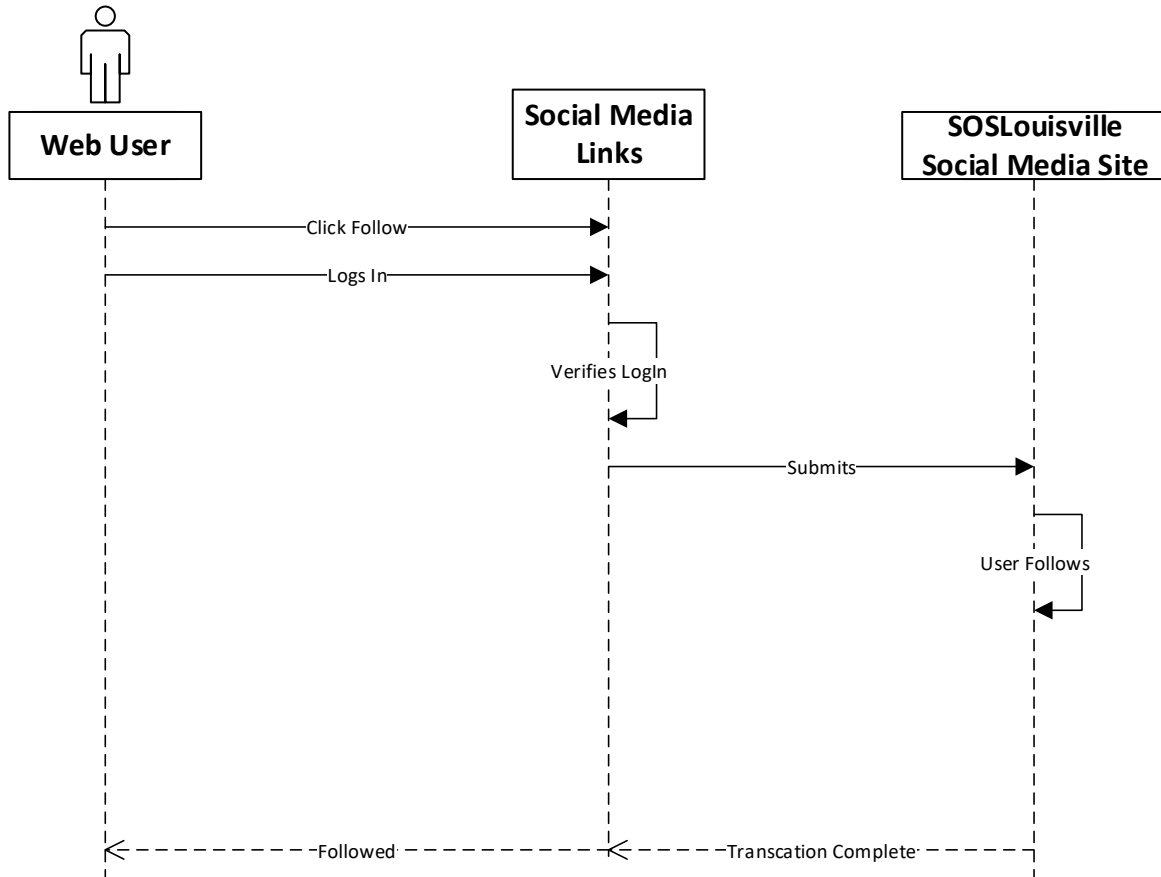
Recovery



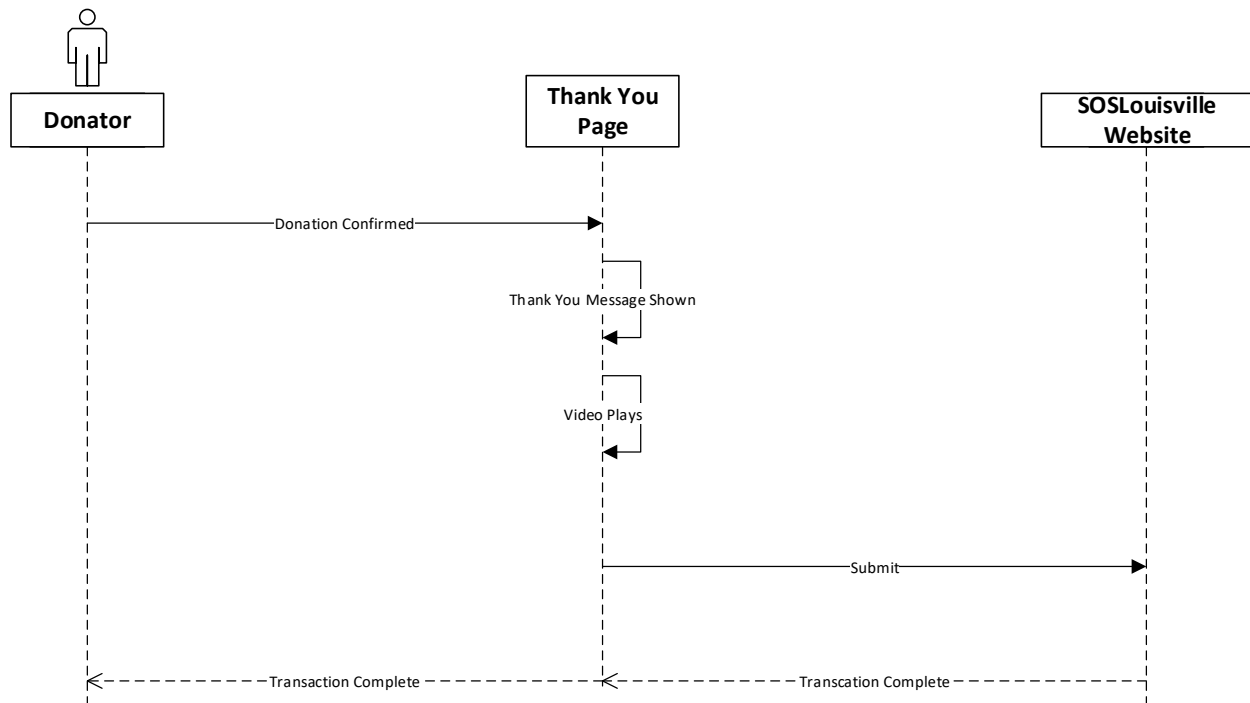
Recurring Donation



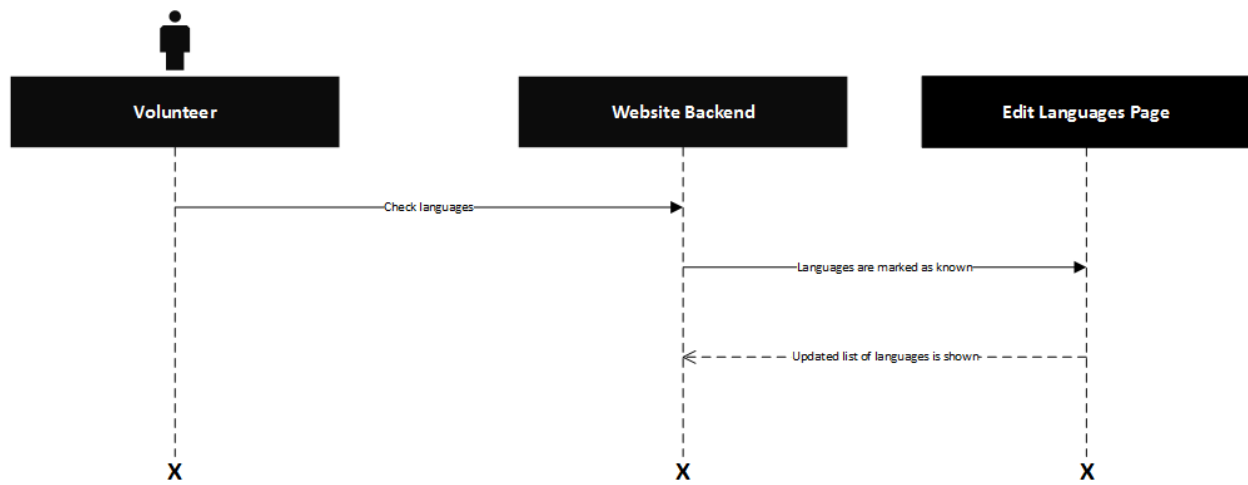
Social Media



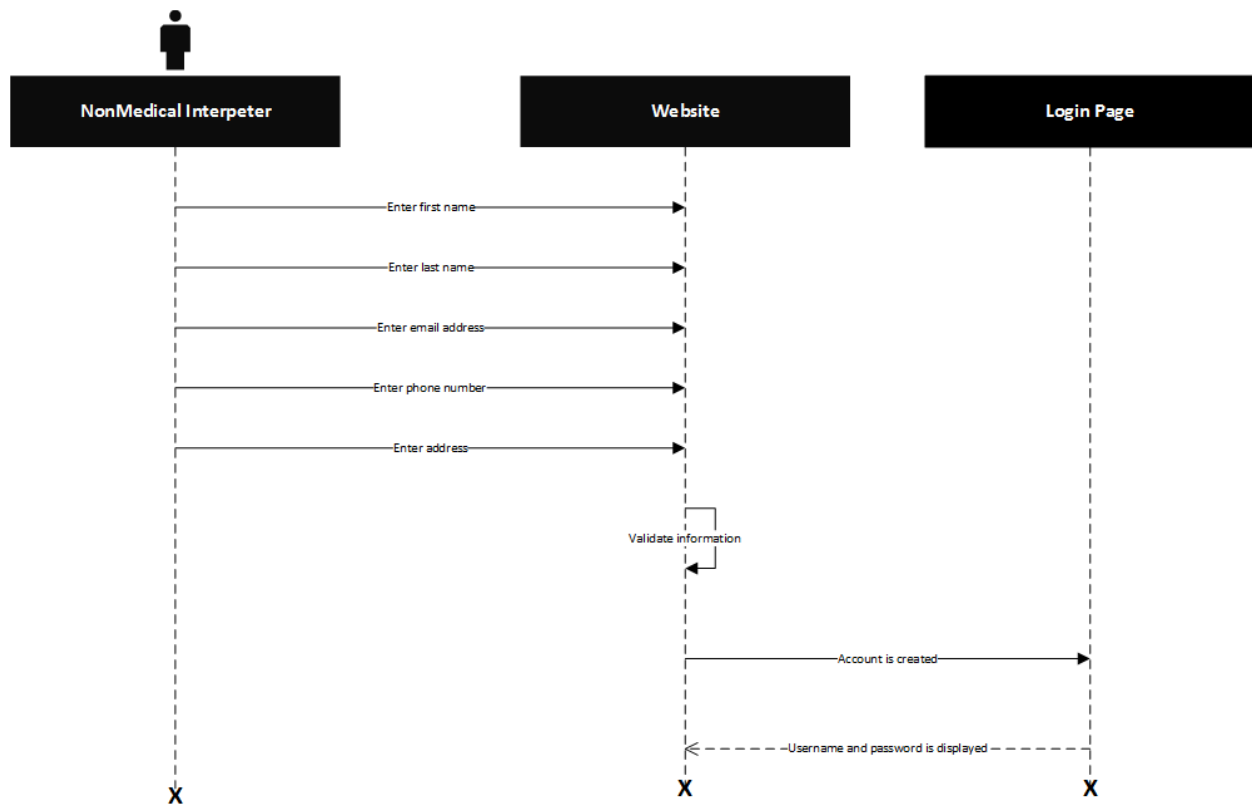
Thanking Donor



