

Elaboration Phase Specifications:

**Improving the Cardinal Cupboard's Business Processes**

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## **System Requirements**

**<id> The <system> shall <function>**

These are the list of system requirements. System requirements are also known as business requirements. They are statements of what the system must do or the characteristic it must have. These are simple and straight forward declaration for the system from the developer's perspective. It is also important to understand that the system requirements will evolve over time as the project advances from foundation to construction.

### **Functional Requirements**

1. The Grab & Go model shall have an online inventory system..
2. The Grab & Go model shall be able to update its inventory in a quick and simple manner.
3. The Cardinal Cupboard shall have a calendar on their website.
4. The Cardinal Cupboard shall create a system where volunteers can accurately track their hours.
5. The Cardinal Cupboard shall encourage donors to donate by having general statistics on users on their page.
6. The Cardinal Cupboard shall use a sufficient payment management system.
7. The Cardinal Cupboard shall emphasize the sustainability aspect of their operations by stating the number of pounds diverted from being wasted and being sent to the landfill.
8. The Cardinal Cupboard shall have a maintenance log on their van.
9. The Cardinal Cupboard shall provide parking arrangements for users who don't live on campus.
10. The Cardinal Cupboard shall create a setup for large events to reach out, or vice versa, to the organization to collect excess food.
11. The Cardinal Cupboard shall have a system to keep track of inventory to the best of their ability while respecting the privacy and dignity of their users.
12. The Cardinal Cupboard shall be able to take donor's information.
13. The Cardinal Cupboard shall be able to take donations.
14. The Cardinal Cupboard shall be able to take volunteers.
15. The Cardinal Cupboard shall be able to take appointments.
16. The Cardinal Cupboard shall manage donors.
17. The Cardinal Cupboard shall manage volunteers.
18. The Cardinal Cupboard shall manage appointments.
19. The Cardinal Cupboard shall display *Cardinal Cupboard Food Pantry Introduction Video* on page without redirecting to YouTube
20. The Cardinal Cupboard shall have basic contact information
21. The Cardinal Cupboard shall have the address with detailed information on their page.

### Non-Functional Requirements

1. The Cardinal Cupboard shall create their own account on Instagram..
2. The Cardinal Cupboard shall use the PayPal payment management system
3. The Cardinal Cupboard shall use GroupMe as one tool to communicate with volunteers.
4. The Cardinal Cupboard shall determine the maximum length of time an item in the pantry.
5. The Cardinal Cupboard shall use Cavana as one tool to create marketing materials.
6. The Cardinal Cupboard shall continue to use Weebly platform to host their pages.
7. The Cardinal Cupboard shall use Fueelly to maintain the log on their van.
8. The Cardinal Cupboard shall continue to use Primarius to restock inventory working with Dare to Care.
9. The Cardinal Cupboard shall operate a Food Recovery Network patterning with Aramark.

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### Requirement hierarchy

#### **Products -**

##### Functional requirement hierarchy

- The Grab & Go model shall have an online inventory system..
- The Grab & Go model shall be able to update its inventory in a quick and simple manner.
- The Cardinal Cupboard shall have a system to keep track of inventory to the best of their ability while respecting the privacy and dignity of their users.

##### Non- Functional requirement hierarchy

- The Cardinal Cupboard shall determine the maximum length of time an item in the pantry.
- The Cardinal Cupboard shall continue to use Primarius to restock inventory working with Dare to Care.

#### **Webpage -**

##### Functional requirement hierarchy

- The Cardinal Cupboard shall have a calendar on their website.
- The Cardinal Cupboard shall encourage donors to donate by having general statistics on users on their page.
- The Cardinal Cupboard shall emphasize the sustainability aspect of their operations by stating the number of pounds diverted from being wasted and being sent to the landfill.
- The Cardinal Cupboard shall be able to take volunteers.
- The Cardinal Cupboard shall display *Cardinal Cupboard Food Pantry Introduction Video* on page without redirecting to YouTube.
- The Cardinal Cupboard shall have basic contact information
- The Cardinal Cupboard shall have the address with detailed information on their page.

#### Non- Functional requirement hierarchy

- The Cardinal Cupboard shall continue to use Weebly platform to host their pages.

#### **Payment -**

##### Functional requirement hierarchy

- The Cardinal Cupboard shall use a sufficient payment management system.
- The Cardinal Cupboard shall be able to take donor's information.
- The Cardinal Cupboard shall be able to take donations.

##### Non- Functional requirement hierarchy

- The Cardinal Cupboard shall use the PayPal payment management system
- The Cardinal Cupboard shall operate a Food Recovery Network patterning with Aramark.

#### **Arrangements -**

##### Functional requirement hierarchy

- The Cardinal Cupboard shall create a system where volunteers can accurately track their hours
- The Cardinal Cupboard shall have a maintenance log on their van.
- The Cardinal Cupboard shall provide parking arrangements for users who don't live on campus.

##### Non- Functional requirement hierarchy

- The Cardinal Cupboard shall create their own account on Instagram..
- The Cardinal Cupboard shall use Cavana as one tool to create marketing materials.
- The Cardinal Cupboard shall use Fuely to maintain the log on their van.

#### **Digital Abilities -**

##### Functional requirement hierarchy

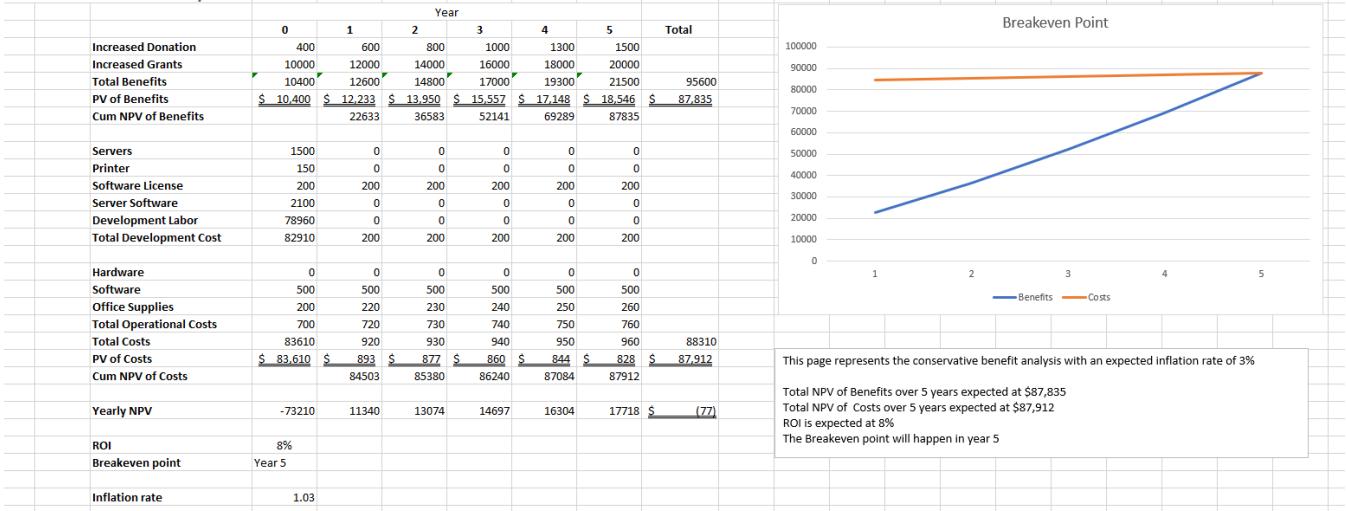
- The Cardinal Cupboard shall be able to take volunteers.
- The Cardinal Cupboard shall be able to take appointments.
- The Cardinal Cupboard shall manage donors.
- The Cardinal Cupboard shall manage volunteers.
- The Cardinal Cupboard shall manage appointments

##### Non- Functional requirement hierarchy

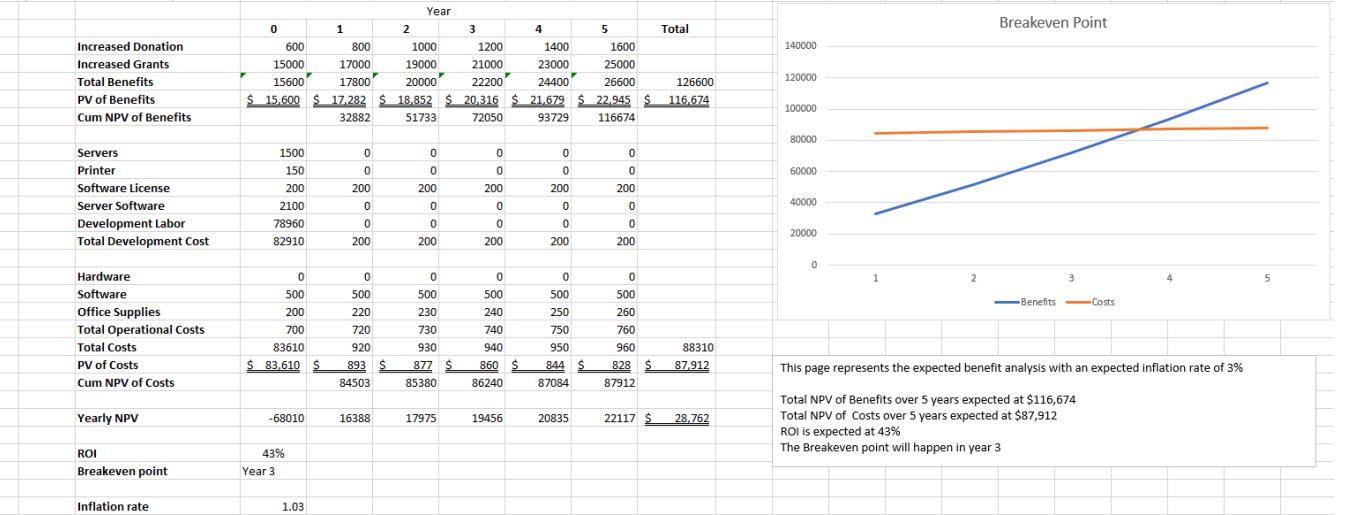
- The Cardinal Cupboard shall use GroupMe as one tool to communicate with volunteers.

