Assignment 3

SHIVANI PATEL

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System Requirements

The *system requirements* are the requirements that we have identified the proposed system to need. Included are all potential requirements that we identified while collecting information from HOOF.

Functional requirements

1. Manage Volunteers data:
    a. The system will collect volunteers information.
    b. The system will store volunteers information.
    c. The system will be able to delete/modify volunteer information.
2. Manage participants data:
    a. The system will track participants information.
    b. The system will store participants information.
    c. The system will be able to delete/modify participants information.
3. Manage donors data:
    a. The system will collect donor information.
    b. The system will Store donor information.
    c. The system will be able to delete/modify donor information.
4. Produce events:
    a. The system will allow Auction director to manage events.
    b. The system will allow director of public relations to manage public relationships and marketing.
    c. The system will support the social media features
5. Manage website:
    a. The HOOF administrators will be able to add content on the website.
    b. The HOOF administrators will be able to update content on the website.
    c. The HOOF administrators will be able to delete/modify content on the website.

Non-functional requirement

1. Operational requirements
    a. The system will operate in windows environment.
    b. The system should be able to connect to peripheral devices.
    c. The system should have the capability to perform routine backup.
    d. The system will centralize data that can be stored on a cloud platform.
    e. The system will use Microsoft office suite application for basic business processes.
2. Performance requirements.
    a. The system will store new applications.

b. The system will retrieve new applications.
c. The system will allow data to be easily shared amongst users.
d. The system should be able to track volunteers hours
e. The system will allow users to collect financial data via *Excel*

3. Security requirements.
    a. Users will be granted permissions as operate.
    b. All devices should be password protected.

The system should be able to track users activities on the website.

Trace Matrix

USE CASES:	Manage Silent Auction Item	Support Social Media	Store Donor Information	Store Donations
Add Silent Auction Item	x			
Delete Silent Auction Item	x			
Edit Silent Auction Item	x			
Add Silent Auction		x		
Edit Silent Auction		x		
Delete Silent Auction		x		
Add a Donor			x	
Edit a Donor			x	
Add Recurring Donation				x
Edit Recurring Donation				x
Delete Recurring Donation				x

This trace matrix represents the use cases and their associated system requirement for the envisioned HOOF system. An 'X' is placed where a use case intersects with the associated system requirement.

USE CASES:

Use Case Specification: Add a Donor

Add a Donor

Brief Description

A HOOF administrator will be able to add a Donor's information.

Flow of Events

Basic Flow

- Input donor ID
- Input donor first name
- Input donor middle initial
- Input donor last name
- Input donor email
- Input donor street address
- Input donor city
- Input donor state
- Input donor zip code
- Click Submit

Alternative Flows

< Middle Initial can be null >

If there is no middle initial, the middle initial field can be left null.

< Null error message>

If any fields other than the middle initial are null a message will be displayed to the user prompting them to fill in the missing field(s).

Special Requirements

- Administrator must use a computer with internet access

Pre-conditions

- Administrator must be logged in to Azure database.

Post-conditions

- Donor is saved.

Use Case Specification: Edit a Donor

Edit a Donor

Brief Description

A HOOF administrator will be able to edit a donor's information.

Flow of Events

Basic Flow

- Edit donor ID
- Edit donor first name
- Edit donor middle initial
- Edit donor last name
- Edit donor email
- Edit donor street address
- Edit donor city
- Edit donor state
- Edit donor zip code
- Click submit

Alternative Flows

< Middle Initial can be null >

If there is no middle initial, the middle initial field can be left null.

< Null error message>

If any fields other than the middle initial are null a message will be displayed to the user prompting them to fill in the missing field(s).

Special Requirements

- Administrator must use a computer with internet access

Pre-conditions

- Administrator must be logged into the Azure database
- A record for a donor must exist

Post-conditions

- The edits to the donor table will be saved in the Azure database

Use Case Specification: Add Recurring Donation

Add Recurring Donation

Brief Description

The donor will be able to add recurring donations.