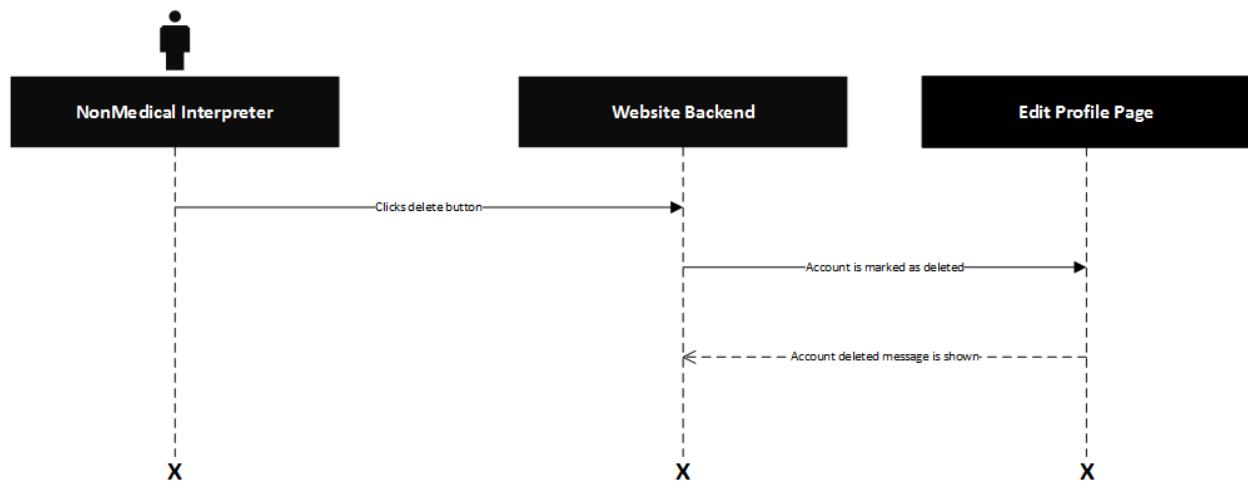
Language Translation



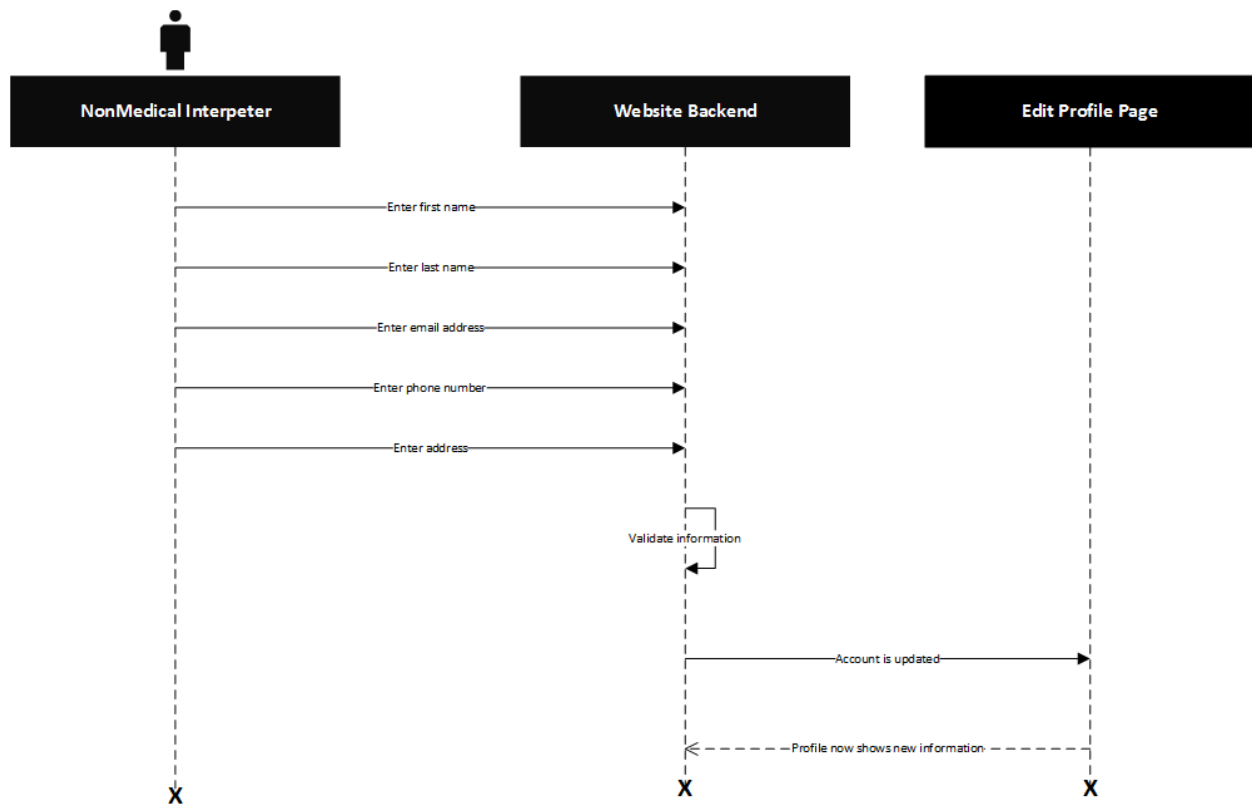
Non-Medical Interpreter Enters Data



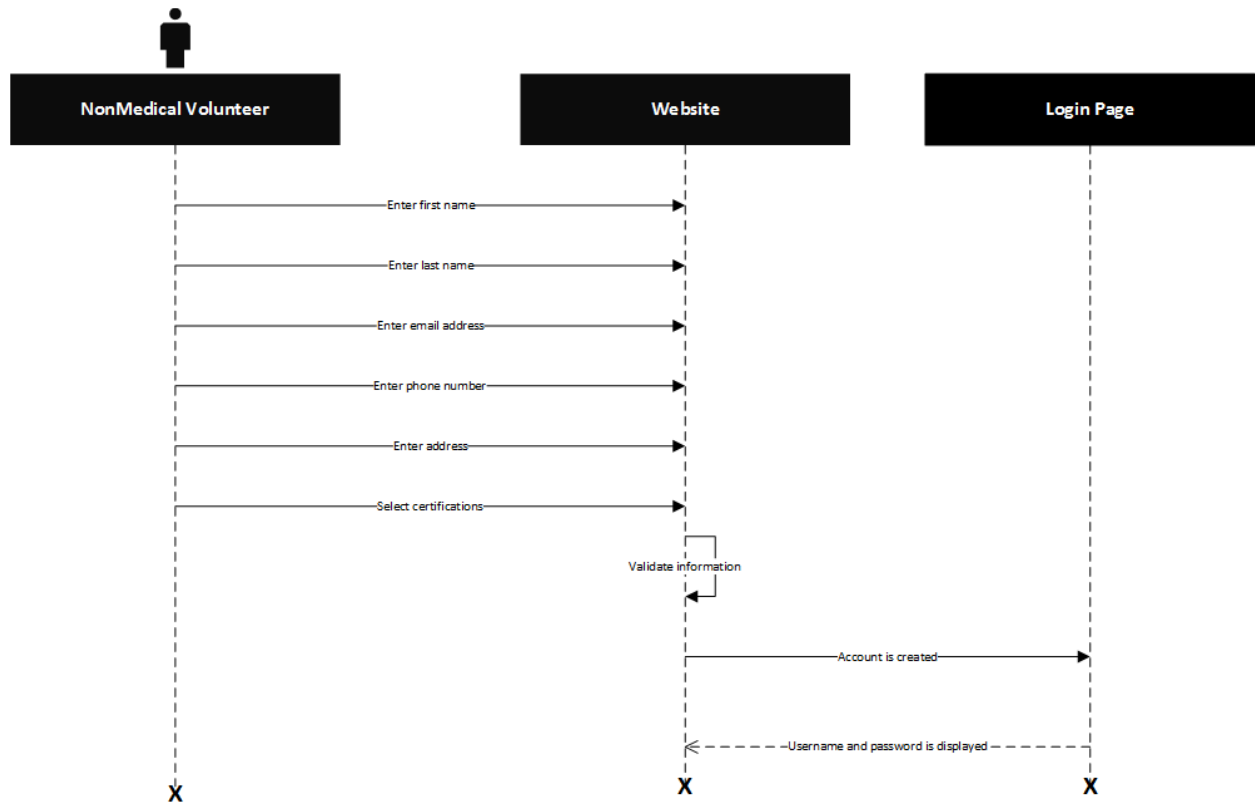
Non-Medical Interpreter Deletes Data



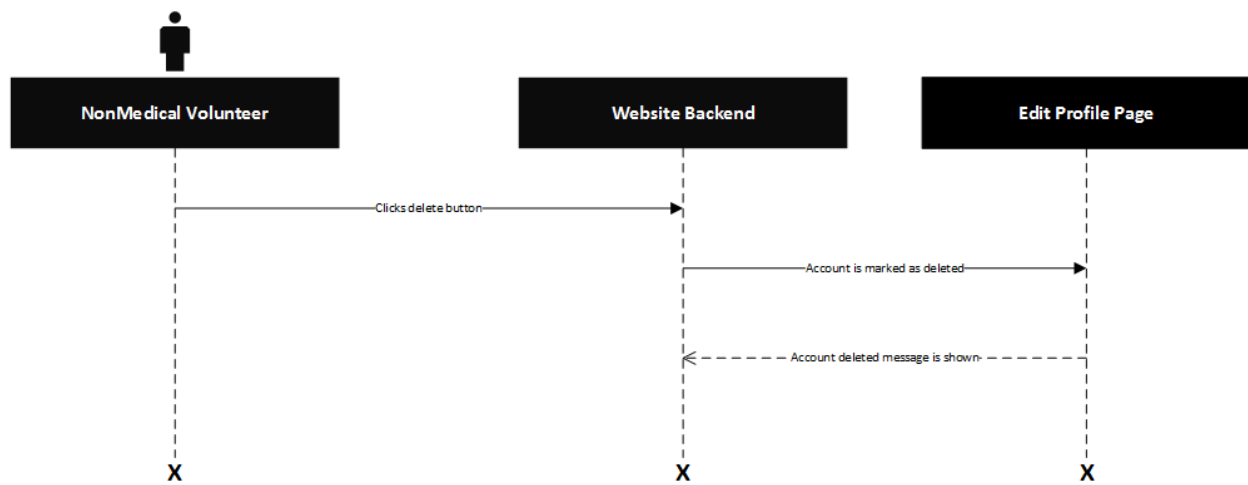