## Economic Feasibility

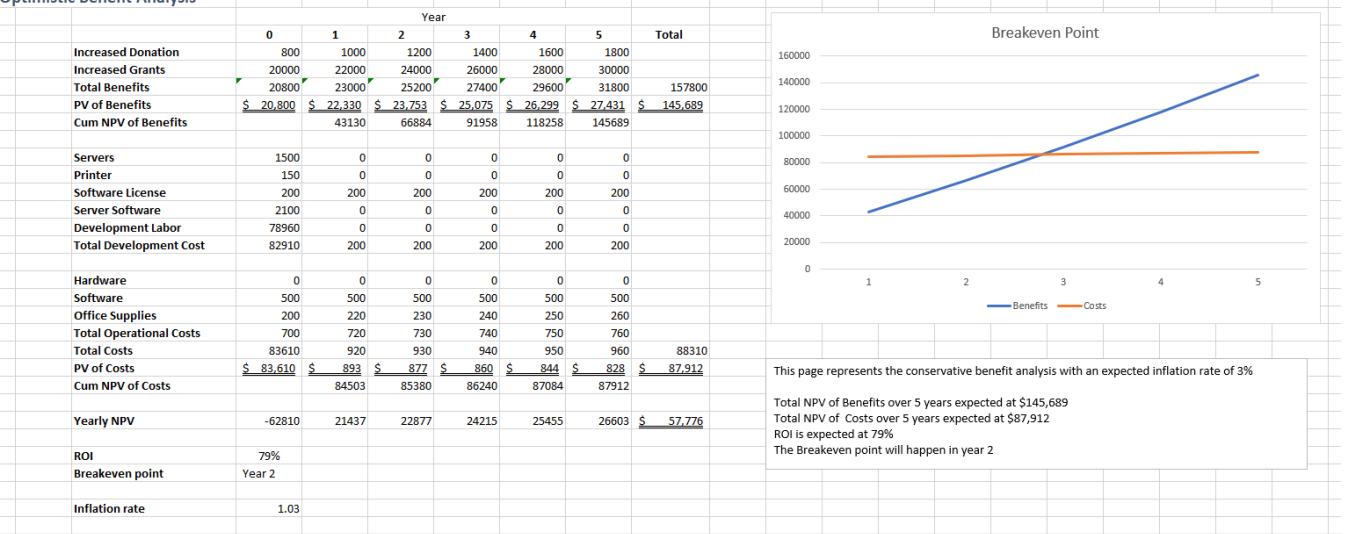
### Conservative Benefit Analysis



### Expected Benefit Analysis

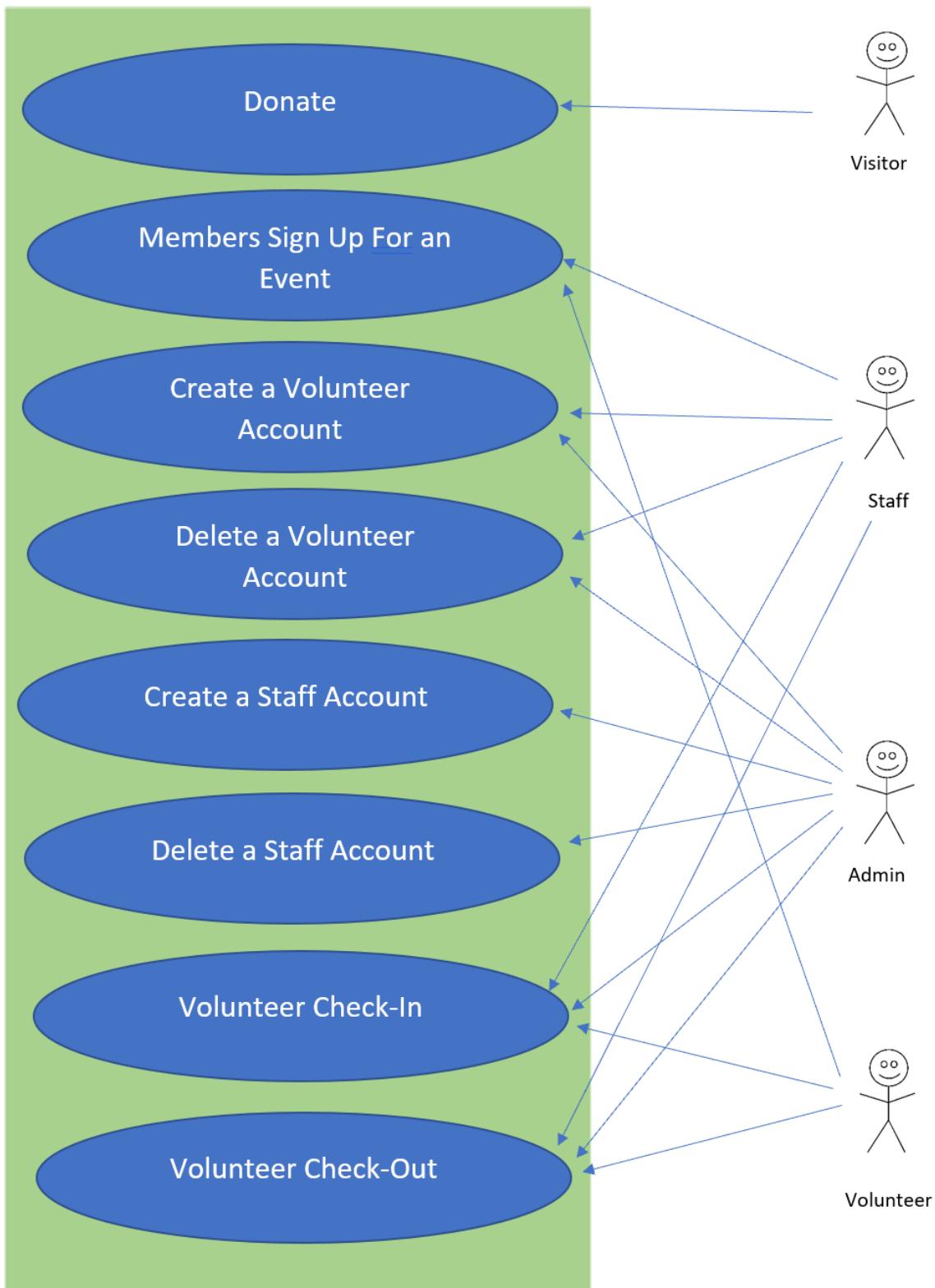


### Optimistic Benefit Analysis

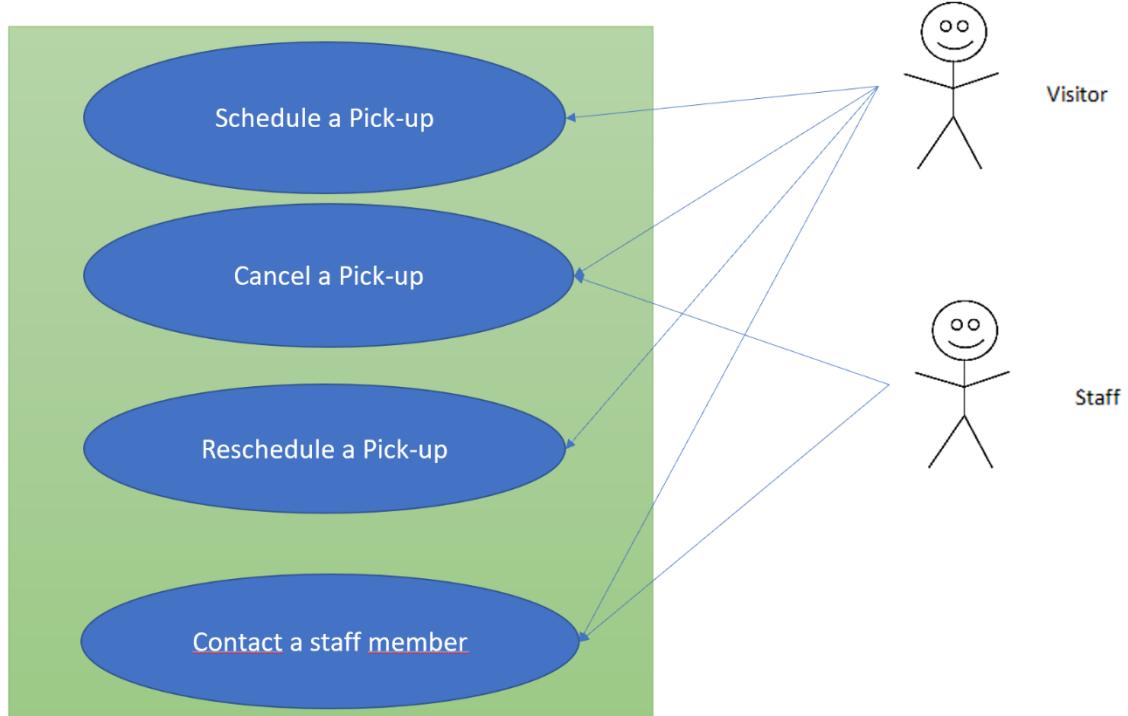
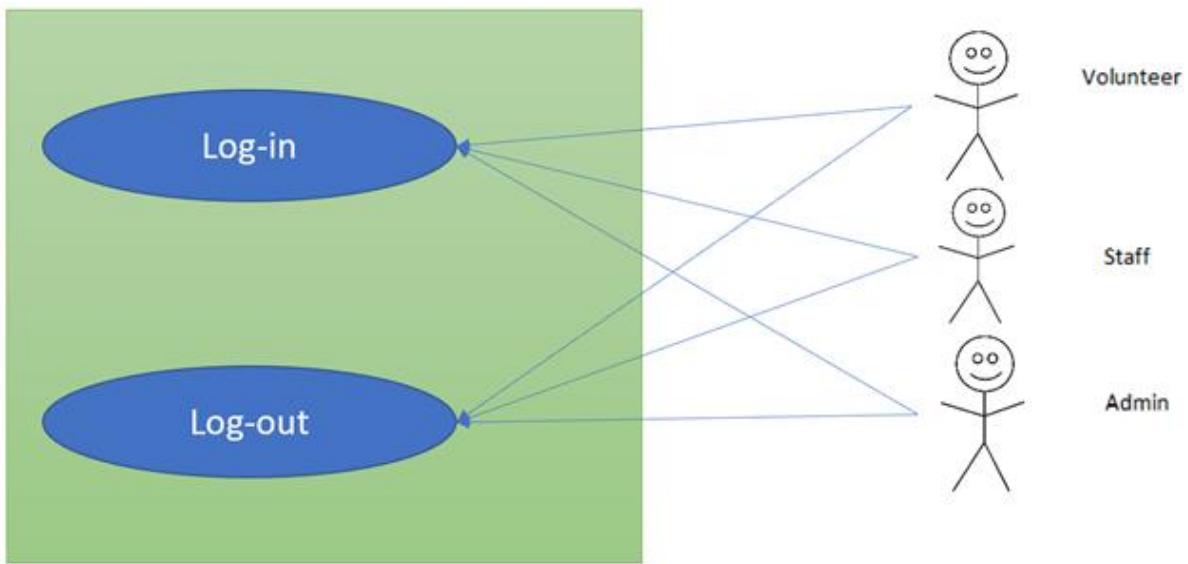


## Use Case Diagrams

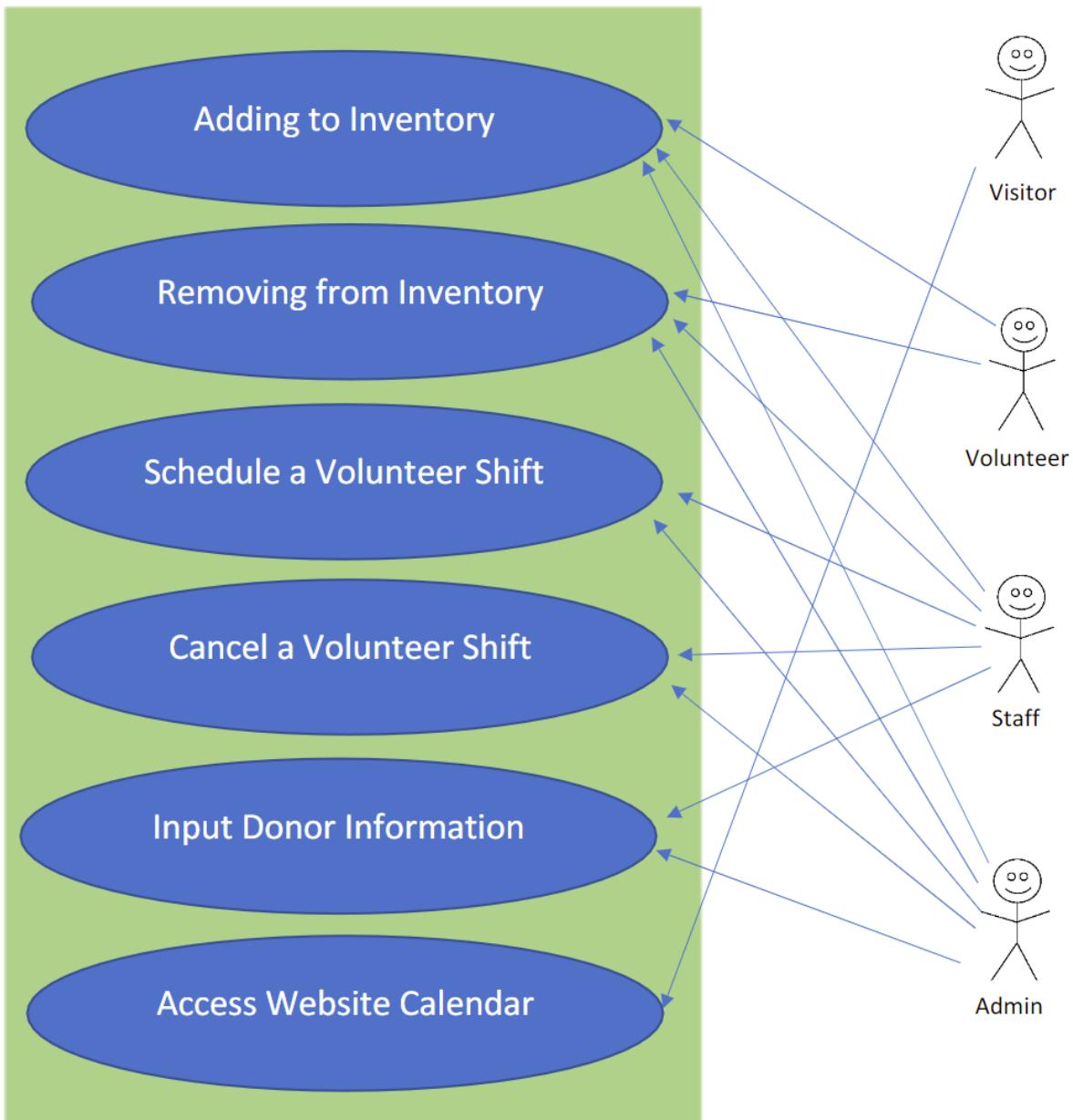
Use Cases 1-8



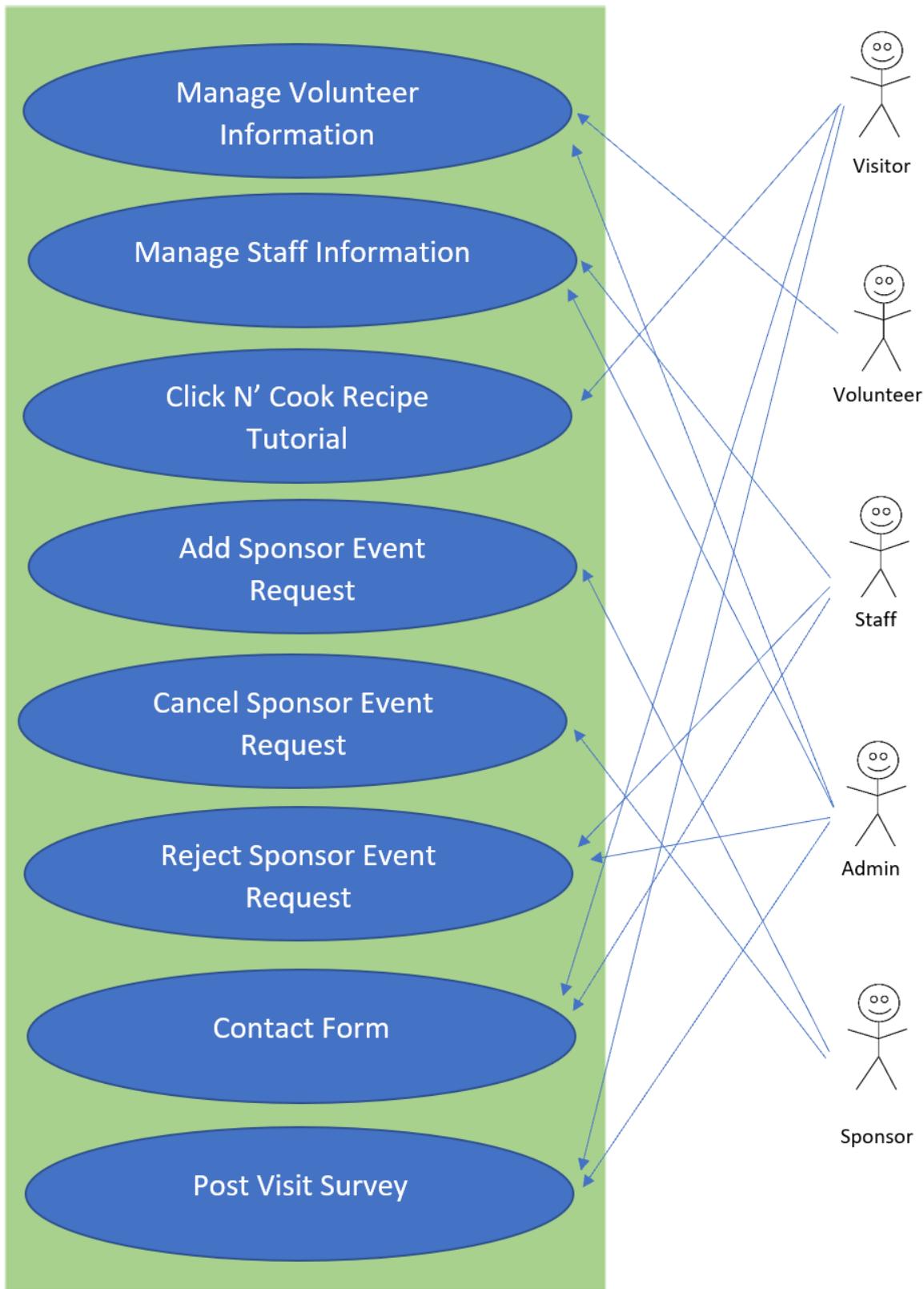
## Use Cases 9-14



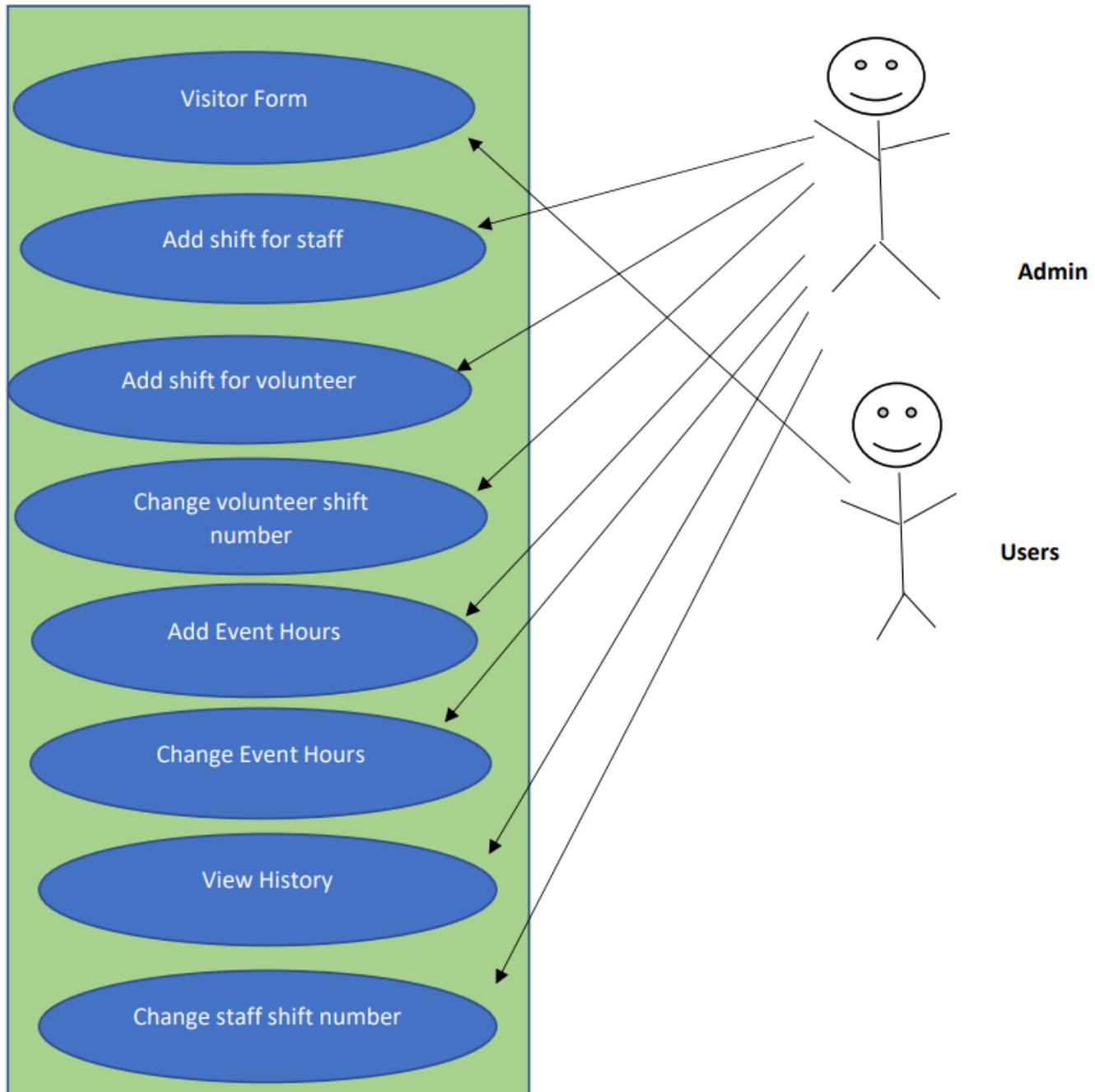
Use Cases 15-21



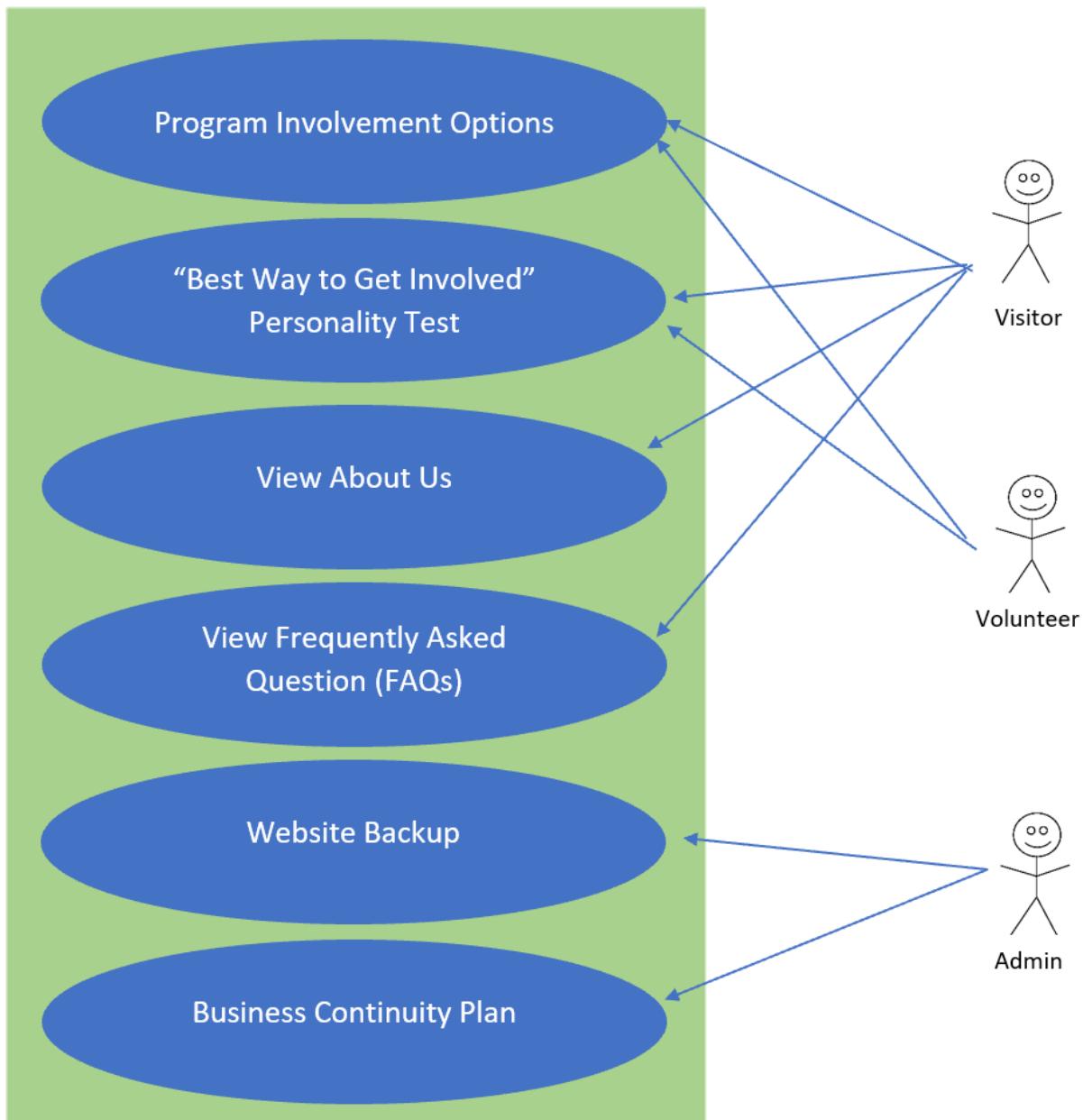
Use Cases 22-29



## Use Cases 30-37



Use cases 38-43



## Trace Matrix

Trace Matrix									
Use Cases 1-8									
<b>Use Cases -&gt;</b> <b>System Requirements v</b>	Donate	Members Sign Up for an Event	Create Volunteer Account	Delete Volunteer Account	Create Staff Account	Delete Staff Account	Check In	Check Out	
Volunteer Management									
Staff Management									
Donor Encouragement									
Event Scheduling									
Use Cases 9-14									
<b>Use Cases -&gt;</b> <b>System Requirements v</b>	Schedule a Pick-Up	Cancel a Pick-Up	Reschedule a Pick-Up	Contact Staff Member	Log-In	Log-Out			
Volunteer Management									
Staff Management									
Admin Management									
Client Appointments									
Contact Information									
Use Cases 15-21									
<b>Use Cases -&gt;</b> <b>System Requirements v</b>	Adding to Inventory	Removing from Inventory	Schedule a Volunteer Shift	Cancel a Volunteer Shift	Input Donor Information	Access Website Calendar			
Inventory									
Volunteer Management									
Donor Management									
Website Calendar									
Volunteer Encouragement									
Use Cases 22-29									
<b>Use Cases -&gt;</b> <b>System Requirements v</b>	Manage Volunteer Information	Manage Staff Information	Click 'N Cook Recipe Tutorial	Add Sponsor Event Request	Cancel Sponsor Event Request	Reject Sponsor Event Request	Contact Form	Post-Visit Survey	
Volunteer Management									
Staff Management									
Request Events									
Sponsor Event Scheduling									
Contact Information									
Click 'N Cook Recipes									
Visitor Survey									
Use Cases 30-37									
<b>Use Cases -&gt;</b> <b>System Requirements v</b>	Visitor Form	Add Shift for Staff	Add Shift for Volunteer	Change Volunteer Shift Number	Add Event Hours	Change Event Hours	View History	Change Staff Shift Number	
Staff Shifts									
Volunteer Shifts									
Event Scheduling									
History Information									
Visitor Information									
Use Cases 38-43									
<b>Use Cases -&gt;</b> <b>System Requirements v</b>	Program Involvement Options	"Best Way to Get Involved" Personality Test	About Us	Frequently Asked Questions	Website Backup	Business Continuity Plan			
Website Calendar									
Volunteer Encouragement									
Volunteer Management									
Donor Encouragement									
Donor Management									
Contact Information									
Website Backups and Recovery									