Flow of Events

Basic Flow

- Donor enters Donor ID
- Donor enters First Name
- Donor enters Last Name
- Donor enters Middle initial
- Donor enters email
- Donor enters street address
- Donor enters city
- Donor enters state
- Donor enters zip code
- Donor enters amount in the Donation Amount field
- Donor selects one recurring option (One-Time, Weekly, Bi-Weekly, Monthly, Quarterly, Yearly)
- Donor enters date to start donating
- Donor enters Cardholder Name
- Donor enters Card Number
- Donor enter Card Expiration Month
- Donor enters Card Expiration Year
- Donor enters CVC
- Donor clicks submit

Alternative Flows

< Null error message>

If any fields are null a message will be displayed to the user prompting them to fill in the missing field(s).

< Credit Card Information >

An error message will be displayed if the Card Information is incorrect.

Special Requirements

- Donor must use a computer with internet access

Pre-conditions

- Donor must be on the donor page.

Post-conditions

- Donation is saved.

Use Case Specification: Edit Recurring Donation

Edit Recurring Donation

Brief Description

The donor will be able to edit a recurring donations.

Flow of Events

Basic Flow

- Donor edits First Name
- Donor edits Last Name
- Donor edits Middle initial
- Donor edits email
- Donor edits street address
- Donor edits city
- Donor edits state
- Donor edits zip code
- Donor edits amount in the Donation Amount field
- Donor selects one recurring option (One-Time, Weekly, Bi-Weekly, Monthly, Quarterly, Yearly)
- Donor edits date to start donating
- Donor edits Cardholder Name
- Donor edits Card Number
- Donor edits Card Expiration Month
- Donor edits Card Expiration Year
- Donor edits CVC
- Donor clicks submit

Alternative Flows

< Null error message>

If any fields are null a message will be displayed to the user prompting them to fill in the missing field(s).

<Left as is>

If editing a field is not necessary it can be left as is.

< Credit Card Information >

An error message will be displayed if the Card Information is incorrect.

Special Requirements

- Donor must use a computer with internet access

Pre-conditions

- Donor must be on payment portal.
- A record for a donor must exist

Post-conditions

- The edits to the payment portal will be saved.

Use Case Specification: Delete Recurring Donations

Delete Recurring Donations

Brief Description

A donor will be able to delete recurring donations.

Flow of Events

Basic Flow

- Administrator receives request to deactivate Donor
- Administrator clicks on “Donors” tab
- Administrator finds specified Donor
- Administrator clicks “Deactivate”
- Administrator clicks yes on dialog box next to are you sure you want to deactivate donor?

Special Requirements

- Donor must be logged in under an administrator account
- User must be logged in under a donor account

Pre-conditions

- Administrator must be *logged into* the Azure database
- A record for a donor must exist

Post-conditions

- The deletions in the Azure database are saved

Donor Deleted

Once the administrator deactivates the account, the login no longer works. The administrator can reactivate the account at the request of the donor at any point in time and functionality returns and the donor will be prompted to update his or her information.

Use Case Specification: Add Silent Auction

Add Silent Auction

Brief Description

A HOOF administrator will be able to add silent auctions to the silent auctions table

Flow of Events

Basic Flow

- Input silent auction id
- Input silent auction name
- Input silent auction date
- Input silent auction time
- Input silent auction venue
- Input silent auction manager
- Click submit
-

Alternative Flows

< Missing Date, Time and Venue>

If the silent auction has yet to establish a set date, time or venue these fields may be null

<Null Error Message>

- If any fields other than date, time and venue are null than a error message will be displayed to the user, prompting them to input a value into each required field

Special Requirements

- Administrator must use a computer with internet access

Pre-conditions

- Administrator must be *logged in* the Azure database

Post-conditions

- The additions to the silent auctions table will be saved in the Azure database

Use Case Specification: Delete Silent Auction

Delete Silent Auction

Brief Description

A HOOF administrator will be able to delete silent auction information from the auction table

Flow of Events

Basic Flow

- Select silent auction row to be deleted
- Right click
- Click delete
- Click submit

Special Requirements

- Administrator must use a computer with internet access

Pre-conditions

- Administrator must be *logged into* the Azure database
- A record for a silent auction must exist

Post-conditions

- The deletions to the auction table in the Azure database are saved

Use Case Specification: Edit Silent Auction

Edit Silent Auction

Brief Description

A HOOF administrator will be able to edit silent auction information in the auctions table