Non-Medical Interpreter Edits Data



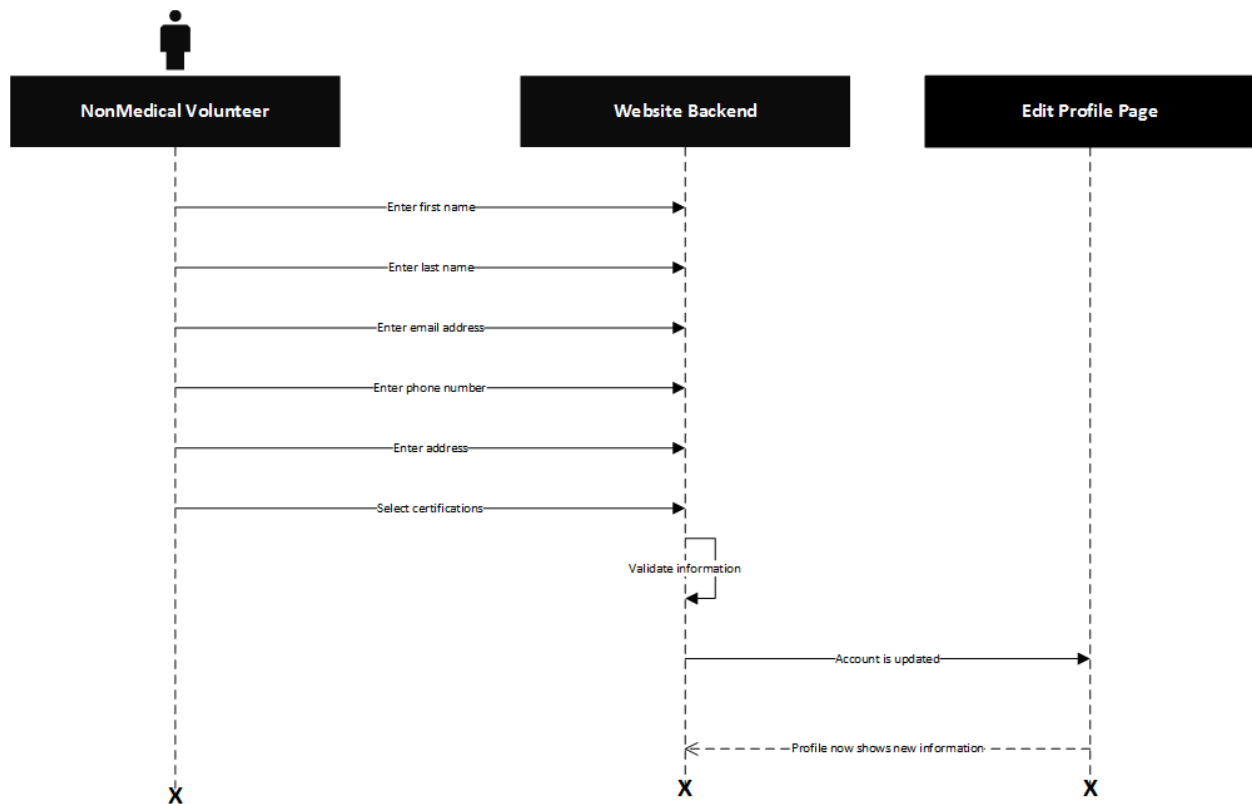
Non-Medical Volunteer Edits Data



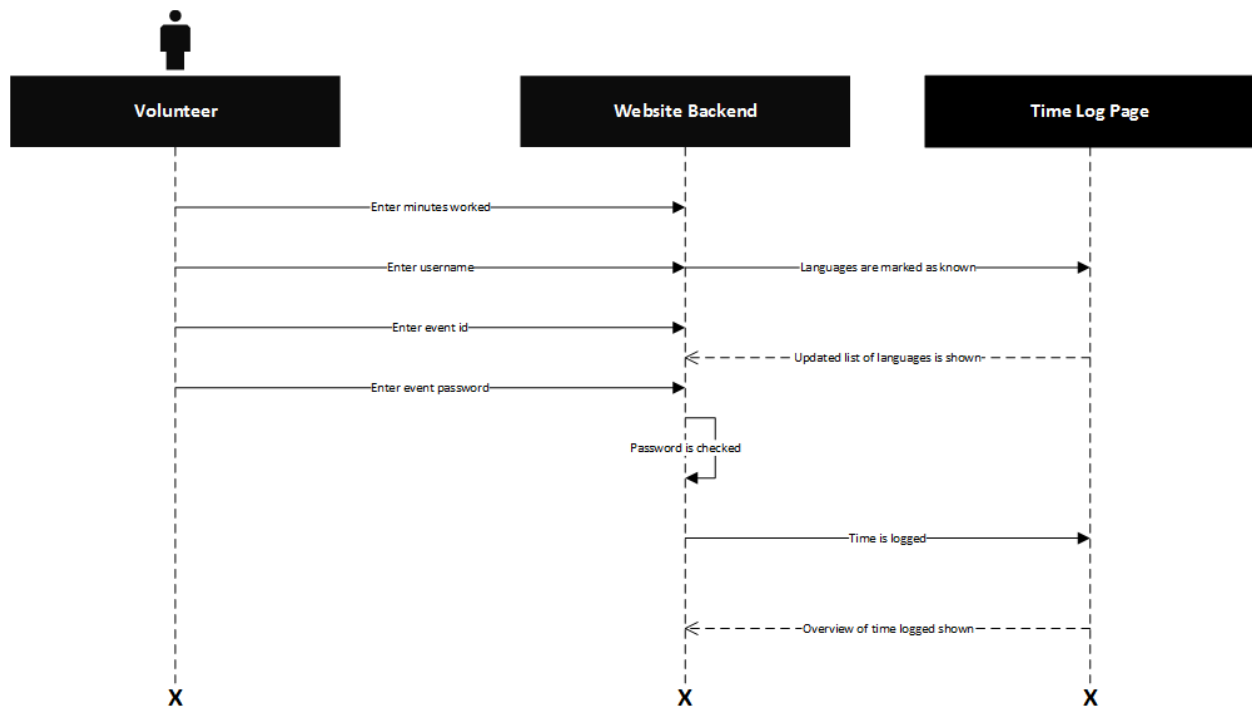
Non-Medical Volunteer Deletes Data



Non-Medical Volunteer Edits Data