## Use Cases

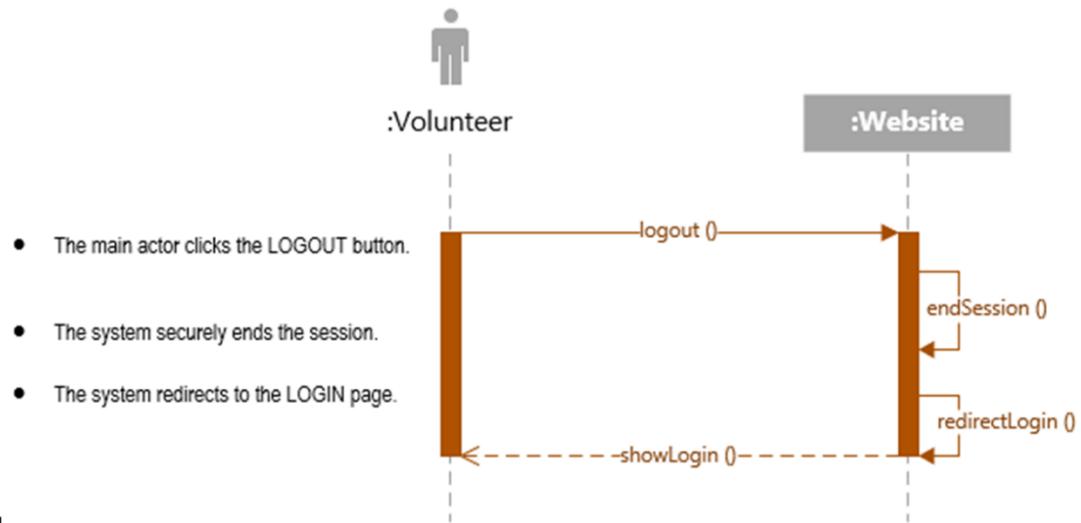
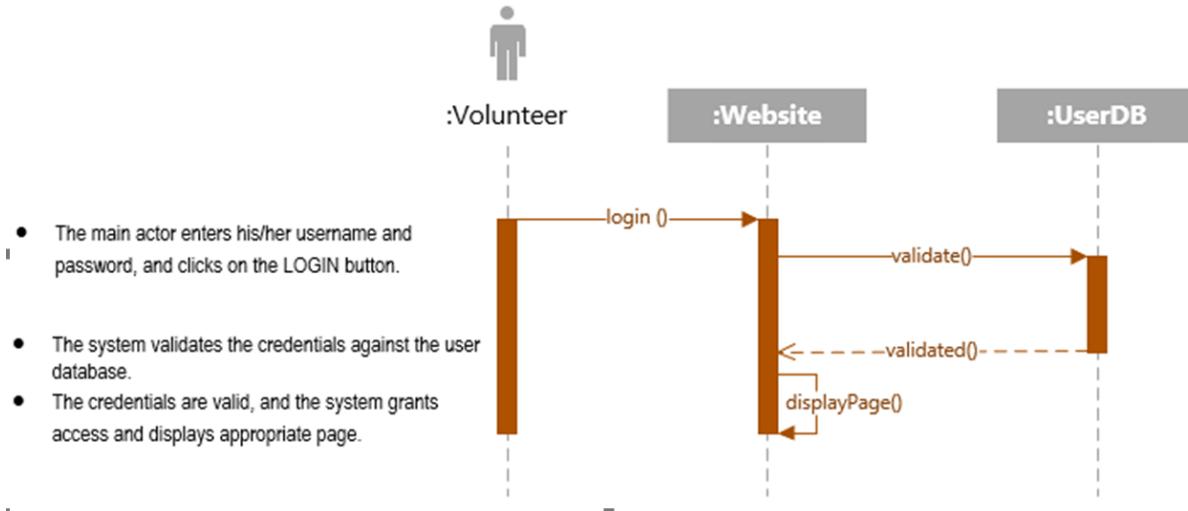
1. **Log-in**
  - Primary actor: volunteers, staff, and admin
  - Team members will be able to log in to a personal page that tracks their information and details of important data that they may need.
2. **Log-out**
  - Primary actor: volunteer, staff, and admin
  - Team members after viewing their personalized page will sign out to access the original page or sign out for safety/ privacy reasons.
3. **Donate**
  - Primary actor: potential donors
  - Including a donate button or portion of the website will allow for a great influx of monetary and food donations.
4. **Sign Up for an Event**
  - Primary actor: volunteers and staff
  - A volunteer sign-up section will give volunteers and staff the ability to sign up for more events.
5. **Create Volunteer Account**
  - Primary actor: staff and admin
  - Creating a volunteer account so approved volunteers can access scheduling and order pages.
6. **Delete Volunteer Account**
  - Primary actor: volunteers, staff, and admin
  - After creating a volunteer account, you can delete the account
7. **Create Staff Account**
  - Primary actor: Admin
  - Creating a staff account so a new staff can access staff pages and privileges.
8. **Delete Staff Account**
  - Primary actor: admin
  - After creating a staff account you can delete the account.
9. **Check-In Volunteer**
  - Primary actor: volunteers, staff, and admin
  - Volunteers will be able to check in and keep track of their volunteering hours.
10. **Check-Out Volunteer**
  - Primary actor: volunteers, staff, and admin
  - Volunteers can check-out after checking in earlier that day to accurately track hours.
11. **Schedule a Pick-up**
  - Primary actor: recipients of the food pantry
  - Visitors or people in need will be able to schedule a time to pick up necessities.

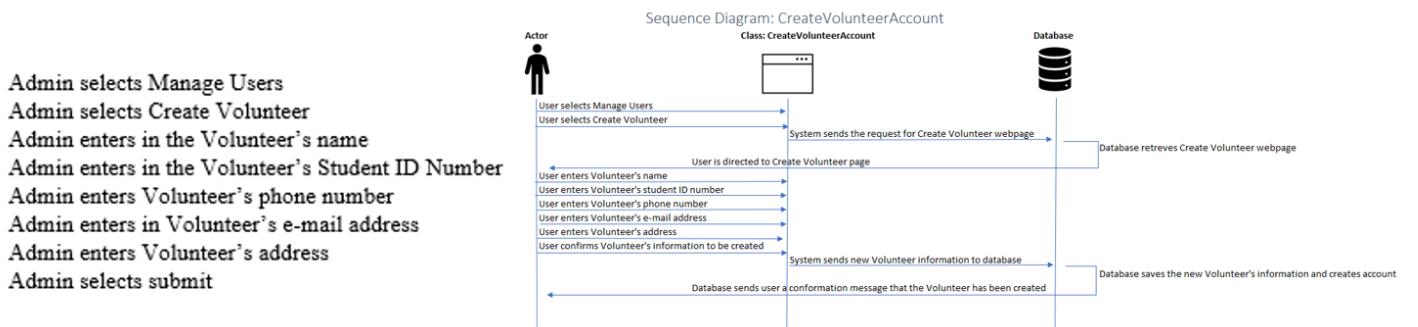
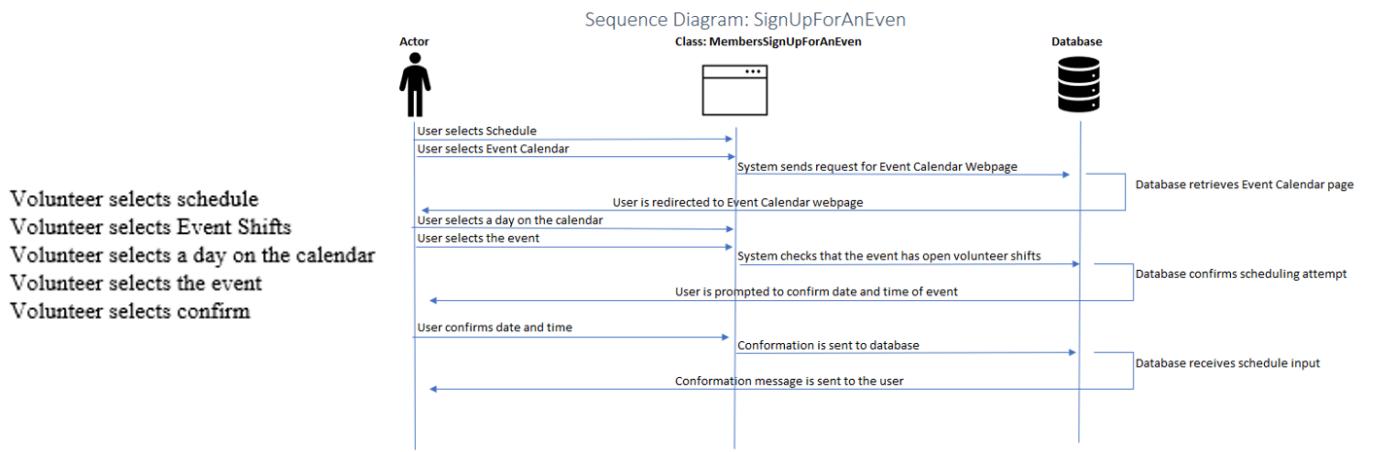
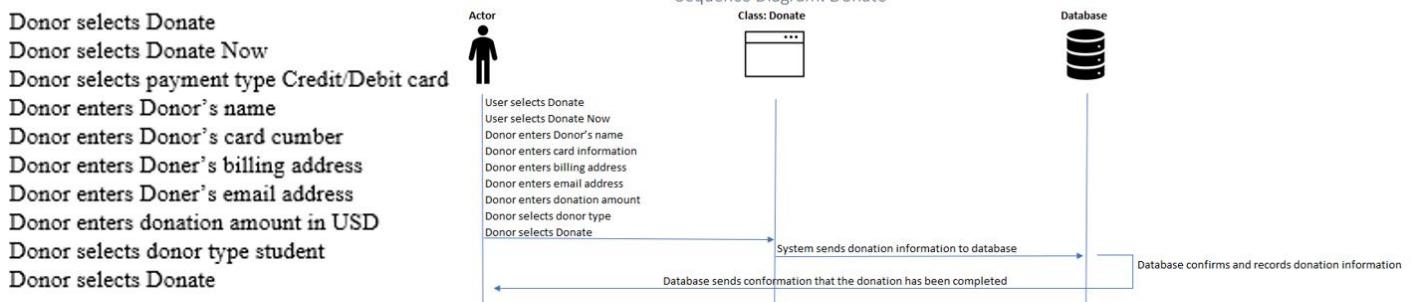
12. **Cancel a Pick-up**
  - Primary actor: recipients of the food pantry
  - Visitors or people in need will be able to cancel their scheduled time to pick up goods.
13. **Reschedule a Pick-up**
  - Primary actor: recipients of the food pantry
  - Visitors or people in need will be able to reschedule their scheduled time to pick up goods.
14. **Contact a Staff Member**
  - Primary actor: visitors
  - Visitors looking for more information or that have a specific question not answered by the FAQ's will have the ability to contact a staff member.
15. **Adding to Inventory**
  - Primary actor: volunteer, staff, and admin
  - This will allow the ability to add additional inventory.
16. **Removing From Inventory**
  - Primary actor: volunteer, staff, and admin
  - This will allow the ability to remove inventory that is no longer in stock or that is outdated.
17. **Schedule a Volunteer Shift**
  - Primary actor: staff and admin
  - Staff and admin will be able to schedule shifts for said volunteers.
18. **Cancel a Volunteer Shift**
  - Primary actor: staff and admin
  - Staff and admin will be able to cancel shifts for said volunteers.
19. **Input Donor Information**
  - Primary actor: staff and admin
  - This will track information pertaining to monetary donors.
21. **Access Website Calendar**
  - Primary actor: visitors
  - Anyone looking to see upcoming events can look at the calendar to see anticipated events listed.
22. **Manage Volunteer Information**
  - Primary actor: volunteers
  - Volunteer's personal information and other information can be viewed and modified.
23. **Manage Staff Information**
  - Primary actor: staff
  - Staff's personal information and other information can be viewed and modified.

24. **Click N' Cook Recipe Tutorial**
  - Primary actor: visitors
  - Anyone looking for recipe for meals to make with the food that they have received from the organization.
25. **Add Sponsor Event Request**
  - Primary actor: potential sponsor
  - Potential sponsor can make a sponsorship request to be approved.
26. **Cancel Sponsor Event Request**
  - Primary actor: potential sponsor, staff, and admin
  - After a potential sponsor creates a sponsorship request the request can be cancelled by that sponsor or a staff member.
27. **Reject Sponsor Event Request**
  - Primary actor: staff, and admin
  - After a potential sponsor creates a sponsorship request the request can be rejected by staff members or admin.
28. **Contact Form**
  - Primary actor: visitors
  - Any visitor with questions can use this contact form to message the staff.
29. **Post-Visit Survey**
  - Primary actor: Visitors
  - Anyone that has visited the pantry or a visitor that has feedback can fill out this form to share their experience.
30. **Potential Visitor Form**
  - Primary actor: Pantry visitors
  - Anyone looking to receive aid from the Cardinal Cupboard can fill out this form with their demographics to share what they may need assistance with.
31. **Admin: Add Shift for Staff**
  - Primary actor: Admin
  - The admin can add shifts for staff while also tracking it.
32. **Admin: Add Shift for Volunteer**
  - Primary actor: Admin
  - The admin can add shifts for volunteers while also tracking it.
33. **Admin: Change Volunteer Shift Number**
  - Primary actor: Admin
  - The admin can edit a volunteer shift after it has been created.
34. **Admin: Change Staff Shift Number**
  - Primary actor: Admin
  - The admin can change the shift number for staff after it has been added.

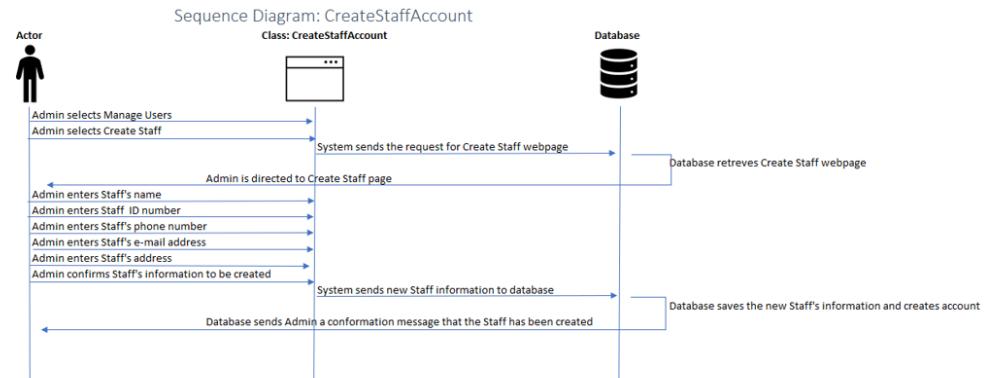
35. **Admin: Add Event Hours**
  - Primary actor: Staff and admin
  - Hours of an event can be added before publishing it for visitors to view.
36. **Admin: Change Event of Hours**
  - Primary actor: Admin
  - The hours of an event can be increased or reduced after publishing it for visitors to view previously.
37. **Admin: View History**
  - Primary actor: Admin
  - Admin will have the ability to view previous user history.
38. **Program Involvement Options**
  - Primary actor: visitors and volunteers
  - This will give potential volunteers, people in need, or current staff the ability to view and look between the different programs offered.
39. **“Best Way to Get Involved” Personality Test**
  - Primary actor: visitors
  - Anyone looking to be a part of the organization whether it is to donate, to volunteer, or to attend an event can view that information here.
40. **View About Us**
  - Primary actor: visitors
  - Visitors to the site will be able to view information about the Cardinal Cupboard.
41. **View Frequently Asked Questions (FAQs)**
  - Primary actor: visitors
  - Visitors to the site can visit this section to find answers to Frequently Asked Questions to limit the amount of contact entries staff receives.
42. **Website Backup**
  - Primary actor: Admin
  - The website will regularly backup through the university’s server in the case that the current site goes down.
43. **Business Continuity Plan**
  - Primary actor: Admin
  - The website will have a recovery plan in the case the website has a failure.