Flow of Events

Basic Flow

- Edit silent auction id number
- Edit silent auction name
- Edit silent auction date
- Edit silent auction time
- Edit silent auction venue
- Edit silent auction manager
- Click submit

Alternative Flow

< Missing Date, Time and Venue>

If the silent auction has yet to establish a set date, time or venue these fields may be null

<Null Error Message>

- If any fields other than date, time and venue are null than a error message will be displayed to the user, prompting them to input a value into each required field

Special Requirements

- Administrator must use a computer with internet access

Pre-conditions

- Administrator must be *logged into* the Azure database
- A record for a silent auction must exist

Post-conditions

- The edits to the auctions table in the Azure database are saved

Use Case Specification: Add Silent Auction Item

Add Silent Auction Item

Brief Description

A HOOF administrator will be able to add silent auction items to the inventory table

Flow of Events

Basic Flow

- Input inventory item name
- Input inventory item description
- Input inventory item quantity
- Input inventory sale status
- Click on Submit

Alternative Flows

< Item Sold>

- If the inventory item has been sold, input the auction id into the sale status

< Item Not Sold>

- If the inventory item has not been sold, input null for sale status

<Null Error Message>

- If any fields other than sale status are null, an error message will be displayed to the user prompting them to input a value into each required field

Special Requirements

- Administrator must use a computer with internet access

Pre-conditions

- Administrator must be *logged in* the Azure database in order to access the database

Post-conditions

- The additions to the inventory table will be saved in the Azure database

Use Case Specification: Delete Silent Auction Item

Delete Silent Auction Item

Brief Description

A HOOF administrator will be able to delete silent auction item from the inventory table

Flow of Events

Basic Flow

- Select silent auction row to be deleted
- Right click
- Click delete
- Click submit

Special Requirements

- Administrator must use a computer with internet access

Pre-conditions

- Administrator must be *logged into* the Azure database
- A record for a silent auction item must exist
-

Post-conditions

- The deletions to the inventory table in the Azure database are saved

Use Case Specification: Edit Silent Auction Item

Edit Silent Auction Item

Brief Description

A HOOF administrator will be able to edit silent auction items in the inventory table

Flow of Events

Basic Flow

- Edit inventory item name
- Edit inventory item description
- Edit inventory item quantity
- Edit inventory item price paid
- Click submit

Alternative Flows

< Item Sold>

- If the inventory item has been sold, input the auction id into the sale status

< Item Not Sold>

- If the inventory item has not been sold, input null for sale status

<Null Error Message>

- If any fields other than sale status are null, an error message will be displayed to the user prompting them to input a value into each required field