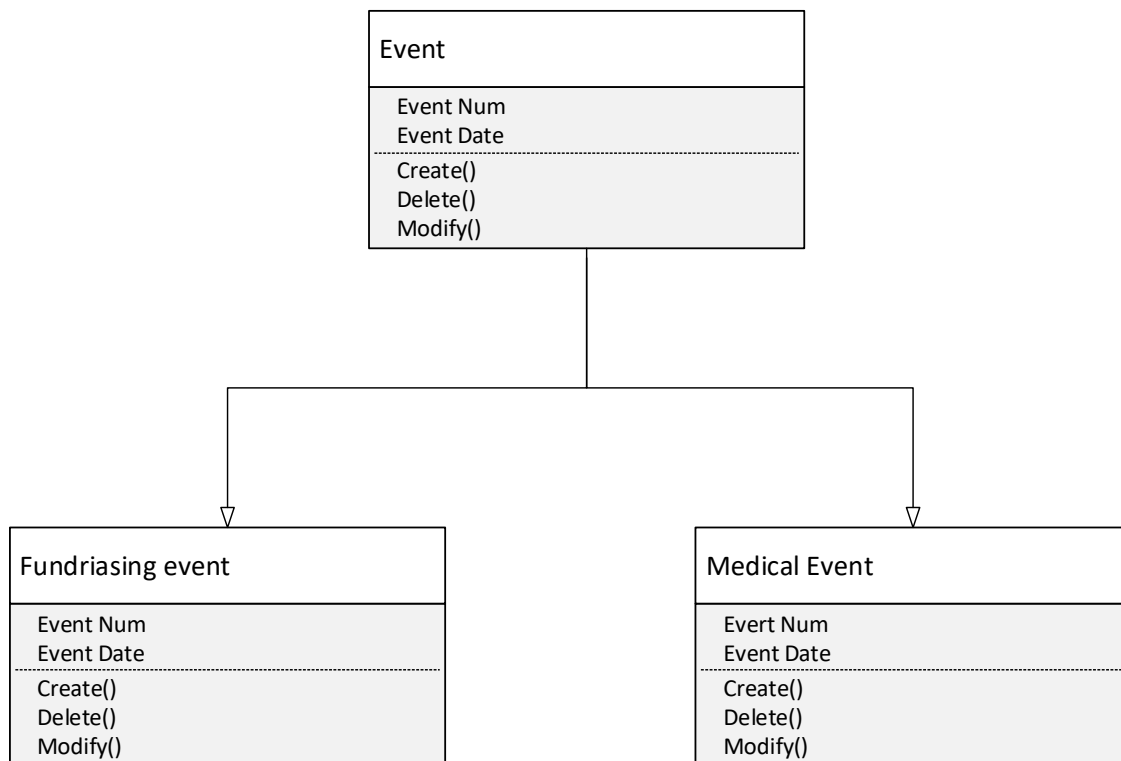
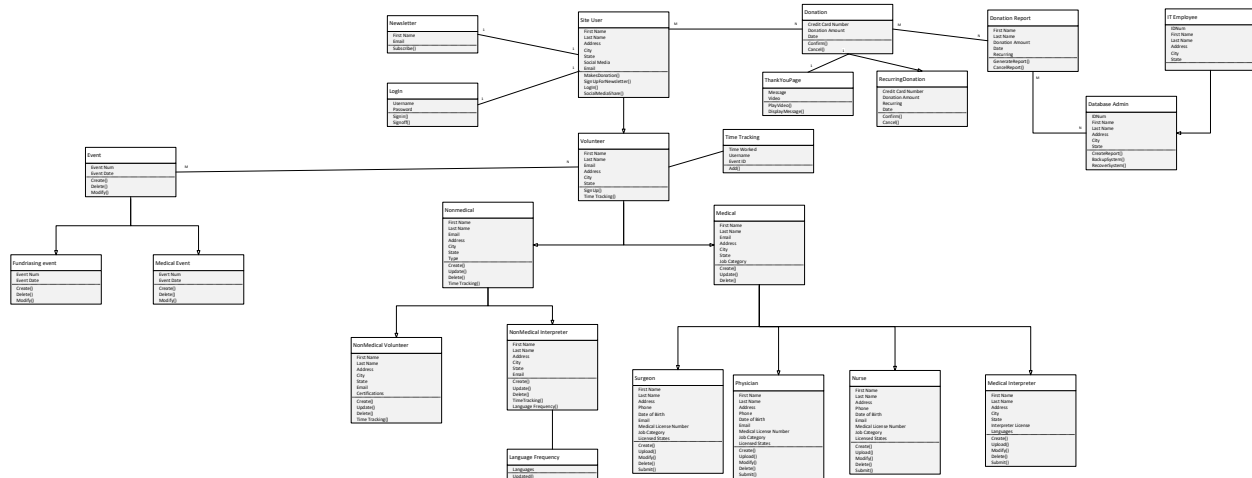


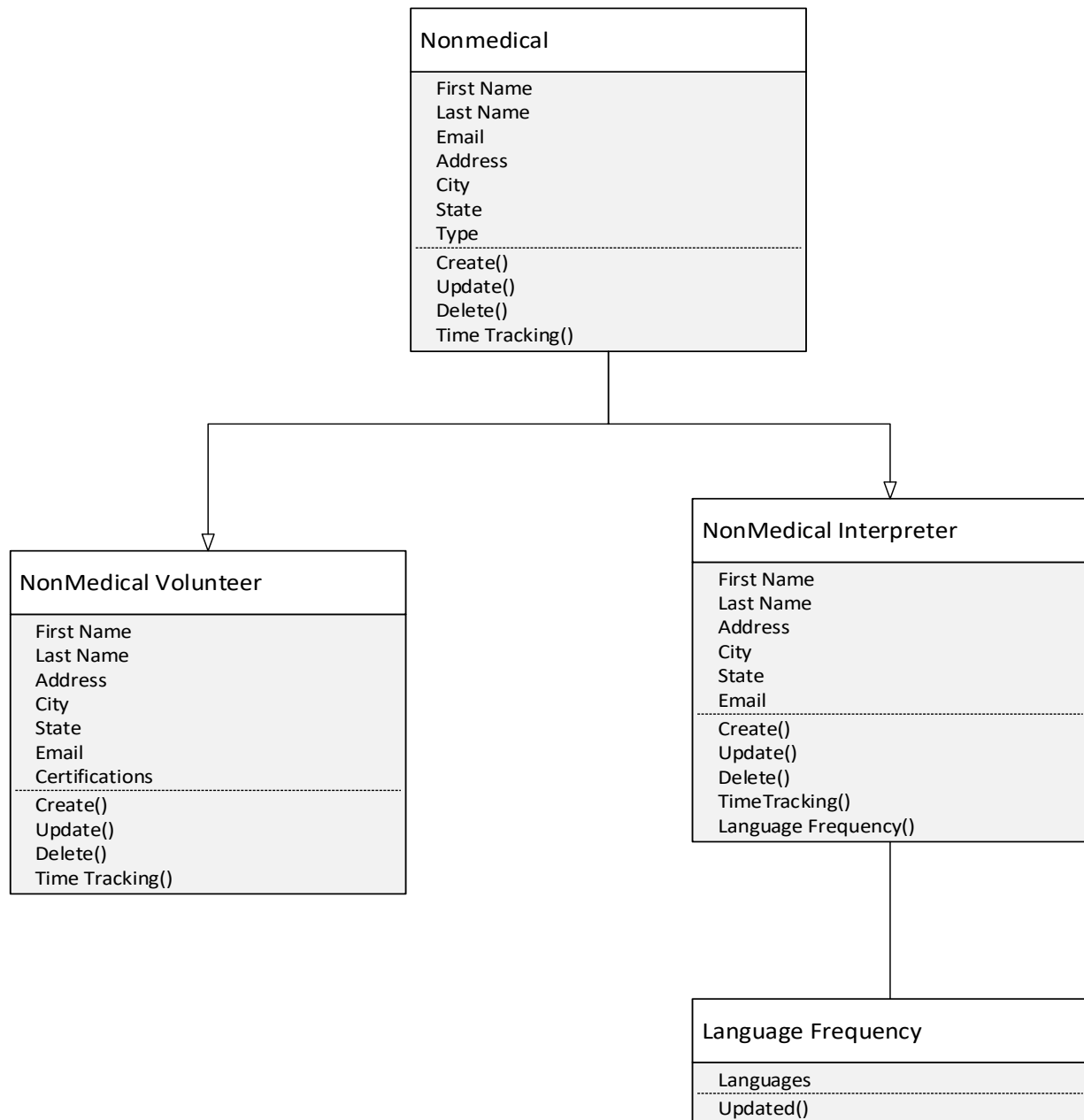
Volunteer Enters Time

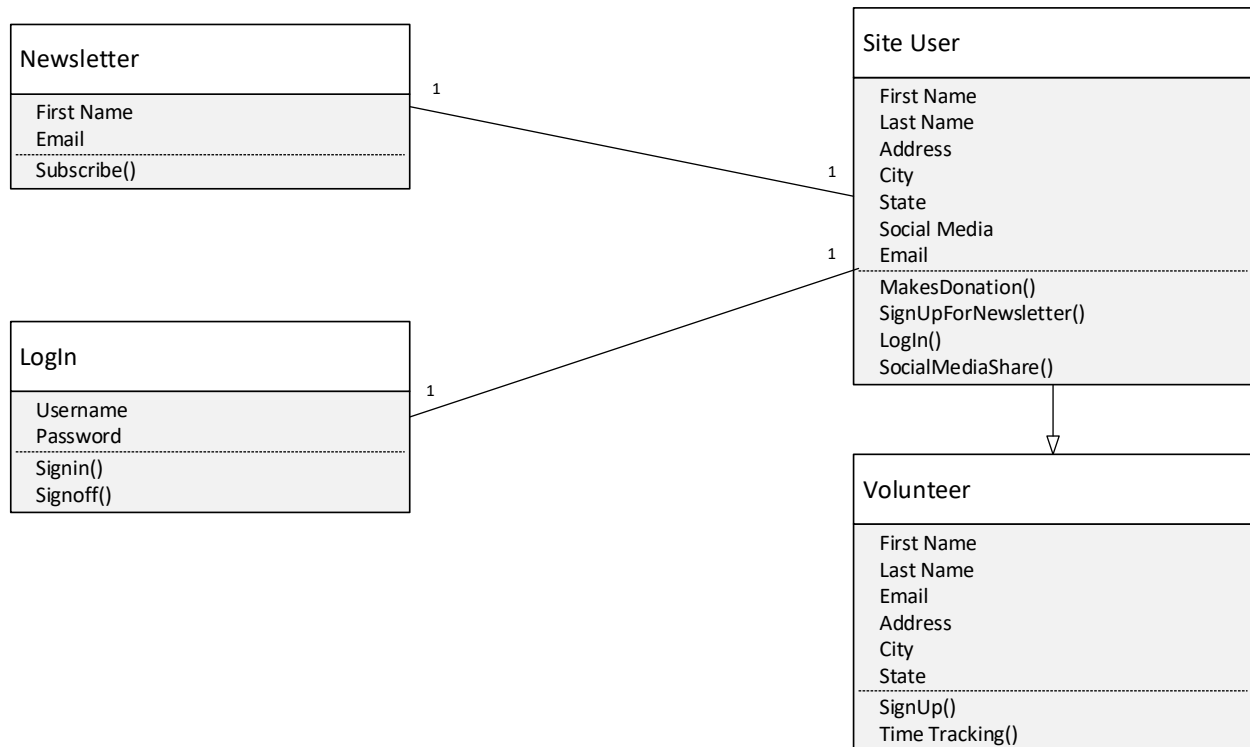
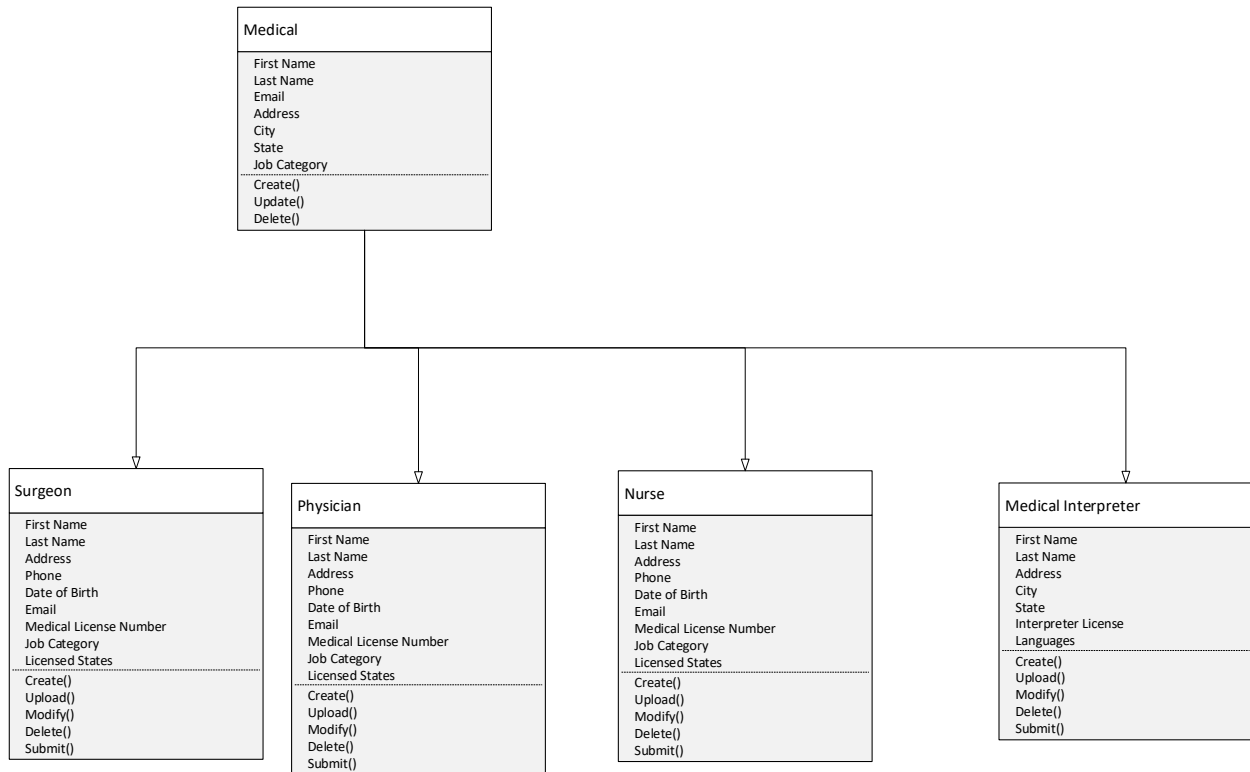