## Sequence Diagrams

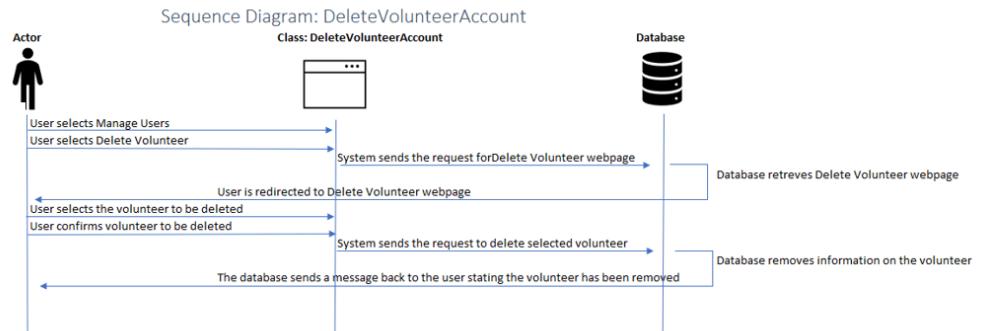




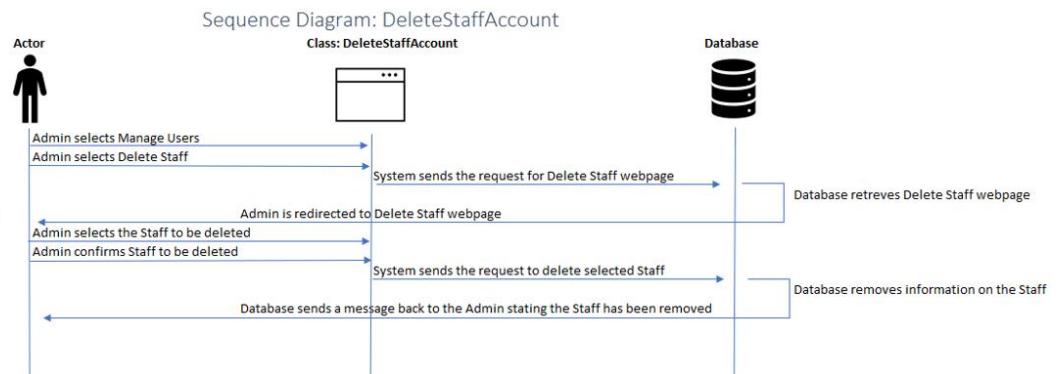
Admin selects Manage Users  
 Admin selects Create Staff  
 Admin enters in the Staff's name  
 Admin enters in the Staff's ID Number  
 Admin enters Staff's phone number  
 Admin enters in Staff's e-mail address  
 Admin enters Staff's address  
 Admin selects submit



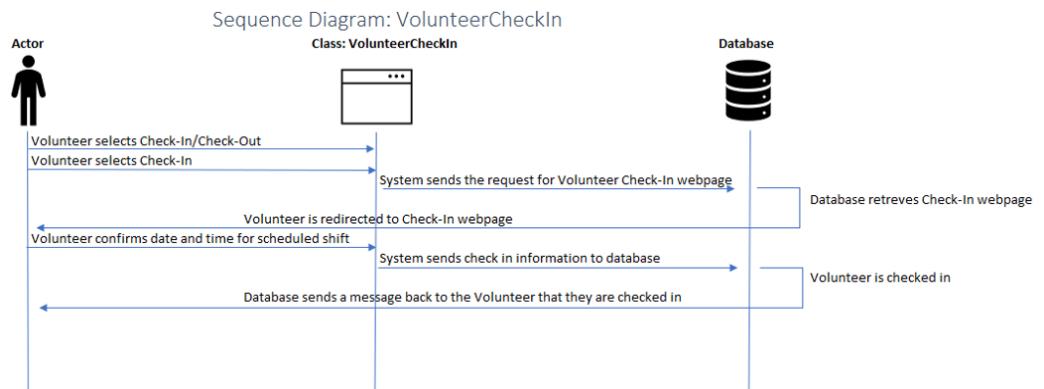
Admin selects Manage Users  
 Admin selects Delete Volunteer  
 Admin selects the volunteer to be removed  
 Admin selects delete volunteer  
 Admin selects confirm



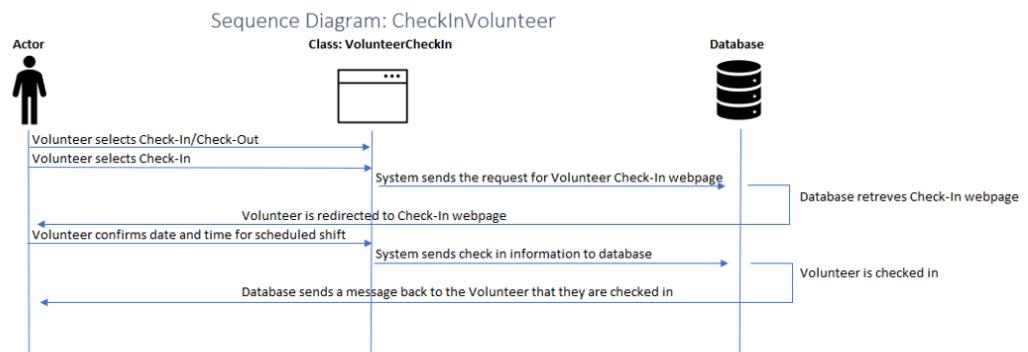
Admin selects Manage Users  
 Admin selects Delete Staff  
 Admin selects the staff to be removed  
 Admin selects delete staff  
 Admin selects confirm



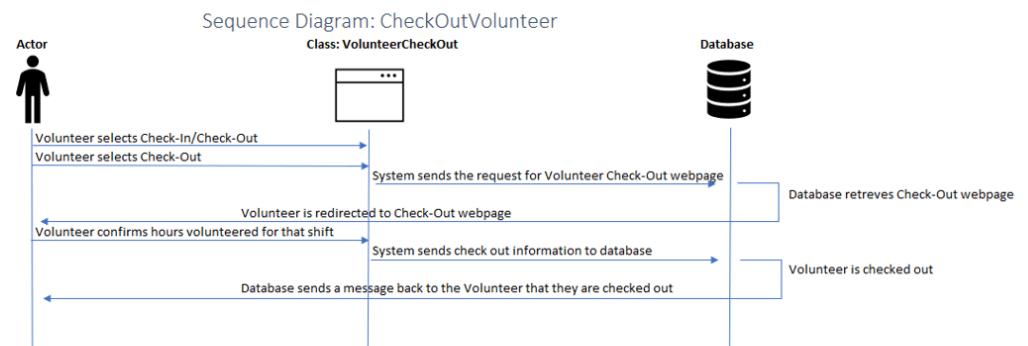
**Volunteer selects Check-In/Check-Out**  
**Volunteer selects Check-In**  
**Volunteer selects Confirm**

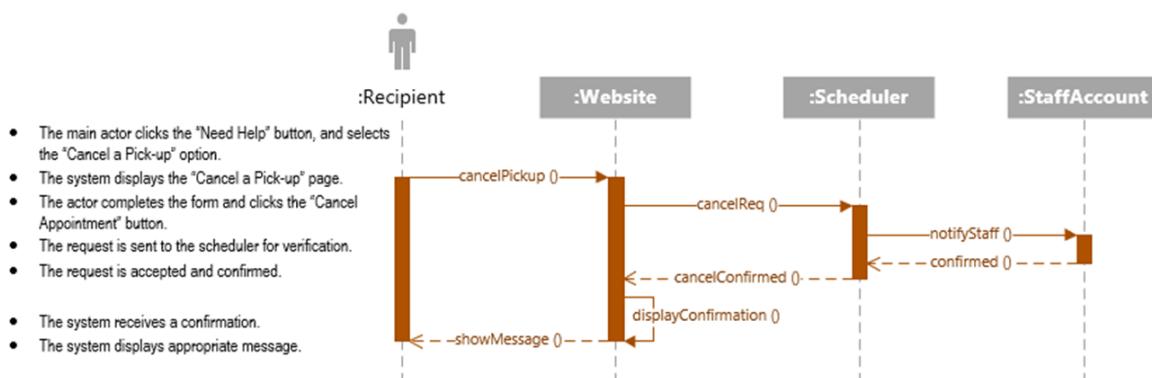
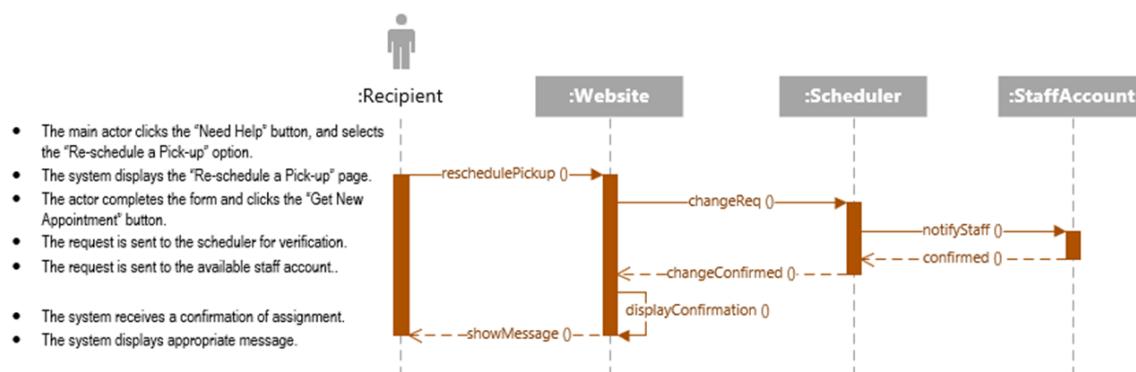
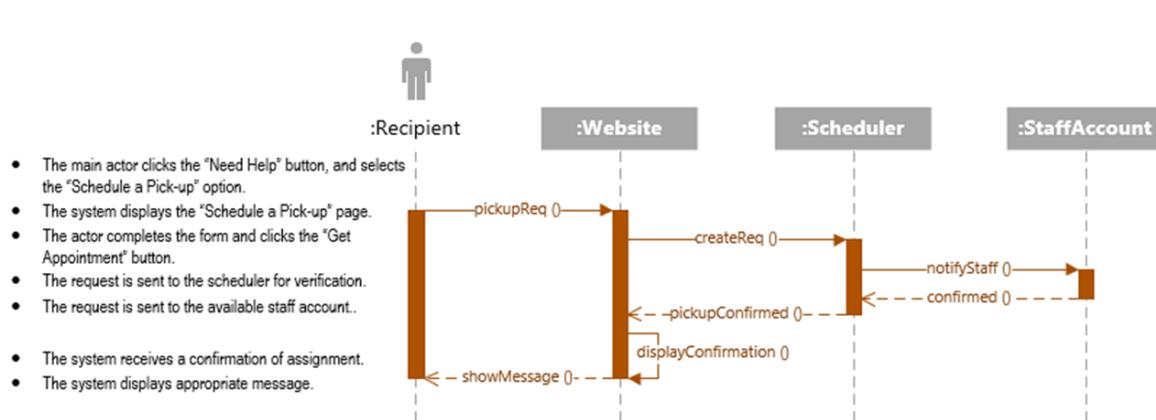
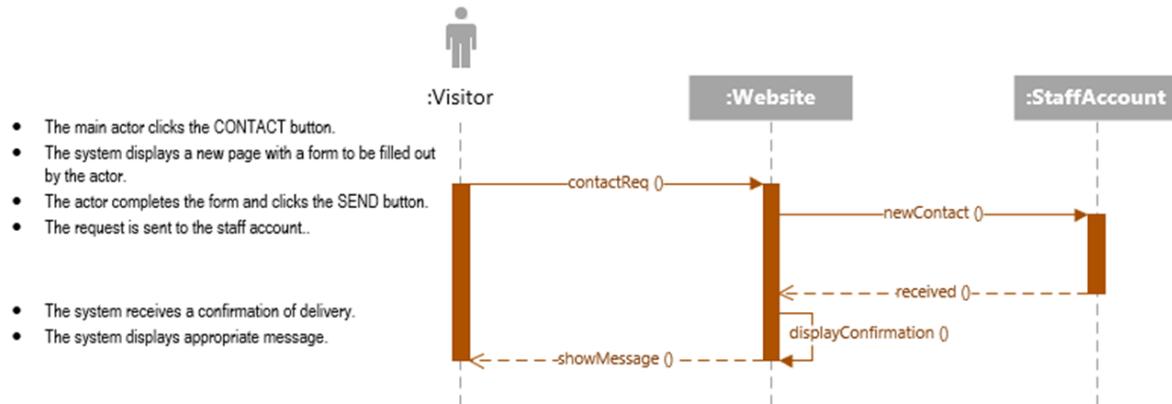


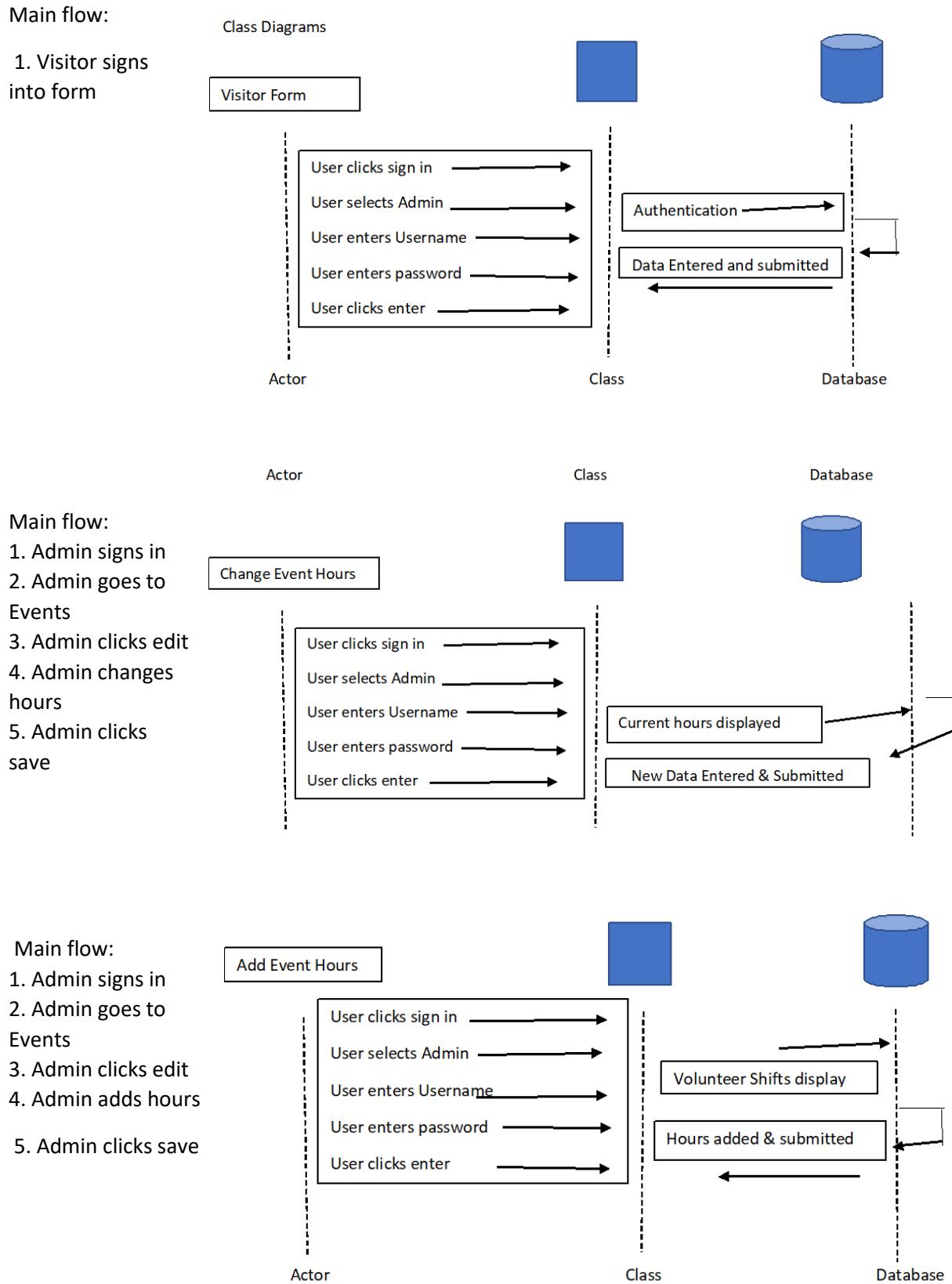
**Volunteer selects Check-In/Check-Out**  
**Volunteer selects Check-In**  
**Volunteer selects Confirm**

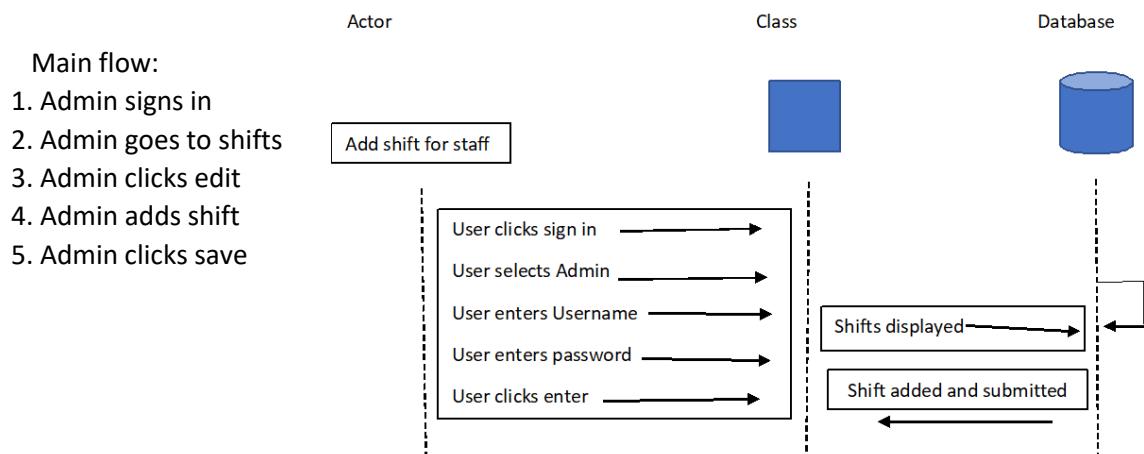
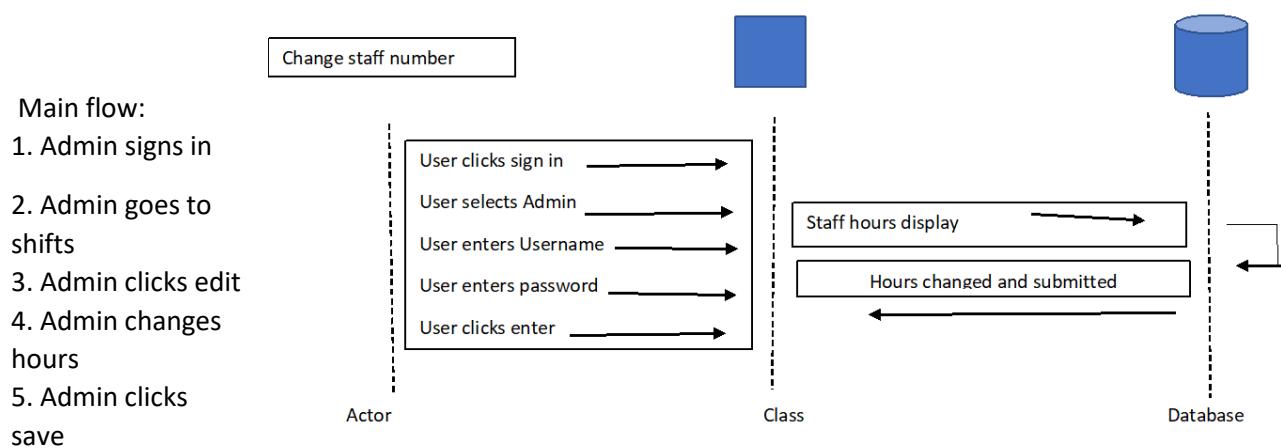
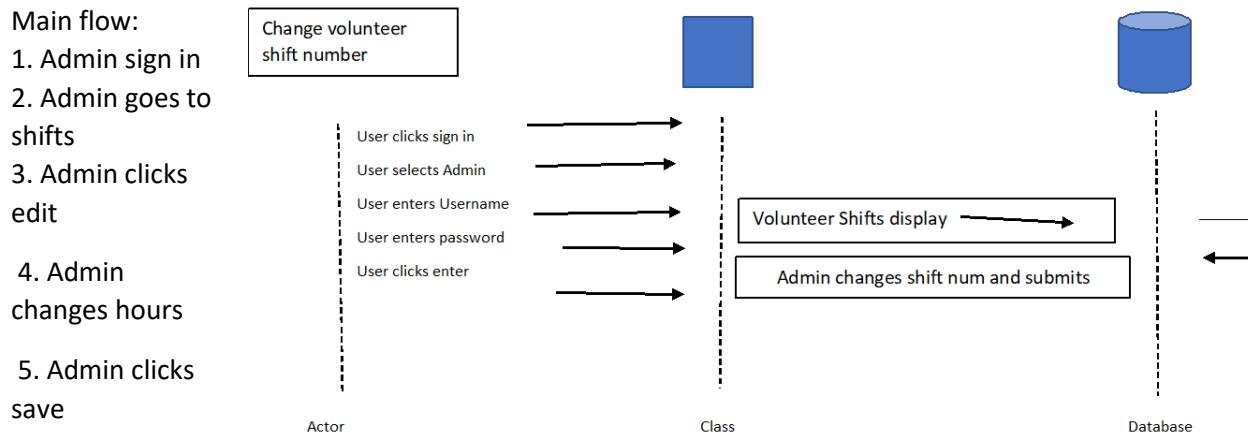


**Volunteer selects Check-In/Check-Out**  
**Volunteer selects Check-Out**  
**Volunteer selects Confirm**



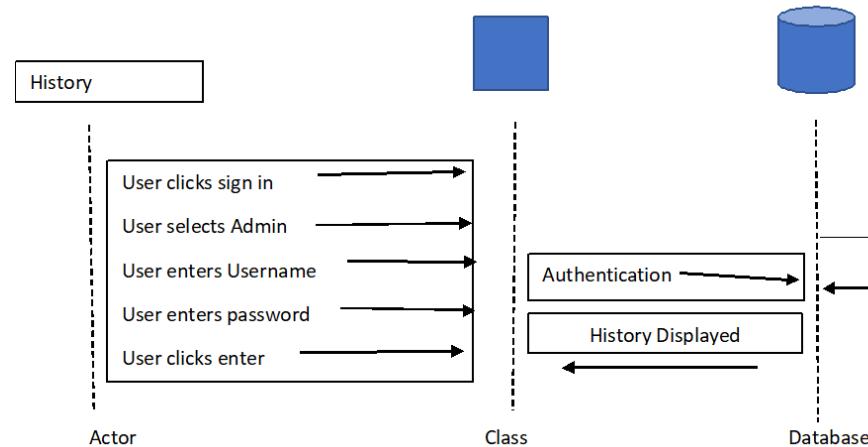






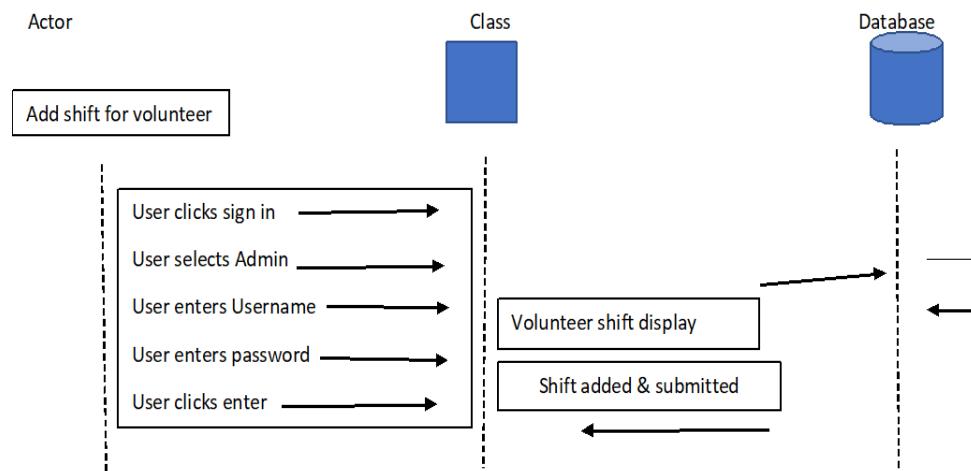
Main flow:

1. Admin signs in
2. Admin clicks history

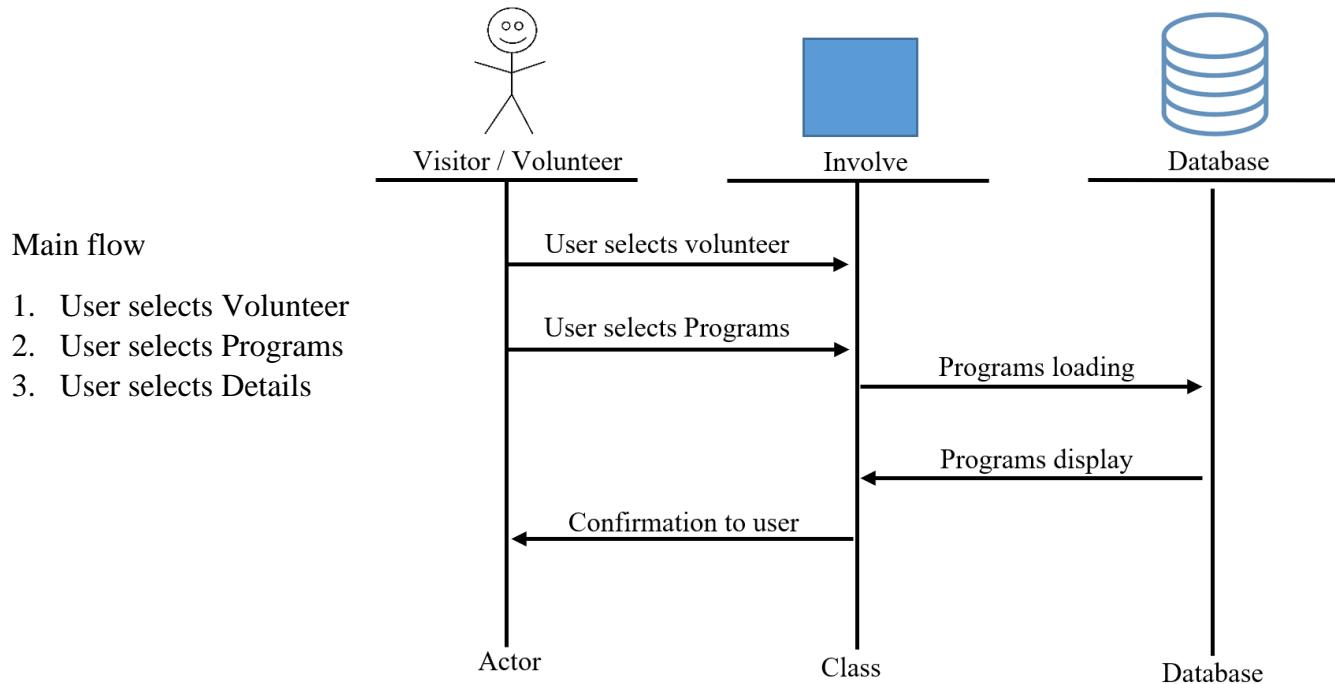


Main flow:

1. Admin sign in
2. Admin goes to shifts
3. Admin clicks edit
4. Admin changes hours
5. Admin clicks save



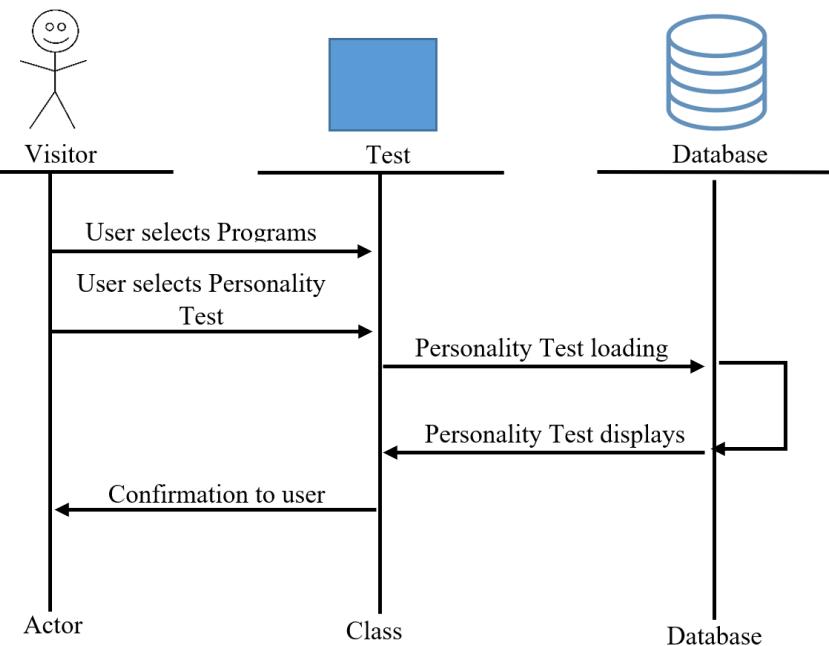
## Program Involvement Options



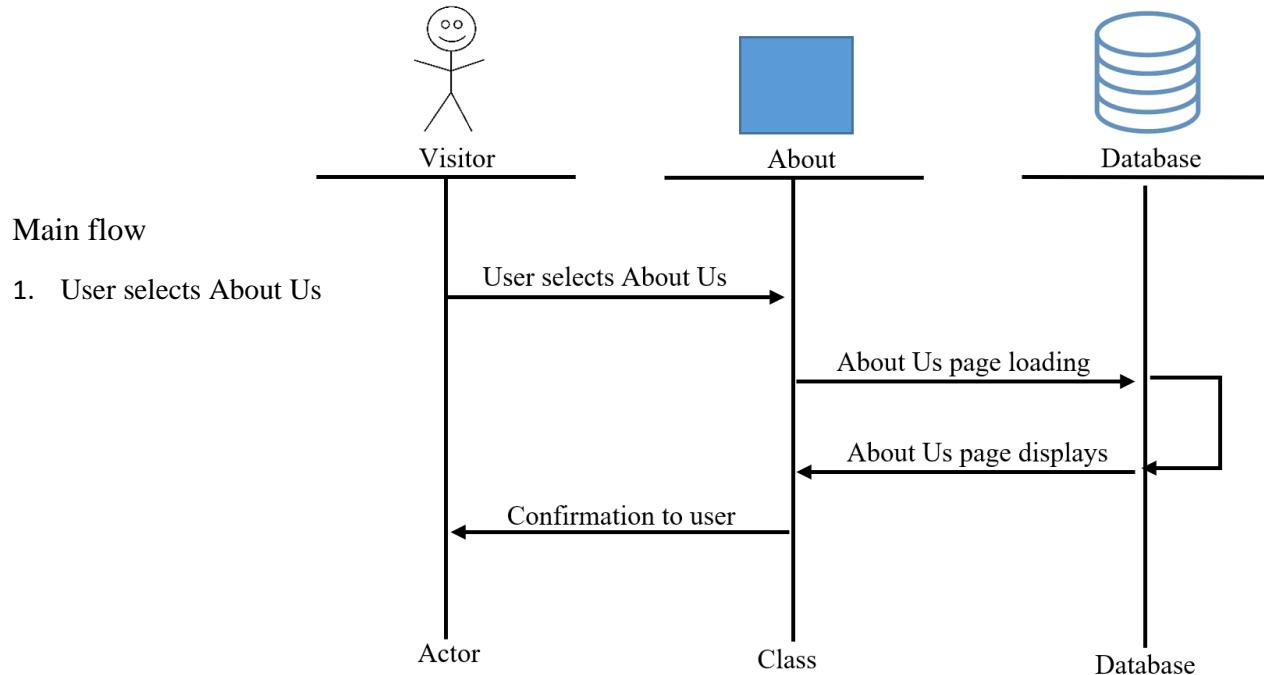
## “Best Way to Get Involved” Personality Test

### Main flow

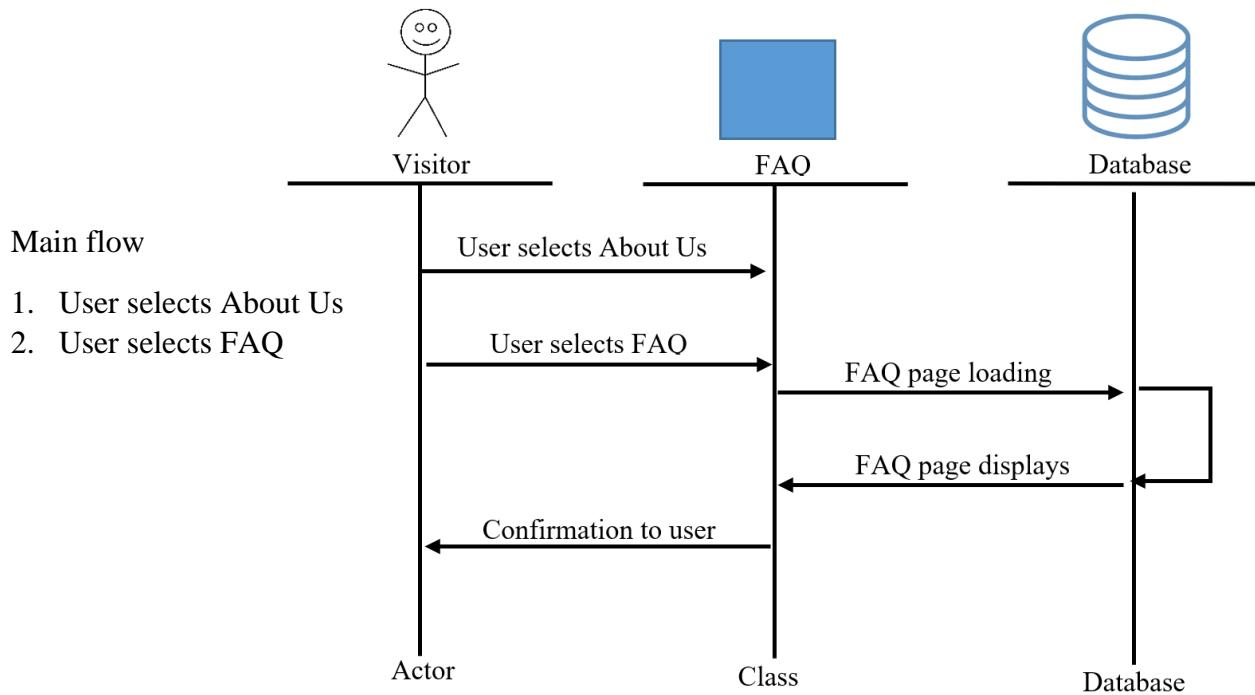
1. User selects Volunteer
2. User selects Programs
3. User selects “Best Way to Get Involved”
4. User is taken to form
5. User selects their preference on how often they want to be involved
6. User answers yes or no on if they can donate money
7. User answers yes or no on if they have spare nonperishables at home
8. User answers yes or no if they are involved in on-campus RSO’s
9. User answers how many hours per week they would commit to volunteering
10. User clicks submit
11. User views results