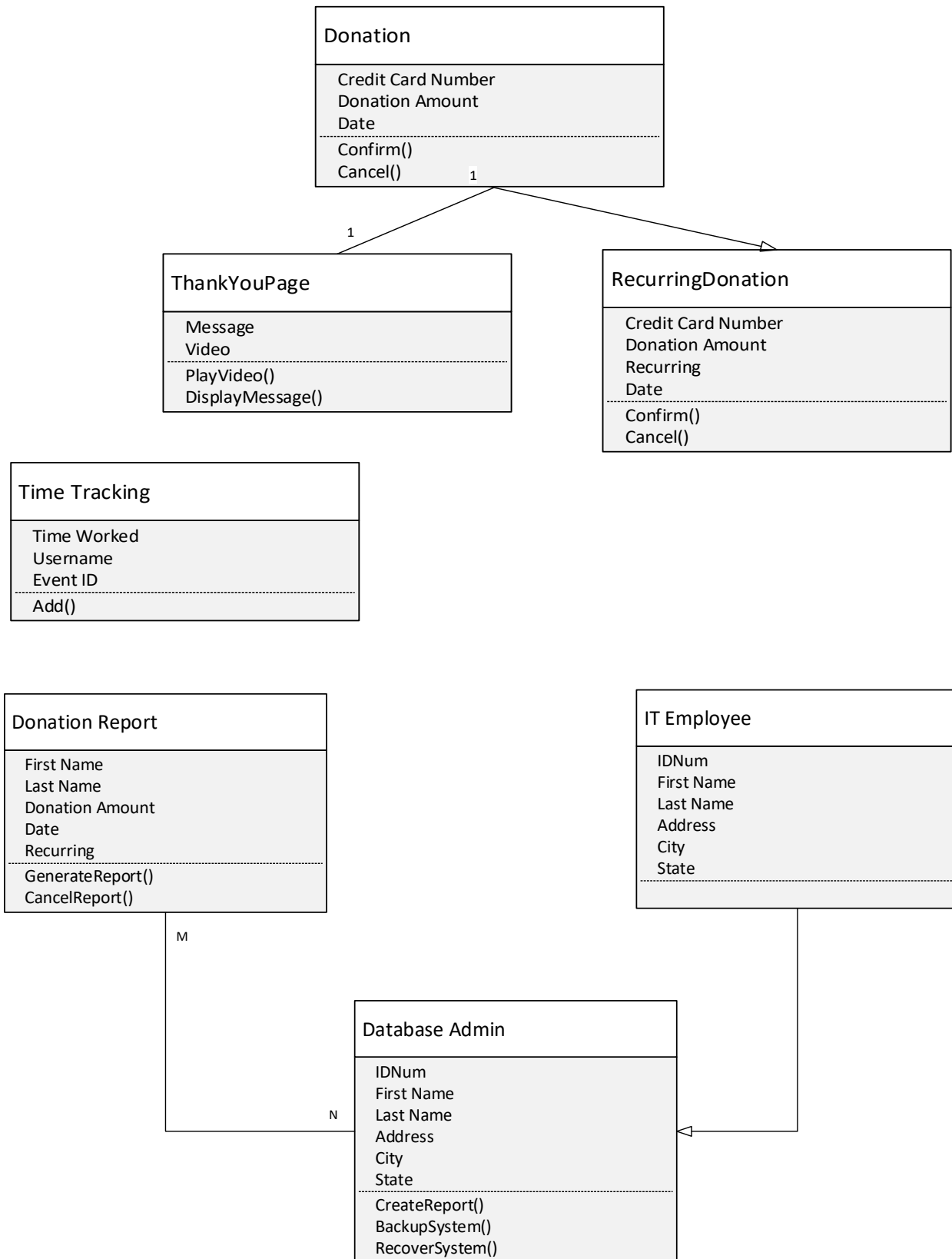
Class Diagram

The class diagram shows the relationship between all the elements of the system and the actions that each element is capable of. The class diagram was derived using verb-noun analysis. The nouns are the elements and the verbs are the actions that the elements perform. The size of the database does not allow it to be shown very legibly in its entirety, so the first image will be followed by larger images of individual sections.





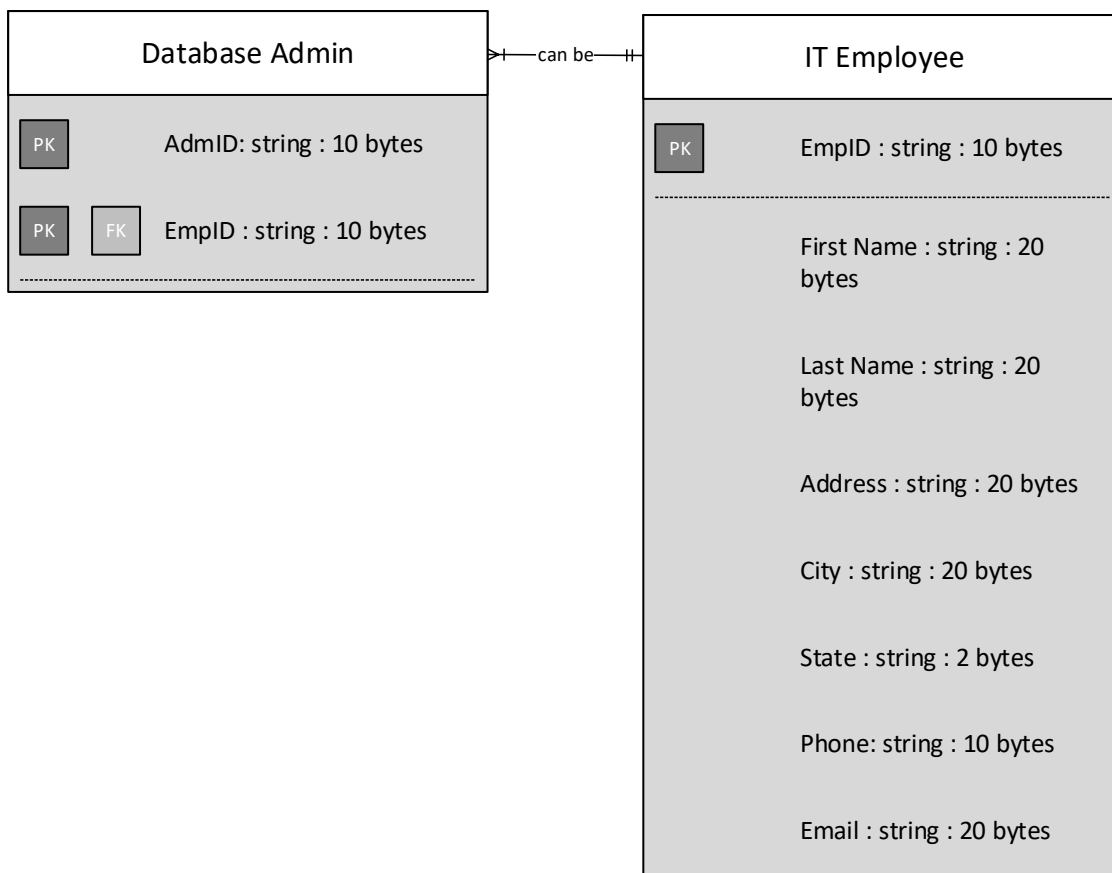
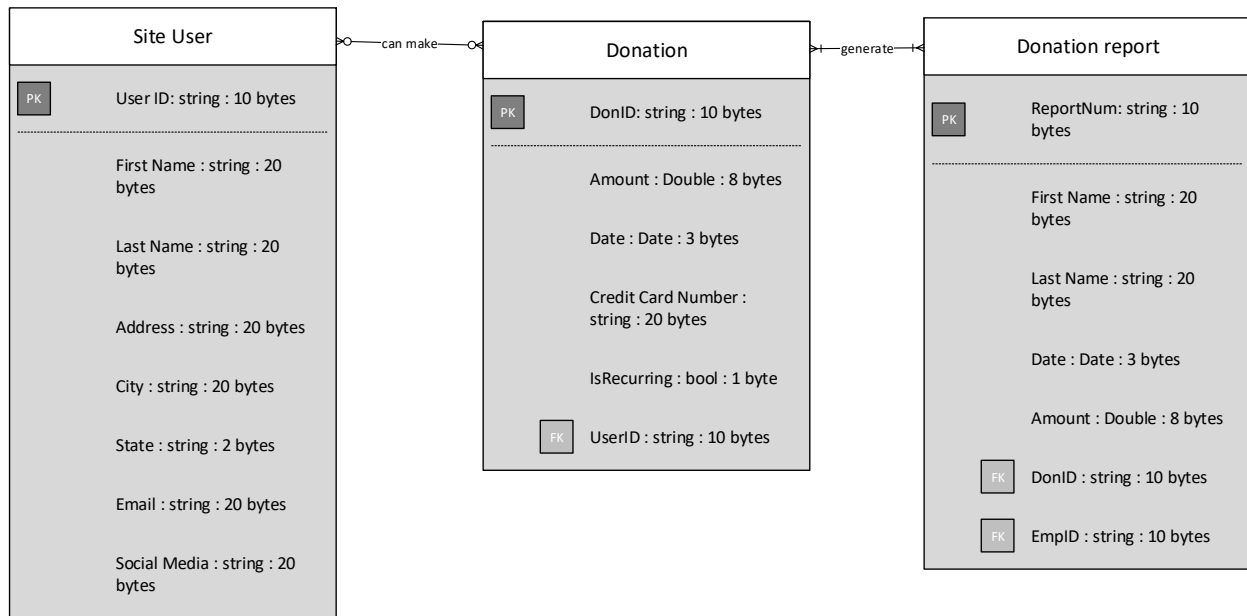