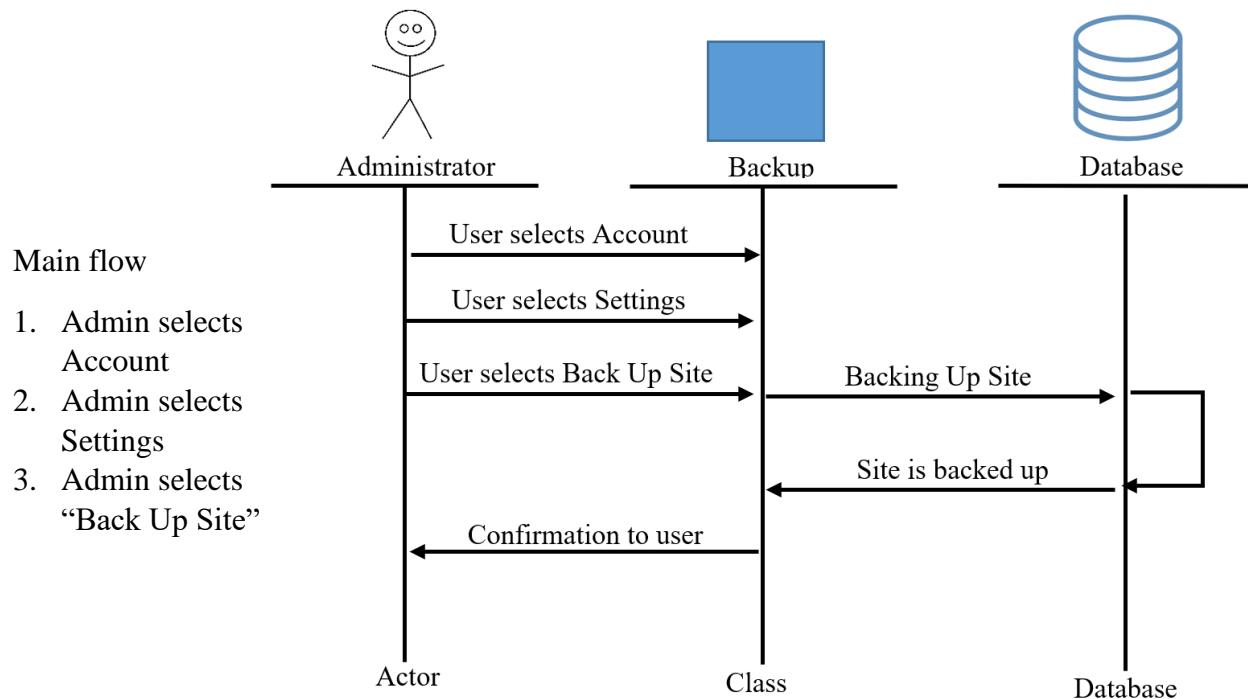
## About Us



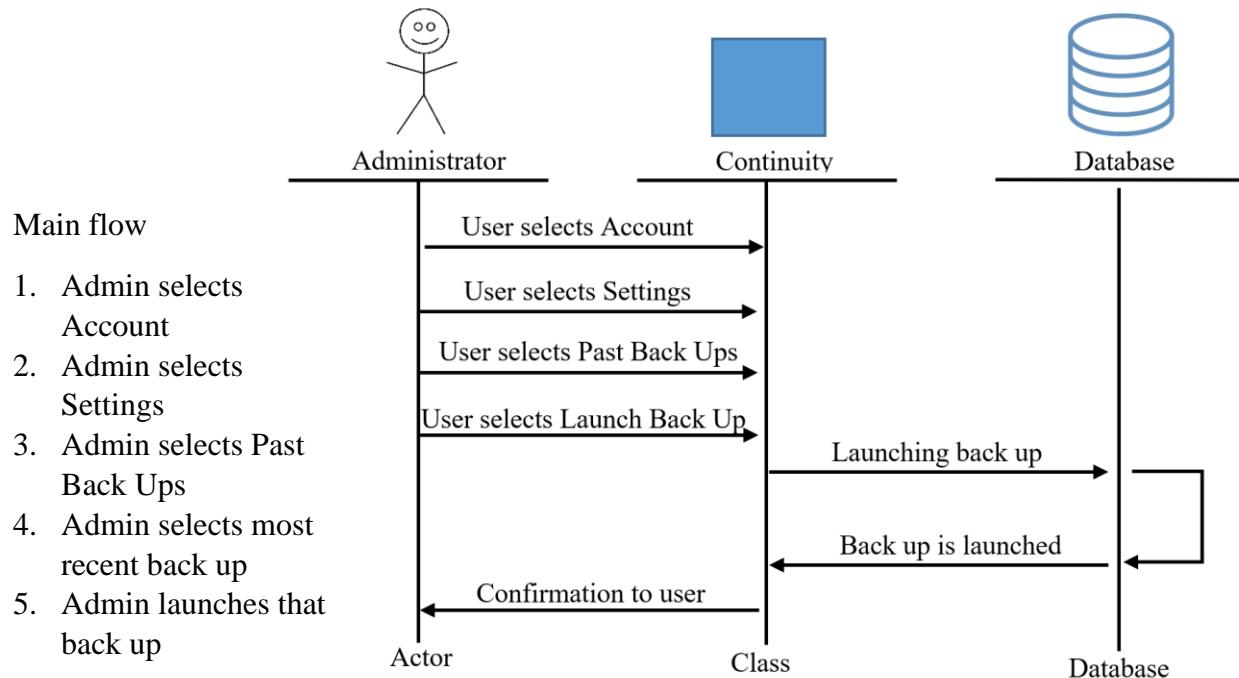
## Frequently Asked Questions



## Website Backup

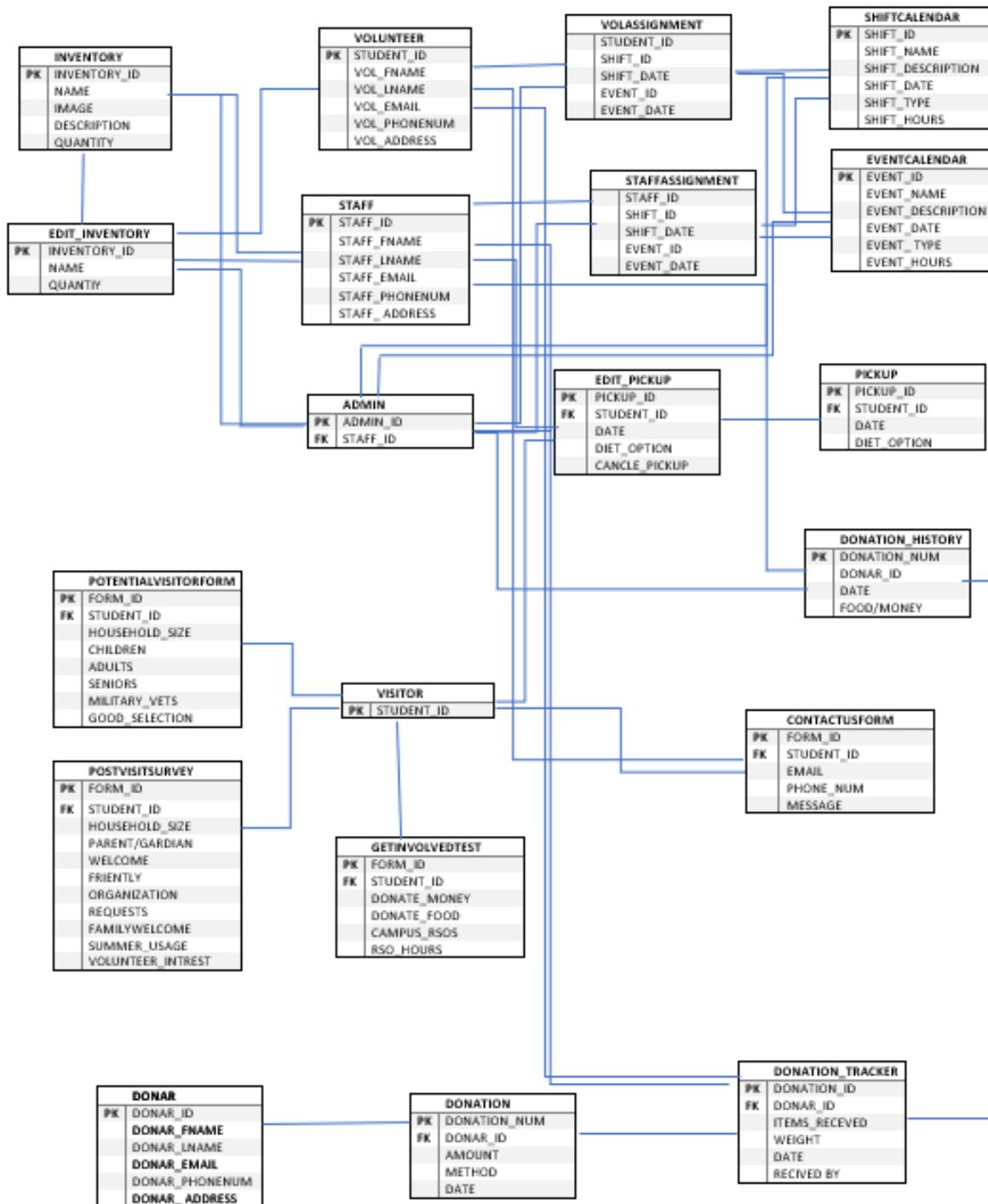


## Business Continuity Plan



## Class Diagram

The class diagram details how the different use cases will relate to each other when put with related classes. Each line connects the primary and foreign keys to share what pieces of information update each other.



## Database Design in 3NF

This is the third normal form (3NF) and database schema design that helps prevent duplication of data, avoid data anomalies, and provides integrity and simply the data management all together.

Table: DONATION

DONATION_NUM	DONAR_ID	AMOUNT	METHOD	DATE
--------------	----------	--------	--------	------

Table: DONATIONTRACKER

DONATION_NUM	DONAR_ID	ITEMS RECEIVED	WEIGHT	DATE	RECIVED_BY
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Table: DONATIONHISTORY

DONATION_NUM	DONAR_ID	FOOD/MONEY	DATE
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Table: INVENTORY

INVENTORY_ID	NAME	IMAGE	DESCRIPTOPN	QUANTITY
--------------	------	-------	-------------	----------

Table: EDITINVENTORY

INVENTORY_ID	NAME	QUANTITY
--------------	------	----------

Table: PICKUP

PICKUP_ID	STUDENT_ID	DATE	DIET_OPTION
-----------	------------	------	-------------

Table: EDIT\_PICKUP

PICKUP_ID	STUDENT_ID	DATE	DIET_OPTION	CANCEL_PICKUP
-----------	------------	------	-------------	---------------

Table: POTENTAILVISITORFORM

FORM_ID	STUDENT_ID	HOUSEHOLD_SIZE	CHILDREN	ADULTS	SENIORS	MILITARY_VET	GOOD_SELECTION
---------	------------	----------------	----------	--------	---------	--------------	----------------

Table: GETINVOLVEDTEST

FORM_ID	STUDENT_ID	DONATE_MONEY	DONATE_FOOD	CAMPUS_RSOS	RSO_HOURS
---------	------------	--------------	-------------	-------------	-----------

Table: VOLUNTEER

<u>STUDENT_ID</u>	VOL_FNAME	VOL_LNAME	VOL_EMAIL	VOL_PHONENUM	VOL_ADDRESS
-------------------	-----------	-----------	-----------	--------------	-------------

Table: VOLASSIGNMENT

<u>STUDENT_ID</u>	SHIFT_ID	SHIFT_DATE

Table: SHIFTCALENDAR

<u>SHIFT_ID</u>	SHIFT_NAME	SHIFT_DESCRIPTION	SHIFT_DATE	SHIFT_TYPE	SHIFT_HOURS
-----------------	------------	-------------------	------------	------------	-------------

Table: STAFF

<u>STAFF_ID</u>	STAFF_FNAM	STAFF_LNAM	STAFF_EMAIL	STAFF_PHONENUM	STAFF_ADDRESS
-----------------	------------	------------	-------------	----------------	---------------

Table: STAFFASSIGNMENT

<u>STAFF_ID</u>	SHIFT_ID	SHIFT_DATE

Table: EVENTCALENDAR

<u>EVENT_ID</u>	EVENT_NAME	EVENT_DESCRIPTION	EVENT_DATE	EVENT_TYPE	EVENT_HOUR
-----------------	------------	-------------------	------------	------------	------------

Table: ADMIN

<u>STAFF_ID</u>	<u>ADMIN_ID</u>
-----------------	-----------------

Table: DONAR

<u>DONAR_ID</u>	DONAR_FNAME	DONAR_LNAME	DONAR_EMAIL	DONAR_PHONENUM	DONAR_ADDRESS
-----------------	-------------	-------------	-------------	----------------	---------------

## Data Dictionary

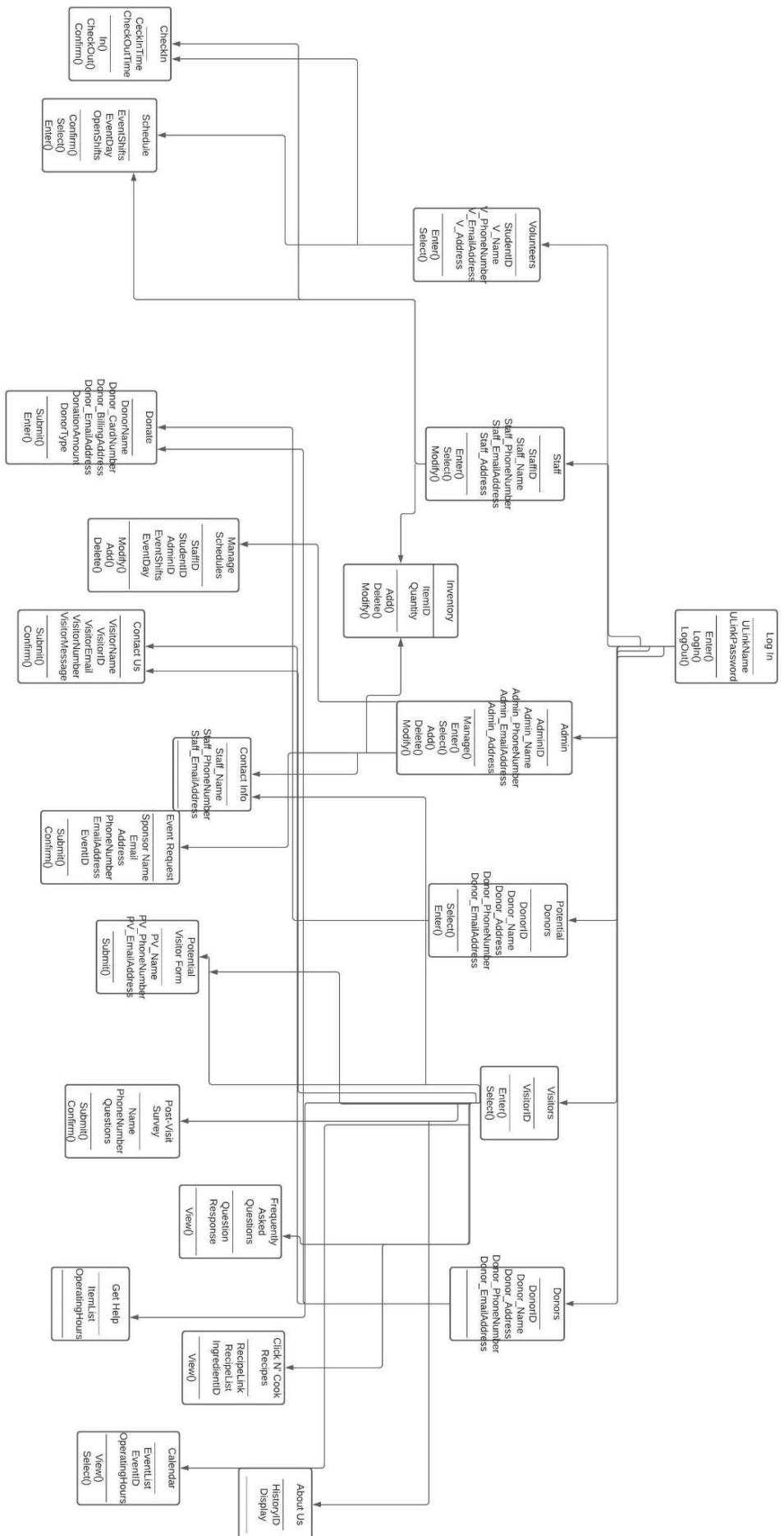
Table Name	PK/FK	Display name	Description	Data Type	Charcter length	Required?	Accept Null Values
VOLUNTEER	PK	STUDENT_ID	University student ID	Decimal	(7,0)	Y	N
		VOL_FNAME	Volunteer's first name	Char	20	Y	N
		VOL_LNAME	Volunteer's last name	Char	20	Y	N
		VOL_EMAIL	Volunteer's E-mail address	VarChar	30	Y	N
		VOL_PHONENUM	Volunteers Phone number	Decimal	(10,0)	Y	N
		VOL_ADDRESS	Volunteer's primary address	VarChar	50	Y	N
VOLUNTEERASSIGNMENT	FK	STUDENT_ID	University student ID	Decimal	(7,0)	Y	N
		SHIFT_ID	Unique shift ID number	Decimal	(7,0)	N	Y
		SHIFT_DATE	Date the shift is to take place	Date	MM/DD/YYYY	N	Y
		EVENT_ID	Unique event ID number	Decimal	(7,0)	N	Y
		EVENT_DATE	Date the event is to take place	Date	MM/DD/YYYY	N	Y
SHIFTCALENDAR	PK	SHIFT_ID	Unique shift ID number	Decimal	(7,0)	Y	N
		SHIFT_NAME	The name of the shift	Char	20	Y	N
		SHIFT_DESCRIPTION	Description of the shift/ location or hour	Char	50	Y	N
		SHIFT_DATE	Date the shift is to take place	Date	MM/DD/YYYY	Y	N
		SHIFT_TYPE	Type of shift, like clerk or inventory	Char	20	Y	N
STAFF	PK	SHIFT_HOURS	How long the shift is in hours	Decimal	(2,1)	Y	N
		STAFF_ID	University staffID numbers	Decimal	(7,0)	Y	N
		STAFF_FNAME	Staff's first name	Char	20	Y	N
		STAFF_LNAME	Staff's last name	Char	20	Y	N
		STAFF_EMAIL	Staff's E-mail address	VarChar	30	Y	N
		STAFF_PHONENUM	Staffs Phone number	Decimal	(10,0)	Y	N
STAFFASSIGNMENT	FK	STAFF_ID	University staffID numbers	Decimal	(7,0)	Y	N
		SHIFT_ID	Unique shift ID number	Decimal	(7,0)	N	Y
		SHIFT_DATE	Date the shift is to take place	Date	MM/DD/YYYY	N	Y
		EVENT_ID	Unique event ID number	Decimal	(7,0)	N	Y
		EVENT_DATE	Date the event is to take place	Date	MM/DD/YYYY	N	Y
EVENTCALENDAR	PK	EVENT_ID	Unique event ID number	Decimal	(7,0)	Y	N
		EVENT_NAME	The name of the event	Char	20	Y	N
		EVENT_DESCRIPTION	Description of the event/ location or hour	Char	50	Y	N
		EVENT_DATE	Date the event is to take place	Date	MM/DD/YYYY	Y	N
		EVENT_TYPE	Type of event, like pick up or van maintenance	Char	20	Y	N
ADMIN	PK	EVENT_HOURS	How long the event is in hours	Decimal	(2,1)	Y	N
		ADMIN_ID	Unique admin number	Decimal	(7,0)	Y	N
		STAFF_ID	University staffID numbers	Decimal	(7,0)	Y	N

DONOR	PK	DONOR_ID	unique donor ID	Decimal	(7,0)	Y	N
		DONAR_FNAME	Donar's first	Char	20	N	Y
		DONAR_LNAME	Donar's last	Char	20	N	Y
		DONAR_EMAIL	Donar's email address	VarChar	30	N	Y
		DONAR_PHONENUM	Donar's phone number	Decimal	(10,0)	N	Y
		DONAR_ADDRESS	Donar's address	VarChar	50	N	Y
DONATION	PK	DONATION_NUM	Unique number associated with every donation	Decimal	(7,0)	Y	N
	FK	DONAR_ID	Unique donor ID	Decimal	(7,0)	Y	N
		AMOUNT	The amount of the donation is	Decimal	(5,2)	Y	N
		DONATION_TYPE	How the donation was recived, like in	Char	20	Y	N
		METHOD	What payment method uses, like card, check or cash	Char	20	Y	N
		DATE	Date the donation was	Date	MM/DD/YYYY	Y	N
DONATIONTRACKER	PK	DONATION_NUM	Unique number associated with every donation	Decimal	(7,0)	Y	N
	FK	DONAR_ID	Unique donor ID	Decimal	(7,0)	Y	N
		ITEMS RECEIVED	Food items	Char	50	Y	N
		WEIGHT	Weight in food received	Decimal	(3,0)	Y	N
		DATE	Date the donation was	Date	MM/DD/YYYY	Y	N
		RECEIVED_BY	staff/student who in took the donation	Char	(20,0)	Y	N
DONATIONHISTORY	PK	DONATION_NUM	Unique number associated with every donation	Decimal	(7,0)	Y	N
		DONAR_ID	Unique donor ID	Decimal	(7,0)	Y	N
		FOOD/MONEY	Was the donation food or	Radio button	Food/ Money	Y	N
		DATE	Date the donation was	Date	MM/DD/YYYY	Y	N
EDITINVENTORY	PK	INVENTORY_ID	Unique inventory number	decimal	(7,0)	Y	N
		NAME	Name of the item	Char	20	Y	N
		QUANTITY	Number of the item	Decimal	(7,0)	Y	N
PICKUP	PK	PICKUP_ID	Unique number assigned to each pickup	Decimal	(7,0)	Y	N
	FK	STUDENT_ID	University student ID	Decimal	(7,0)	Y	N
		DATE	Date for pickup	Date	MM/DD/YYYY	Y	N
		DIET_OPTION	optional request for vegetarian, or allergies	Button	vegetarian/vegan/ nut allergies / gluten free	Y	Y
EDITPICKUP	PK	PICKUP_ID	Unique number assigned to each pickup	Decimal	(7,0)	Y	N
	FK	STUDENT_ID	University student ID	Decimal	(7,0)	Y	N
		DATE	Date for pickup	Date	MM/DD/YYYY	Y	N
		DIET_OPTION	optional request for vegetarian, or allergies	Button	vegetarian/vegan/ nut allergies / gluten free	Y	Y
		CANCEL_PICKUP	option to cancel pickup	Button	Yes	N	Y

INVENTORY	PK	INVENTORY_ID	Unique inventory	decimal	(7,0)	Y	N
		NAME	Name of the item	Char	20	Y	N
		IMAGE	Image of the item	Blob	2000 x 2000 pixels	N	Y
		DESCRIPTION	Description of the inventory	Char	50	Y	N
		QUANTITY	Number of the item	Decimal	(7,0)	Y	N
POTENTIALVISTORFORM	PK	FORM_ID	unique number assigned to each form filled out	Decimal	(7,0)	Y	Y
	FK	STUDENT_ID	University student ID	Decimal	(7,0)	Y	N
		HOUSEHOLD_SIZE	Number of people in	Decimal	(2,0)	Y	N
		CHILDREN	Number of children in household	Decimal	(2,0)	N	Y
		ADULTS	Number of adults in household	Decimal	(2,0)	N	Y
		SENIORS	Number of seniors in	Decimal	(2,0)	N	Y
		MILITARY_VET	Number of military vets in	Decimal	(2,0)	N	Y
		GOOD_SELECTION	what kind of goods is the visitor looking	Button	Produce/Produce and other/ Other	Y	N
GETINVOLVEDTEST	PK	FORM_ID	unique number assigned to each form filled out	Decimal	(7,0)	Y	Y
	FK	STUDENT_ID	University student ID	Decimal	(7,0)	Y	N
		DONATE_MONEY	Can the student donate money	Radio button	Yes/No	Y	N
		DONATE_FOOD	Can the student donate food?	Radio button	Yes/No	Y	N
		CAMPUS_RSOS	Is the student involved in any RSOs?	Char	100	Y	N
		RSOS_HOURS	If the student is involved in RSOs how many hours a week?	Decimal	(2,0)	N	Y

# Windows Navigation Diagram

The Windows Navigation Diagram displays the overall website layout and interconnectedness of the pages.



## User Interface Layouts

This Windows form represents use case 3. It allows us to keep track of how many people a visitor is shopping for. These demographics allow the Cardinal Cupboard to monitor their recipients and continue to provide the needed necessities.

The screenshot shows a Windows application window titled "Visitor Form". The interface includes a "ULink ID" text input field, several dropdown menus for demographic information (household size, children ages 0-5, children ages 6-17, adults ages 18-59, seniors ages 60 and above, and military veterans), a "Submit" button, and a section for describing search criteria with checkboxes for "Produce", "Produce and other Goods", and "Other goods (excluding produce)".

This form displays use case 26, the donation tracker. It allows volunteers, staff, and administrators to update the online database with additional donations. This form is available through their online account for easy access.

The screenshot shows a Windows application window titled "Donation Tracker". It features a calendar for November 2021 with the 28th highlighted. To the right of the calendar are fields for "Received" (with options like "By hand", "Box drop-off", "Event", "Food Drive", "Unknown", and "Other"), "Donated By" (a dropdown menu), "Items Received" (a text input field), "Weight (in pounds)" (a text input field), and a "Submit" button.

This Windows form displays use case 29, the post-visit survey. Once a visitor takes food from the pantry, they will have the option on the website to fill out this survey anonymously to reflect on their visit and provide suggestions for future patrons.

The screenshot shows a Windows application window titled "Post-Visit Survey". The interface includes a date picker set to "11/28/2021", a dropdown for the number of people in the household (set to 0), and two radio buttons for being a parent/guardian ("yes" or "no"). There are several text input fields for comments: "Do you feel welcome when shopping at the Cardinal Cupboard?", "In your experience, have the staff and volunteers been friendly?", "Do you think the organization of food and products is easy to follow?", "What other food or resources would you like to see in the cupboard?", "Do your family and friends know that they are also welcome to use the cupboard?", "Will you need the pantry's services during Summer break?", and "Would you be interested in volunteering in the future?". Each question has three options: "yes", "no", and "other". A "Submit" button is located at the bottom left of the form.

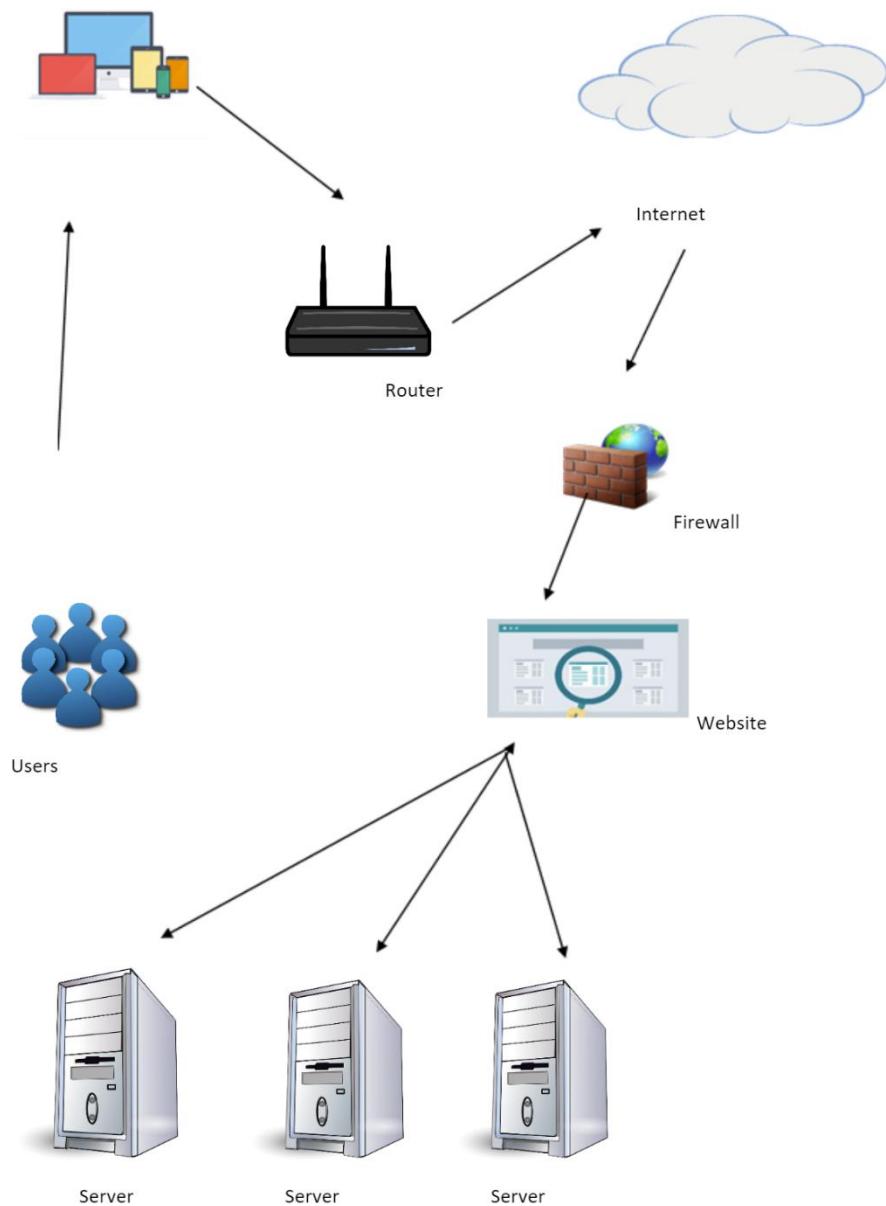
This Windows form displays use case 39. The “Best Way to Get Involved” Personality Test will appear in Windows format. It includes a variety of input options and a button to close the form. Once submitted, it determines the best course of action for the visitor and displays it afterwards.

The screenshot shows a Windows application window titled "'Best Way to Get Involved' Personality Test". The form contains several input fields and questions. At the top is a numeric up-down control for hours per week, currently set to 0. Below it is a question "How often would you like to be involved?" followed by a numeric up-down control showing 0 hours per week. Next is a question "Are you able to donate money?" with two radio buttons ("yes" and "no"). Then comes a question "Do you have spare non-perishable food at home?" with two radio buttons ("yes" and "no"). Following that is a question "Are you currently involved in any on-campus RSO's?" with two radio buttons ("yes" and "no"). At the bottom is a question "If yes, how many hours per week do you spend with these groups?" followed by a numeric up-down control showing 0 hours per week. A "Submit" button is located at the bottom center of the form.

## Physical Architecture Design

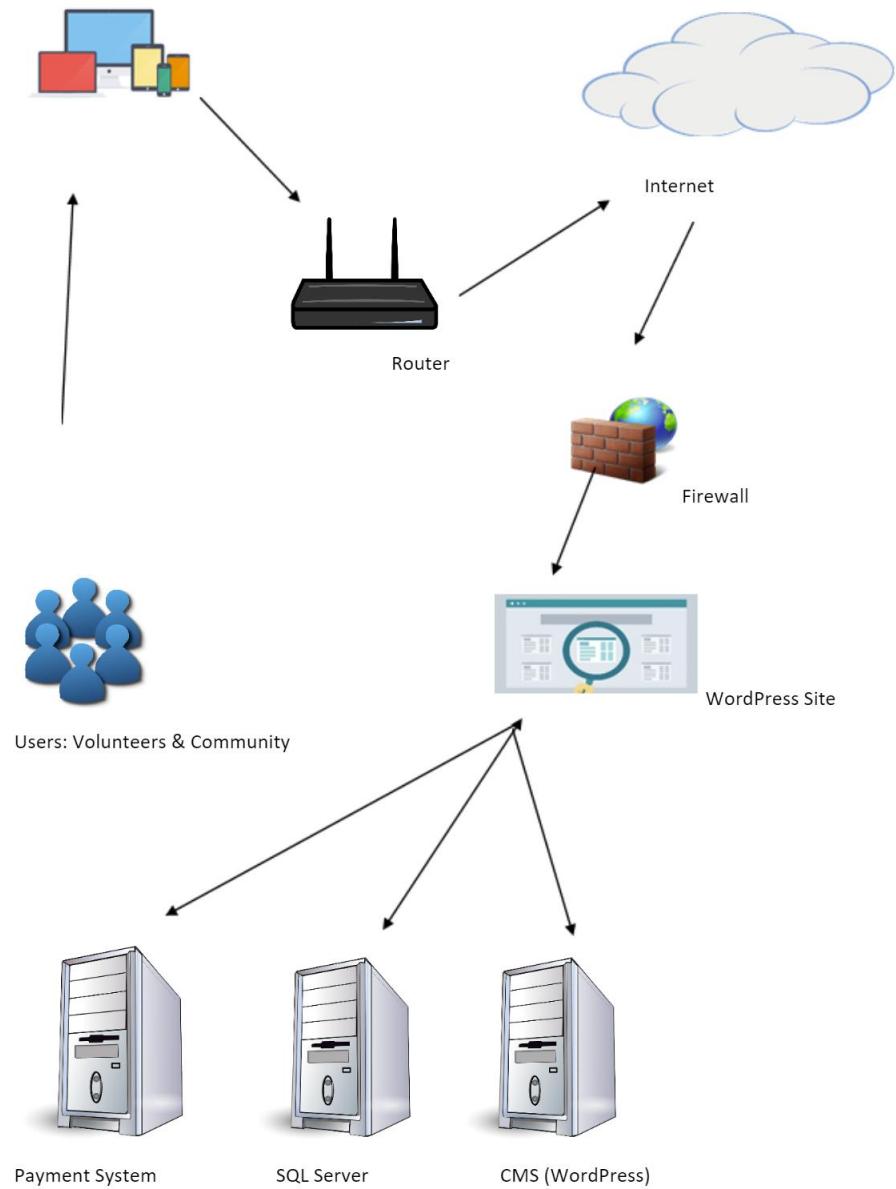
Design View:

With guidance from the University of Louisville IT department, we plan to create a WordPress website that is protected from the firewalls of the University. The site will run from University servers to allow access to all community members.



## Realization View:

In this viewpoint, we put into pictures what we plan to implement. We plan to use WordPress and university firewalls to create a maintainable website for the Cardinal Cupboard.



## **Design Procedures for Security Concerns**

In terms of non-functional requirements, it's best for Cardinal Cupboard to make an Instagram to broaden their audience of the amount of students aware of the Cardinal Cupboard, whether they are an incoming student or current student. Creating an Instagram is a marketing strategy for improvement. Instagram and their other social medias can be monitored through firewalls, administrators, and through close communication with the guidelines of the app managers themselves.

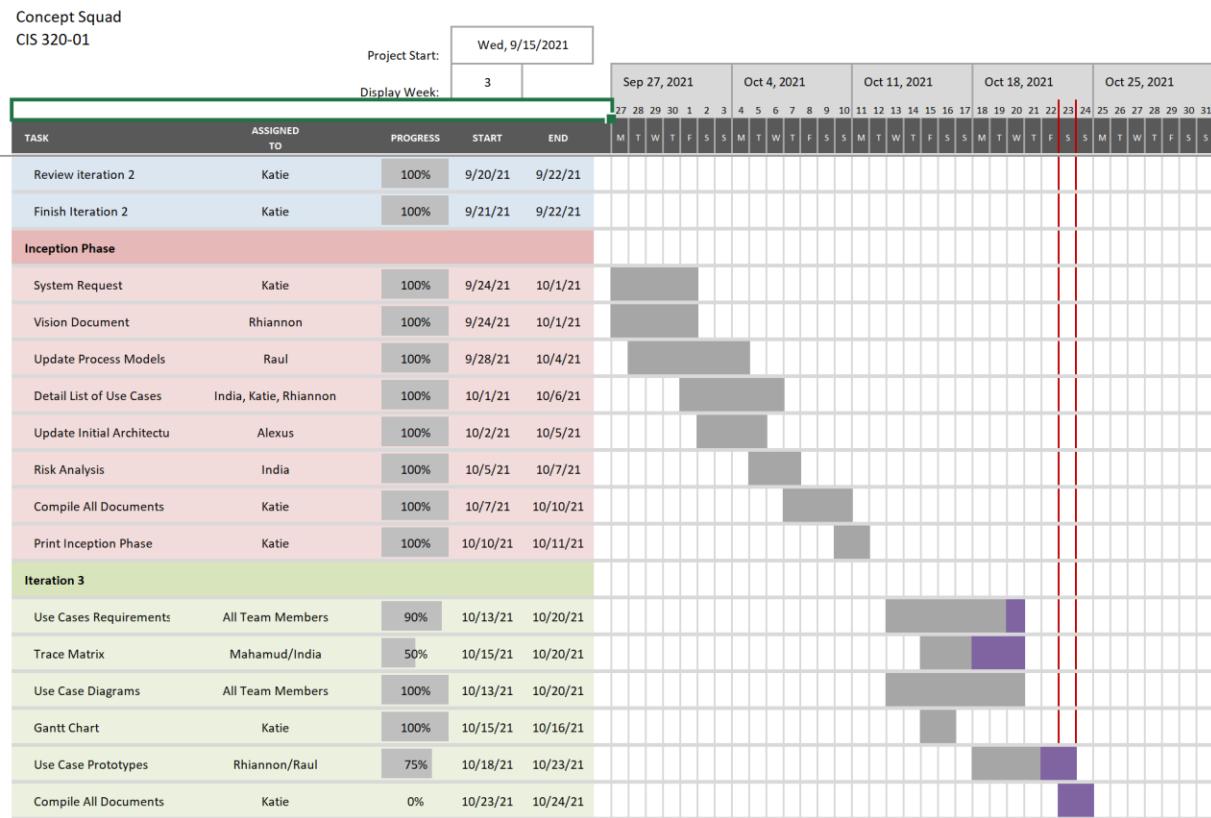
The PayPal system is a must for secure payments. Moreover, the PayPal app is accessible to any student, faculty, or outside visitor. It has its own security system built within its financial management, allowing some of the pressure to be taken off of the Cardinal Cupboard. Along with PayPal, another management technology the cupboard can use is GroupMe. GroupMe is a need to communicate with volunteer members for organization and easier multi-tasking transitions in case a volunteer needs to cancel due to emergency. Moreover, to assure no volunteer is double booked, it can keep everyone up to date for open and closing dates, and to stay up to par on CDC social distancing guidelines.