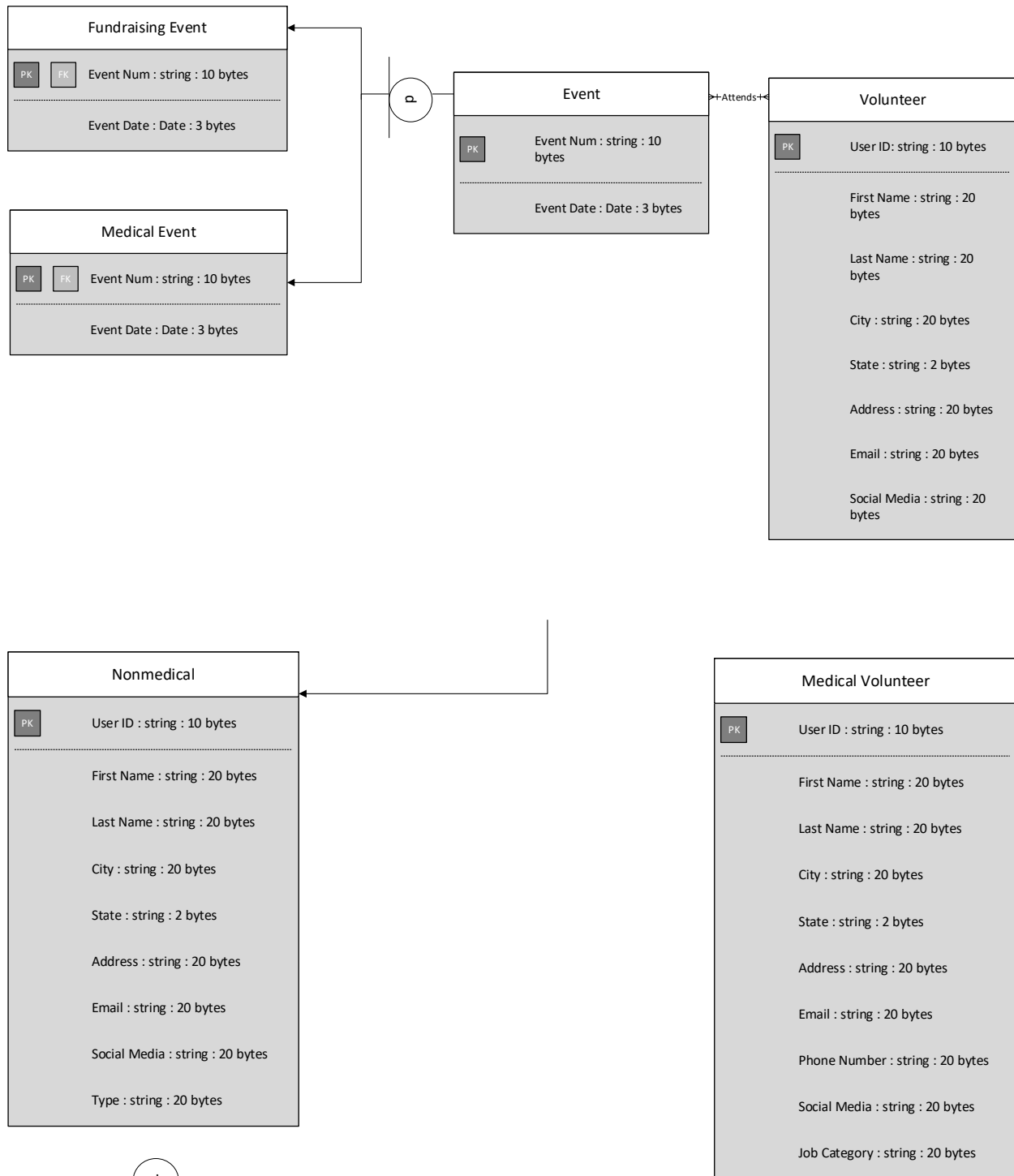


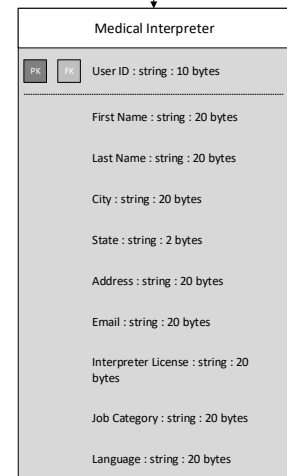
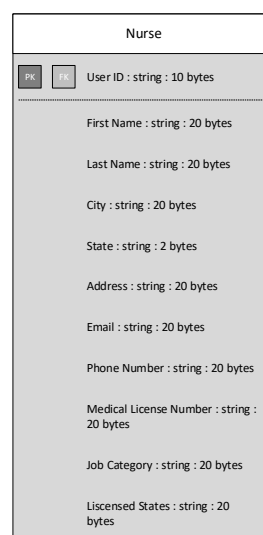
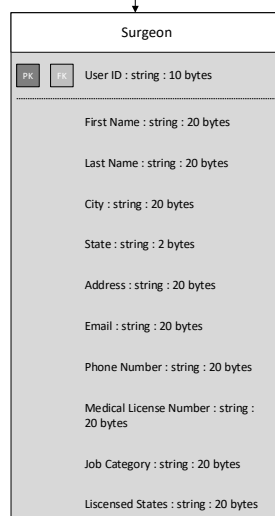
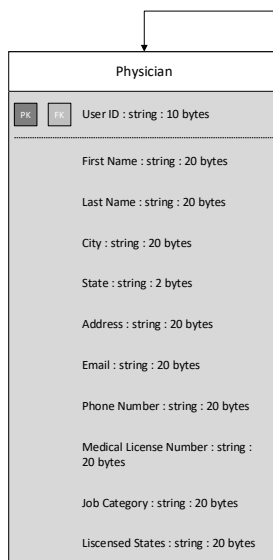
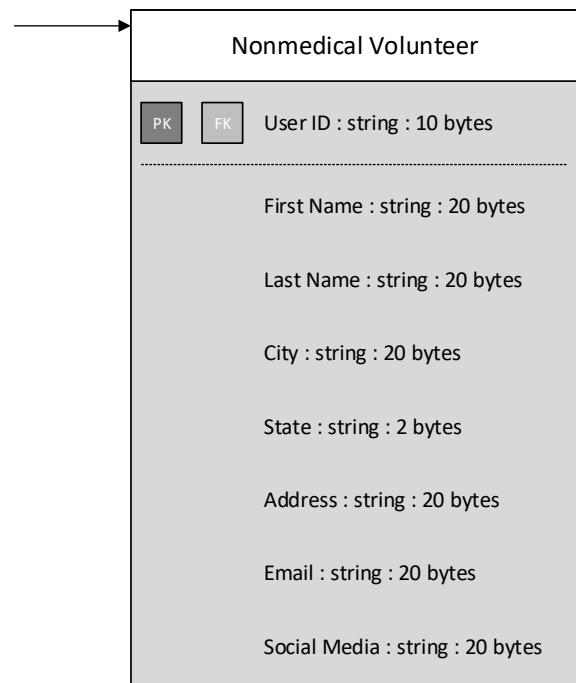
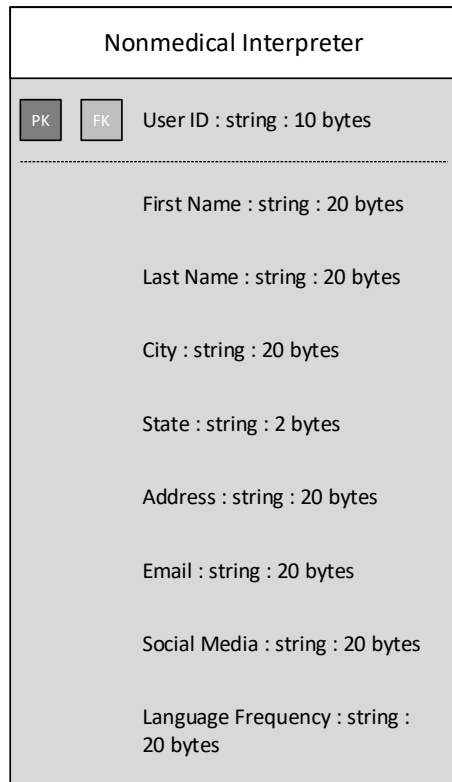
Relational Database

The database is in 3NF because each table has a primary key and is free of partial and transitive dependencies. The size of the database does not allow it to be shown very legibly in its entirety, so the first image will be followed by larger images of individual sections.



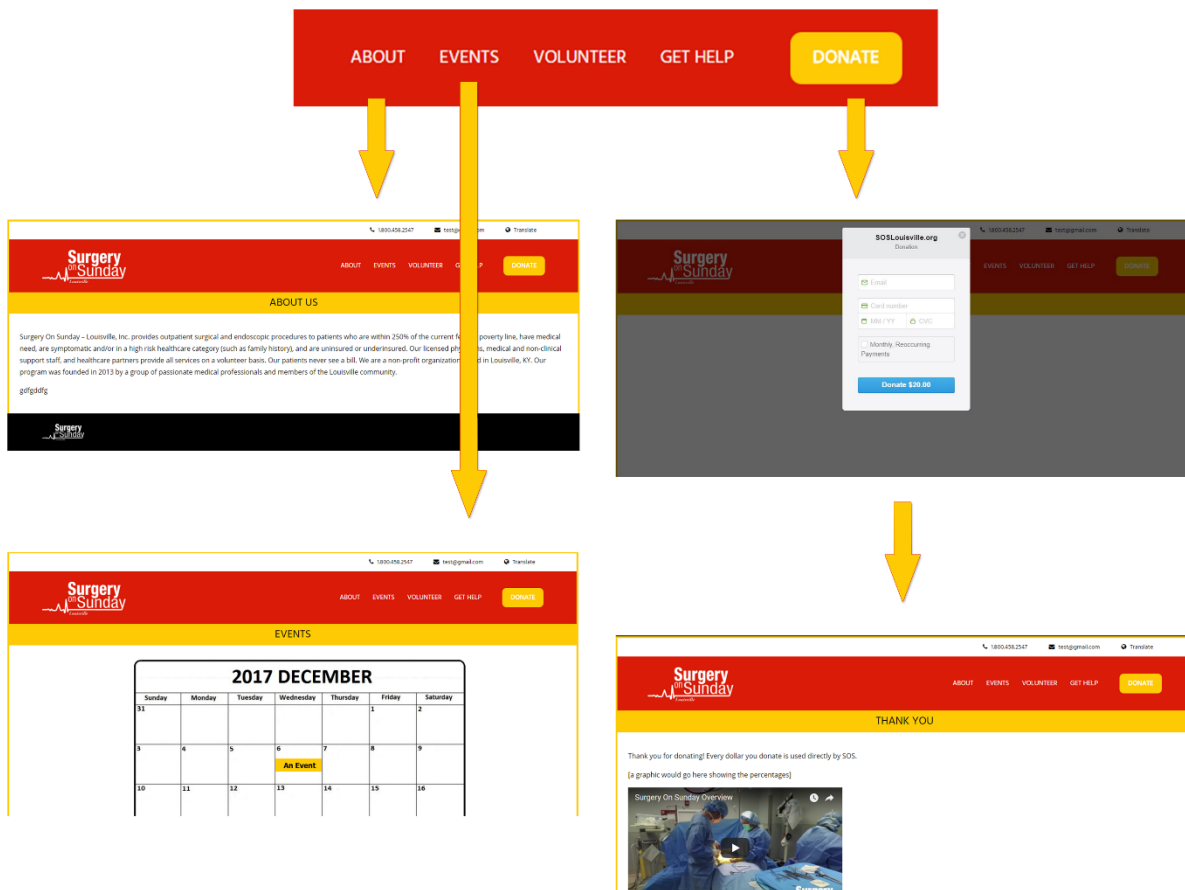




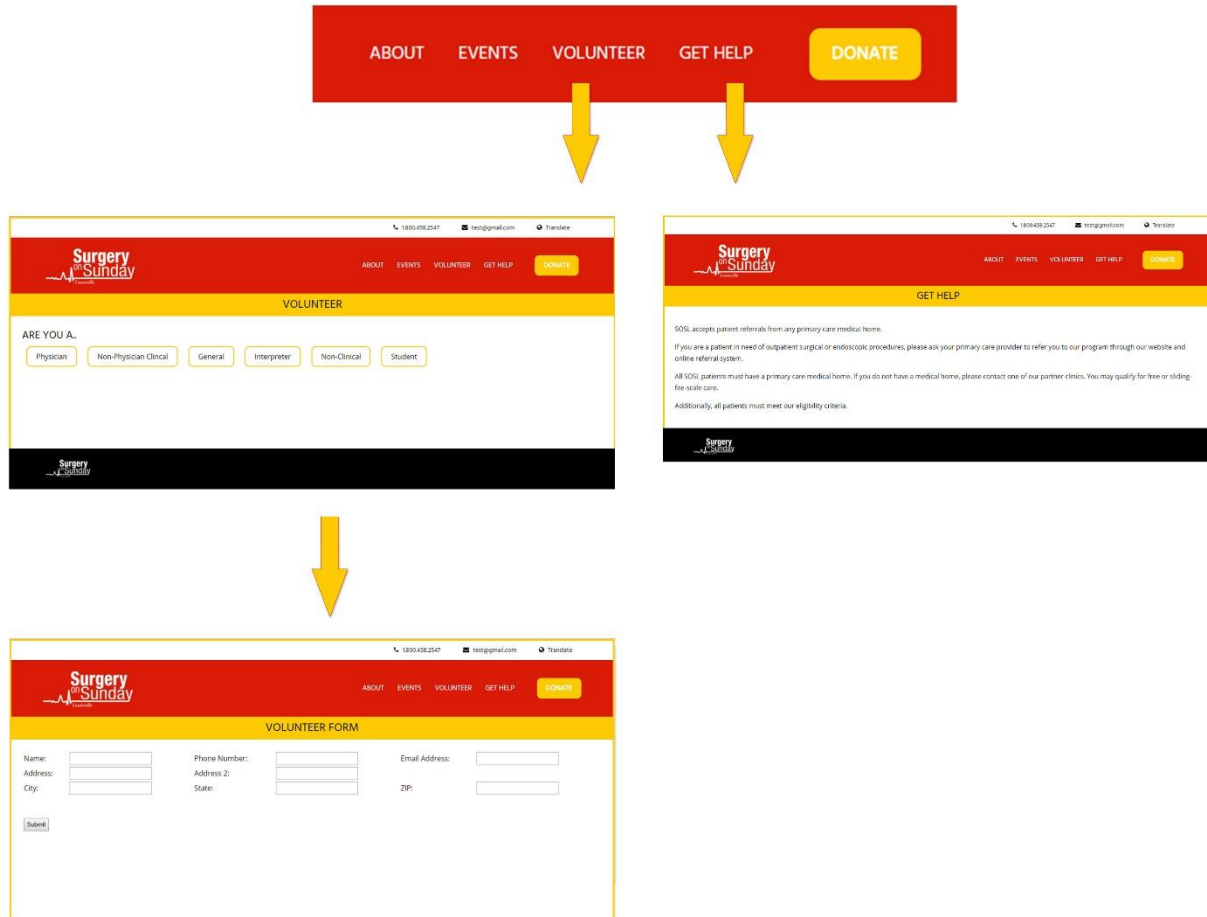


User Navigation

This diagram shows the navigation of the About, Events and Donate pages.



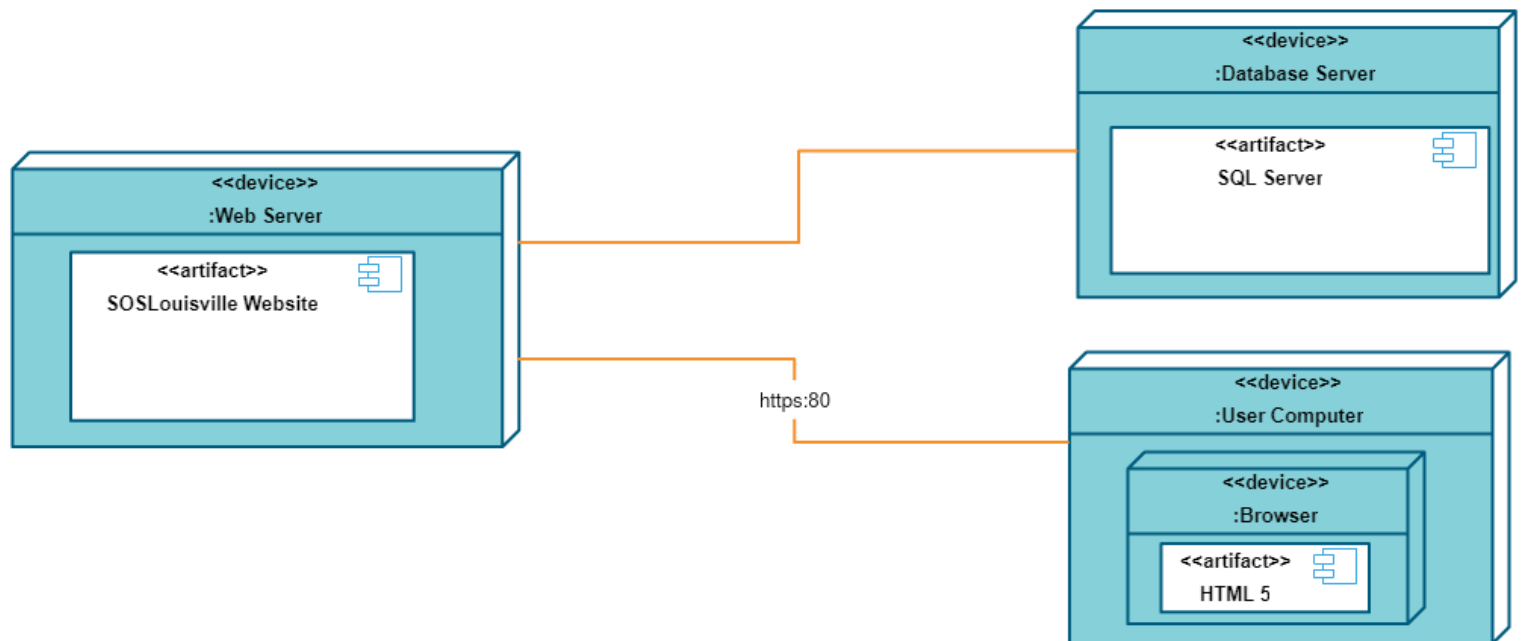
This diagram shows the navigation of the Volunteer and Get Help screens.