In order to understand the food security of their items, it is mandatory to understand length of time an item is in the pantry by tracking inventory regularly using a spreadsheet to keep up with produce and goods expiration dates and to make sure the organization does not run out of food while in production. It's essential for Cardinal Cupboard to operate food recovery network with Aramark to utilize all food resources on campus to assist those they need food at home. Moreover, Food will be given to the Cupboard from restaurants at the end of the day and events that ends and have fresh left-over food.

## Gantt Chart

This Gantt Chart details the timeline our team expects to follow in order to meet project deadlines. Team members are assigned to specific tasks in the left column and are given a time frame to complete the associated assignment. This allows us to stay on track for the Cardinal Cupboard and gives us float time to work together on larger tasks.

### **Updating The Cardinal Cupboard's Business Processes**



TASK	ASSIGNED TO	PROGRESS	START	END	Nov 15, 2021				Nov 22, 2021				Nov 29, 2021				Dec 6, 2021				Dec 13, 2021											
					M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
<b>Iteration 5</b>																																
Class Diagram	All Team Members	100%	11/15/21	11/22/21																												
Database Design	All Team Members	100%	11/17/21	11/22/21																												
Database Dictionary	Mahamud	100%	11/22/21	11/24/21																												
Gantt Chart	Katie	100%	11/15/21	11/17/21																												
Windows Nav Diagram	Alexus/Raul	100%	11/22/21	11/28/21																												
User Interface Prototype	All Team Members	100%	11/15/21	11/28/21																												
Compile All Documents	Katie/ India	100%	11/28/21	11/29/21																												
<b>Elaboration Specification</b>																																
System Requirements	Mahamud	100%	12/6/21	12/8/21																												
User Case Diagram	All Team Members	100%	12/7/21	12/10/21																												
Trace Matrix	Katie	100%	12/6/21	12/7/21																												
Use Cases	Rhiannon/Katie/Mahamud	100%	12/6/21	12/8/21																												
Sequence Diagrams	Raul	80%	12/9/21	12/10/21																												
Class Diagram(s)	All Team Members	75%	12/6/21	12/12/21																												
Database Design/Def	Mahamud/India	100%	12/10/21	12/11/21																												
Windows Nav Diagram	Alexus	50%	12/8/21	12/11/21																												
Physical Architecture De	Alexus	100%	12/6/21	12/8/21																												
Design Procedures	India	25%	12/6/21	12/12/21																												
Gantt Chart	Katie	100%	12/6/21	12/7/21																												
Elaboration Prototypes	All Team Members	25%	12/6/21	12/12/21																												
Compile All Documents	Katie		12/7/21	12/12/21																												
Complete Presentation	Katie	10%	12/8/21	12/13/21																												

## Website Prototypes

**UNIVERSITY OF LOUISVILLE.**

### Cardinal Cupboard

**Home   About Us   Get Help   Volunteer   Donate   Log In**

Click & Cook Recipes  
Calendar  
Pick Up  
Post Visit Survey  
Sponsor Event Request  
FAQ  
Contact Us



Information on the Cardinal Cupboard  
Covid-19 Guidelines

**Food Saved from Landfills**  
#### lbs.  
**Meals Served to the Community**  
###  
**Community Members Served**  
###

**Contact Info**  
Email  
Phone Number

**Hours of Operation**  
Monday to Friday  
9:00am to 6:00PM

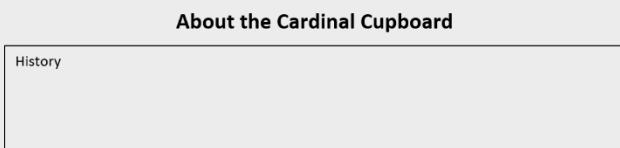
**Location**  
Swain Student Activities Center,  
W312

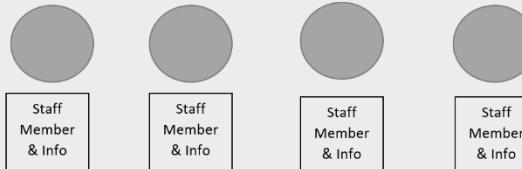
**UNIVERSITY OF LOUISVILLE.**

### Cardinal Cupboard

**Home   About Us   Get Help   Volunteer   Donate   Log In**

Click & Cook Recipes  
Calendar  
Pick Up  
Post Visit Survey  
Sponsor Event Request  
FAQ  
Contact Us



  
Staff Member & Info  
Staff Member & Info  
Staff Member & Info  
Staff Member & Info

**Contact Info**  
Email  
Phone Number

**Hours of Operation**  
Monday to Friday  
9:00am to 6:00PM

**Location**  
Swain Student Activities Center,  
W312

**UNIVERSITY OF LOUISVILLE.**

## Cardinal Cupboard

[Home](#) [About Us](#) [Get Help](#) [Volunteer](#) [Donate](#)  [Log In](#)

Click & Cook Recipes

Calendar

Pick Up

Post Visit Survey

Sponsor Event Request

FAQ

Contact Us

**Program Involvement Options**

Donate

Grab & Go

Volunteer Events

Get Help

**Contact Info**

Email  
Phone Number

**Hours of Operation**

Monday to Friday  
9:00am to 6:00PM

**Location**

Swain Student Activities Center,  
W312

**UNIVERSITY OF LOUISVILLE.**

## Cardinal Cupboard

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Click & Cook Recipes

Calendar

Pick Up

Post Visit Survey

Sponsor Event Request

FAQ

Contact Us

**January**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	31 New Year's Eve	1 New Year's Day	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19 Martin Luther King Day	20	21	22	23	24
25	26	27	28	29	30	31

**Contact Info**

Email  
Phone Number

**Hours of Operation**

Monday to Friday  
9:00am to 6:00PM

**Location**

Swain Student Activities Center,  
W312

**UNIVERSITY OF LOUISVILLE**

## Cardinal Cupboard

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[Calendar](#)  
[Pick Up](#)  
[Post Visit Survey](#)  
[Sponsor Event Request](#)  
[FAQ](#)  
[Contact Us](#)



**Donate Food**

Guidelines for food acceptable to donate  
Information on when and where to drop off donations

[Donate through Amazon](#)

**Donate Funds**

Information on what the monetary donation does for the Cardinal Cupboard

[Donate Now](#)

**Contact Info**

Email  
Phone Number

**Hours of Operation**

Monday to Friday  
9:00am to 6:00PM

**Location**

Swain Student Activities Center,  
W312

**UNIVERSITY OF LOUISVILLE**

## Cardinal Cupboard

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[Click & Cook Recipes](#)  
[Calendar](#)  
[Pick Up](#)  
[Post Visit Survey](#)  
[Sponsor Event Request](#)  
[FAQ](#)  
[Contact Us](#)

**Frequently Asked Questions**

**Where is the Cardinal Cupboard located?**  
The Cardinal Cupboard is located in the Swain Student Activities Center (SAC) Suite W312. It is on the 3<sup>rd</sup> floor past the offices.

**What donations are accepted?**  
The Cardinal Cupboard accepts nonperishable items such as canned food, cereal, fruit pouches, and drinks. We also accept new hygiene products such as toothbrushes, toothpaste, hairbrushes, toilet paper, paper towels, etc. For a more expansive list, visit XXXXX.

**How can I get involved?**  
If you are interested in being a part of the Cardinal Cupboard or wishing to donate, visit one of these links.

**What can I do if I have food leftover from an event?**

**Contact Info**

Email  
Phone Number

**Hours of Operation**

Monday to Friday  
9:00am to 6:00PM

**Location**

Swain Student Activities Center,  
W312

UNIVERSITY OF  
**LOUISVILLE**

## Cardinal Cupboard

[Home](#) [Contact Info](#) [Manage Users](#) [Manage Schedules](#) [System Admin](#)  [Log Out](#)

[Upcoming Events](#)  
[Previous Events](#)  
[Edit Event](#)  
[Event Requests](#)

### Events

Monthly View
 Weekly View
 Daily View

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

**Contact Info**

Email  
Phone Number

**Hours of Operation**

Monday to Friday  
9:00am to 6:00PM

**Location**

Swain Student Activities Center,  
W312

UNIVERSITY OF  
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## Cardinal Cupboard

[Home](#) [Contact Info](#) [Manage Users](#) [Manage Schedules](#) [System Admin](#)  [Log Out](#)

[Upcoming Schedule](#)  
[Previous Schedule](#)  
[Edit Schedule](#)

### Shifts

Private
 Public

ID Number:

**Submit**

**Contact Info**

Email  
Phone Number

**Hours of Operation**

Monday to Friday  
9:00am to 6:00PM

**Location**

Swain Student Activities Center,  
W312

UNIVERSITY OF LOUISVILLE

## Cardinal Cupboard

**Home** **Contact Info** **Manage Users** **Manage Schedules** **System Admin** **Log Out**

Pick Up  Inventory  Donors  Event Requests	<div style="border: 1px solid #ccc; padding: 10px; background-color: #f9f9f9;"> <p><b>Add a Donation</b></p> <p style="text-align: center;"> New Donor    Previous Donor</p> <p><b>Organization Name:</b> <input type="text"/></p> <p><b>First Name:</b> <input type="text"/></p> <p><b>Last Name:</b> <input type="text"/></p> <p><b>Date:</b> <input type="text"/></p> <p><b>E-mail:</b> <input type="text"/></p> <p><b>Phone Number:</b> <input type="text"/></p> <p><b>Amount of Donation:</b> <input type="text"/></p> <p><b>Payment method Used:</b> <input type="text"/></p> <p style="text-align: center;"><b>Submit</b></p> </div>			
	<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center; padding-bottom: 5px;"> <b>Contact Info</b>            Email            Phone Number         </td> <td style="width: 33%; text-align: center; padding-bottom: 5px;"> <b>Hours of Operation</b>            Monday to Friday            9:00am to 6:00PM         </td> <td style="width: 33%; text-align: center; padding-bottom: 5px;"> <b>Location</b>            Swain Student Activities Center,            W312         </td> </tr> </table>	<b>Contact Info</b> Email Phone Number	<b>Hours of Operation</b> Monday to Friday 9:00am to 6:00PM	<b>Location</b> Swain Student Activities Center, W312
<b>Contact Info</b> Email Phone Number	<b>Hours of Operation</b> Monday to Friday 9:00am to 6:00PM	<b>Location</b> Swain Student Activities Center, W312		

UNIVERSITY OF LOUISVILLE

## Cardinal Cupboard

**Home** **Contact Info** **Manage Users** **Manage Schedules** **System Admin** **Log Out**

Pick Up  Inventory  Donors  Event Requests	<div style="border: 1px solid #ccc; padding: 10px; background-color: #f9f9f9;"> <p><b>Add a Donation</b></p> <p style="text-align: center;"> New Donor    Previous Donor</p> <p style="text-align: center;"> Search by Name    Search by Phone#    Search by email    Search by Date</p> <p><b>Enter Email:</b> <input type="text"/></p> <p><b>Date:</b> <input type="text"/></p> <p><b>Amount of Donation:</b> <input type="text"/></p> <p><b>Payment method Used:</b> <input type="text"/></p> <p style="text-align: center;"><b>Submit</b></p> </div>			
	<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center; padding-bottom: 5px;"> <b>Contact Info</b>            Email            Phone Number         </td> <td style="width: 33%; text-align: center; padding-bottom: 5px;"> <b>Hours of Operation</b>            Monday to Friday            9:00am to 6:00PM         </td> <td style="width: 33%; text-align: center; padding-bottom: 5px;"> <b>Location</b>            Swain Student Activities Center,            W312         </td> </tr> </table>	<b>Contact Info</b> Email Phone Number	<b>Hours of Operation</b> Monday to Friday 9:00am to 6:00PM	<b>Location</b> Swain Student Activities Center, W312
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UNIVERSITY OF LOUISVILLE.

## Cardinal Cupboard

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Pick Up	Create Volunteer
Inventory	Delete Volunteer
Donors	Create Staff
Event Requests	Delete Staff

**Home Page**

**Contact Info**  
Email  
Phone Number

**Hours of Operation**  
Monday to Friday  
9:00am to 6:00PM

**Location**  
Swain Student Activities Center,  
W312

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Audit Log	<b>History</b>
<a href="#"></a> <a href="#"></a> <a href="#"></a> <a href="#"></a>	Staff Volunteer <p>Shift and Calendar Events that have been Edited</p>

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<a href="#">Pick Up</a> <a href="#">Inventory</a> <a href="#">Donors</a> <a href="#">Event Requests</a>	<h3>Create Volunteer</h3> <p>First Name: <input type="text"/></p> <p>Last Name: <input type="text"/></p> <p>Student ID: <input type="text"/></p> <p>Phone Number: <input type="text"/></p> <p>E-mail Address: <input type="text"/></p> <p style="text-align: center;"><b>Submit</b></p> <div style="text-align: center; margin-top: 20px;">     </div>
<a href="#">Contact Info</a> <a href="#">Hours of Operation</a> <a href="#">Location</a> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <b>Contact Info</b>  Email  Phone Number </div> <div style="text-align: center;"> <b>Hours of Operation</b>  Monday to Friday  9:00am to 6:00PM </div> <div style="text-align: center;"> <b>Location</b>  Swain Student Activities Center,  W312 </div> </div>	

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<a href="#">Pick Up</a> <a href="#">Inventory</a> <a href="#">Donors</a> <a href="#">Event Requests</a>	<h3>Cancel a Shift - Volunteer</h3> <p>Volunteer Name: <input type="text"/></p> <p>Date: <input type="text"/></p> <p>Available Shifts:</p> <table style="margin-left: 20px; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/></td> <td>11/29/2021</td> <td>9am-11am</td> </tr> <tr> <td><input type="checkbox"/></td> <td>11/29/2021</td> <td>4pm-6pm</td> </tr> </table> <p style="text-align: center;"><b>Submit</b></p> <div style="text-align: center; margin-top: 20px;">     </div>	<input checked="" type="checkbox"/>	11/29/2021	9am-11am	<input type="checkbox"/>	11/29/2021	4pm-6pm
<input checked="" type="checkbox"/>	11/29/2021	9am-11am					
<input type="checkbox"/>	11/29/2021	4pm-6pm					
<a href="#">Contact Info</a> <a href="#">Hours of Operation</a> <a href="#">Location</a> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <b>Contact Info</b>  Email  Phone Number </div> <div style="text-align: center;"> <b>Hours of Operation</b>  Monday to Friday  9:00am to 6:00PM </div> <div style="text-align: center;"> <b>Location</b>  Swain Student Activities Center,  W312 </div> </div>							

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Pick Up

Inventory

Donors

Event Requests

### Delete Staff

Staff First Name Last Name  
Staff First Name Last Name

Delete

Contact Info

Email  
Phone Number

Hours of Operation

Monday to Friday  
9:00am to 6:00PM

Location

Swain Student Activities Center,  
W312

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### Delete Volunteer

Volunteer First Name Last Name  
Volunteer First Name Last Name

Confirm Delete <Volunteer Name>

Delete

Confirm

Contact Info

Email  
Phone Number

Hours of Operation

Monday to Friday  
9:00am to 6:00PM

Location

Swain Student Activities Center,  
W312

## Cardinal Cupboard

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Check-In/ Check-Out

Inventory

### Check-In/ Check-Out

You are currently clocked in at the Cardinal Cupboard for the <DATE and TIME> shift.

[Check-Out](#)[Contact Info](#)Email  
Phone Number[Hours of Operation](#)Monday to Friday  
9:00am to 6:00PM[Location](#)Swain Student Activities Center,  
W312

## Cardinal Cupboard

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Pick Up

Inventory

Donors

Event Requests

### Removing Inventory

[View list](#)      [Search](#)

Search for Inventory:

Inventory selected:

Quantity to remove:

[Submit](#)[Contact Info](#)Email  
Phone Number[Hours of Operation](#)Monday to Friday  
9:00am to 6:00PM[Location](#)Swain Student Activities Center,  
W312

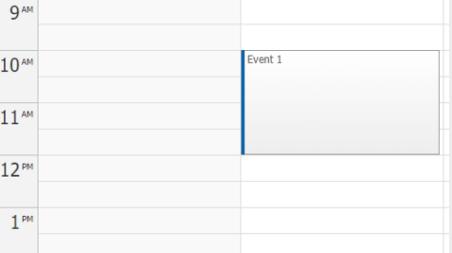
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## Cardinal Cupboard

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Check-In/ Check-Out

Inventory



**Event Calendar**



**Contact Info**

Email  
Phone Number

**Hours of Operation**

Monday to Friday  
9:00am to 6:00PM

**Location**

Swain Student Activities Center,  
W312

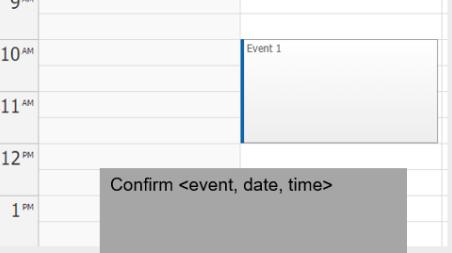
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## Cardinal Cupboard

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Check-In/ Check-Out

Inventory





**Event Calendar**

**Contact Info**

Email  
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