Physical Architecture Design:

This is a simplified deployment diagram for the SOSLouisville website. There are only a few architecture designs and decisions to be made for this system. The user will connect to the website through a browser on their computer. Any computer would work for this. The computer will access to web server, which hosts the website. When performing the processes on the website, the web server will access a database server which stores and controls all data for the volunteers, donations, etc. The decisions were made to make a simple yet effective system that would be easy to implement and to troubleshoot as well.

Deployment Diagram For a SOSLouisville Website



Security Procedures

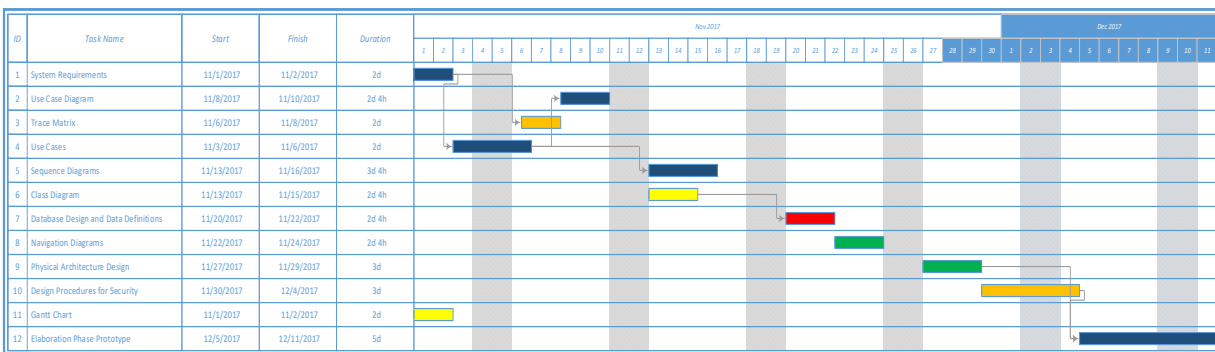
| | |
|---|--|
| Name of Procedure | Backup User Information. |
| Reason for Procedure | Protect User information in case of data deletion for any cause of system error. |
| What the procedure will achieve? | The procedure will duplicate the current system's data into a hard drive periodically. |
| How often will the procedure be performed? | Once by month. |
| Who will perform the procedure? | IT Staff. |

| | |
|---|--|
| Name of Procedure | Backup Donation Information. |
| Reason for Procedure | To have a copy of the original donation data in case of and error in system that would delete or modify information. |
| What the procedure will achieve? | The procedure will duplicate the current system's data into a hard drive periodically. |
| How often will the procedure be performed? | Once a weak. |
| Who will perform the procedure? | IT Staff. |

| | |
|---|---|
| Name of Procedure | Restore Backed up Information |
| Reason for Procedure | The procedure is to verify the data backed up is in working condition and ensure the integrity of the same. |
| What the procedure will achieve? | The procedure will restore backed up information into a test system to verify its integrity. |
| How often will the procedure be performed? | Bi-annually. |
| Who will perform the procedure? | IT Staff. |

Gantt Chart

The Gantt is a way to represent the schedule of completing steps of the project. Gantt Charts were created for all the stages of the project. Each chart shows the tasks and the estimated duration required for the task. The tasks are divided into team members and represented with color coded bars. Tasks may be dependent on other tasks in the iteration. This means that one or more tasks cannot be started until the prior task is complete. The task dependency is represented with arrows showing which steps must be work on first.



All
 Karl
 Carlos
 Nick
 Nathan

Prototypes

This is the donor/donation prototype. This is where donors will enter, modify or delete their information and make or cancel donations.

Donations

Add New Donation

Type: Digital Donor: Billy Bob Third Party ID:

[Add](#)

Donations

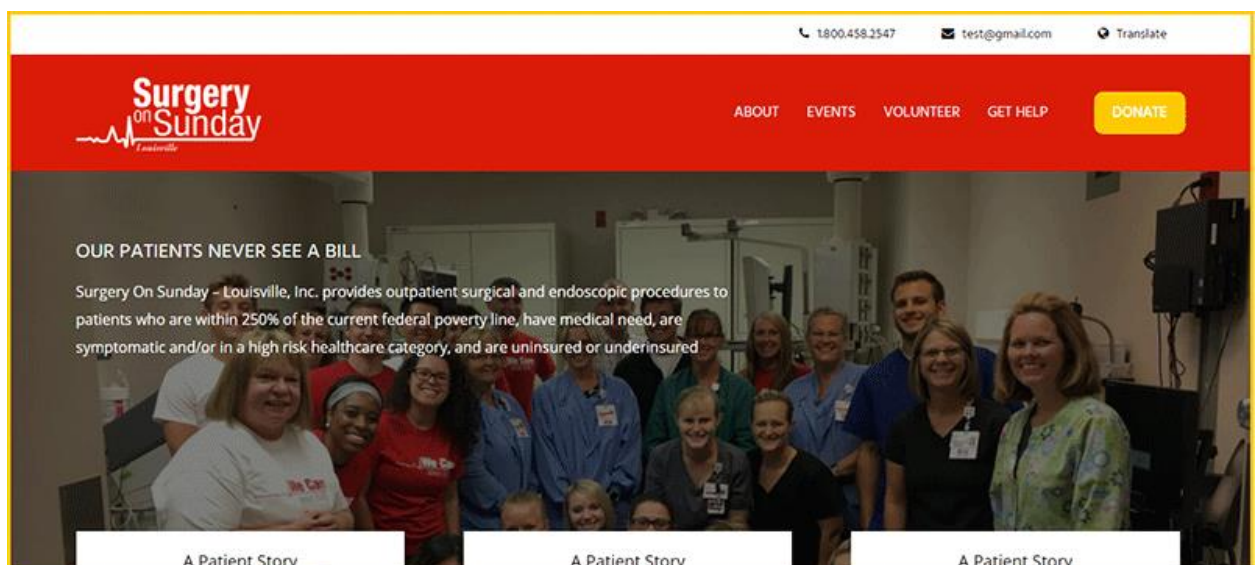
| | | | |
|----|-----------|---------------------|----------------|
| ID | Donor | Date | Third Party ID |
| 1 | Billy Bob | 2017-10-01 21:36:15 | 1545454 |

| | | | |
|----|-------|------|----------------|
| ID | Donor | Date | Third Party ID |
|----|-------|------|----------------|

This is the prototype for the volunteer information. It has an option for each individual type of volunteer to link to a form where they can enter, modify or delete their information, and they can upload supporting documents to show they have current medical licenses.


The screenshot shows the top navigation bar of the Surgery on Sunday Louisville website. It includes the phone number 1.800.458.2547, the email test@gmail.com, and a Translate button. The main header is red with the Surgery on Sunday Louisville logo on the left and navigation links (ABOUT, EVENTS, VOLUNTEER, GET HELP) and a yellow DONATE button on the right. Below the header is a yellow banner with the word VOLUNTEER. The main content area is white and contains the text "ARE YOU A.." followed by four buttons: Doctor, Translator, Nurse, and Anesthesiologist. A black footer bar at the bottom contains the Surgery on Sunday Louisville logo.

This view of the prototype shows where the patient story will be displayed. In the right-hand corner, the website visitor has the option to translate to another language.



This view of the prototype shows when a non-medical volunteer (or interpreter) is entering their data.

1800.458.2547test@gmail.comTranslate



ABOUTEVENTSVOLUNTEERGET HELP

DONATE

VOLUNTEER FORM

Name:

Address:

City:

Phone Number:

Address 2:

State:

Email Address:

ZIP:

Submit

This view of the prototype is when a non-medical volunteer (or interpreter) is editing their data

Surgery on Sunday

10New

Howdy, admin

Dashboard

Posts

SOS

SOS

Donations

Donation Types

Donors

Facilities

Facility Types

Roles

Role Types

Volunteers

Media

Pages

Comments

Appearance

Plugins 1

Users

Volunteers

Edit Volunteer

Name: John Smith

Type: Physician

Address: 1234 Main Street

Address 2: Apt 2

City: Louisville

State: KY

ZIP: 40206

Age: 55

Email: jsmith@gmail.com

Phone: 5025482495

Update

This view of the prototype is when a non-medical volunteer (or interpreter) is deleting their data

Volunteers 1 item

| ID | Type | Name | Age | Address 1 | Address 2 | City | State | ZIP | Phone | Email |
|----|---------|---|-----|------------------|-----------|------------|-------|-------|------------|------------------|
| 1 | Medical | John Smith | 55 | 1234 Main Street | Apt 2 | Louisville | KY | 40206 | 5025482495 | jsmith@gmail.com |
| | | Edit Delete | | | | | | | | |
| ID | Type | Name | Age | Address 1 | Address 2 | City | State | ZIP | Phone | Email |

This view shows a volunteer entering their time logged for an event

1.800.458.2547test@gmail.comTranslate

Surgery
on Sunday
Louisville

ABOUTEVENTSVOLUNTEERGET HELP

DONATE

TIME TRACKING

Please enter your time. When ready, have the event organizer come by and enter their event password

Account #ID: Event #ID:

Time Logged: (minutes) Event Password:

Surgery
on Sunday

This view of the prototype shows the partner clinics on a map.

Some news content would generate this would part from blog posts and would link to news articles and the news archive.

[Read More ▶](#)

Some news content would generate this would part from blog posts and would link to news articles and the news archive.

[Read More ▶](#)

OUR PARTNER CLINICS



Surgery
Sunday

Backup

HOME

LOGOUT

CPANEL 11

Backup

Download a zipped copy of your entire site or a part of your site that you can save to your computer. When you backup your website, you have an extra copy of your information in case something happens to your host. For more information, read the [documentation](#).

Full Backup

A full backup creates an archive of all of your website's files and configuration. You can use this file to move your account to another server or to keep a local copy of your files.

Download a Full Website Backup

Account Backups

You do not have any automatically generated backups that are currently available. Your server administrator or server owner **must** enable this feature.

Partial Backups

Download a Home Directory Backup

Restore a Home Directory Backup