Special Requirements

- Administrator must use a computer with internet access

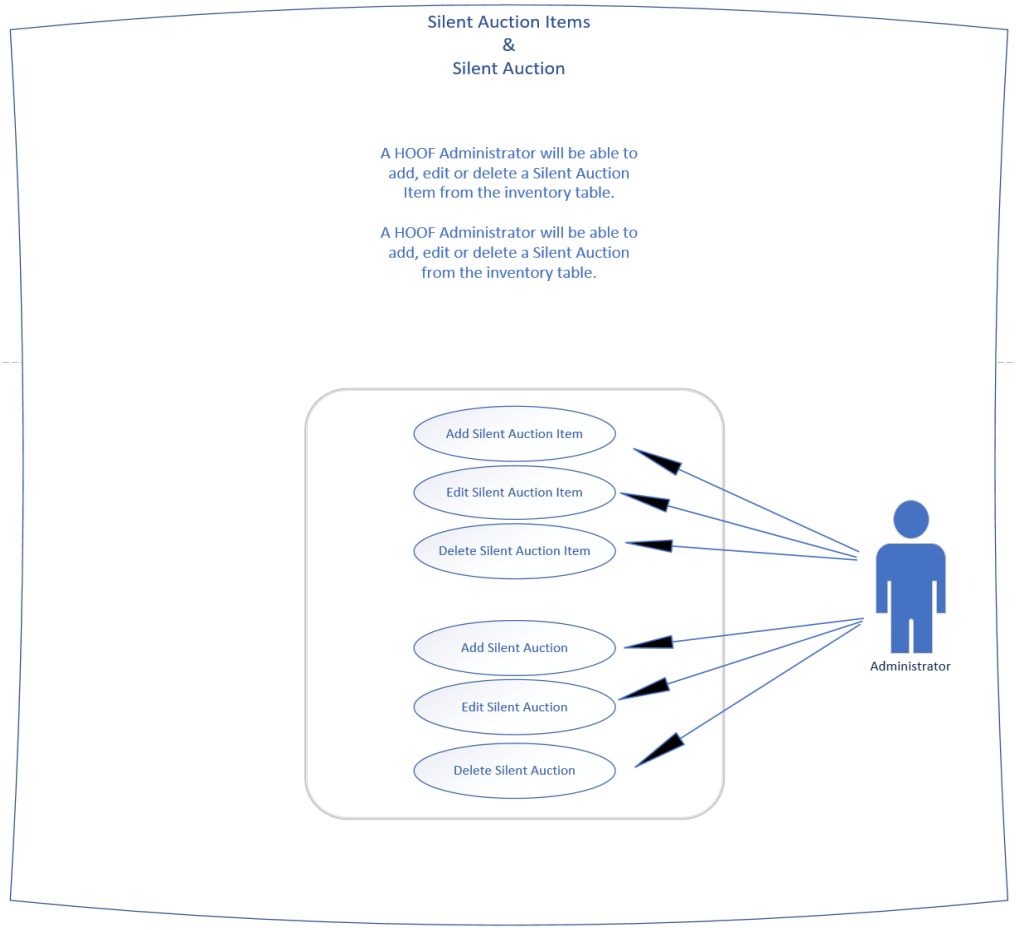
Pre-conditions

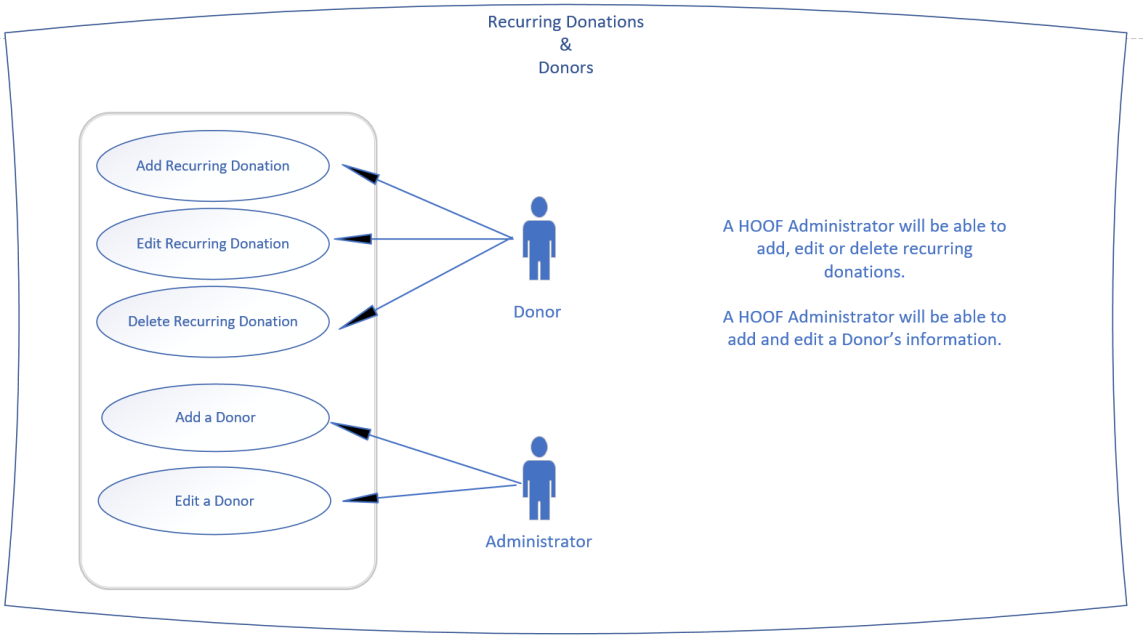
- Administrator must be *logged into* the Azure database
- A record for a silent auction item must exist

Post-conditions

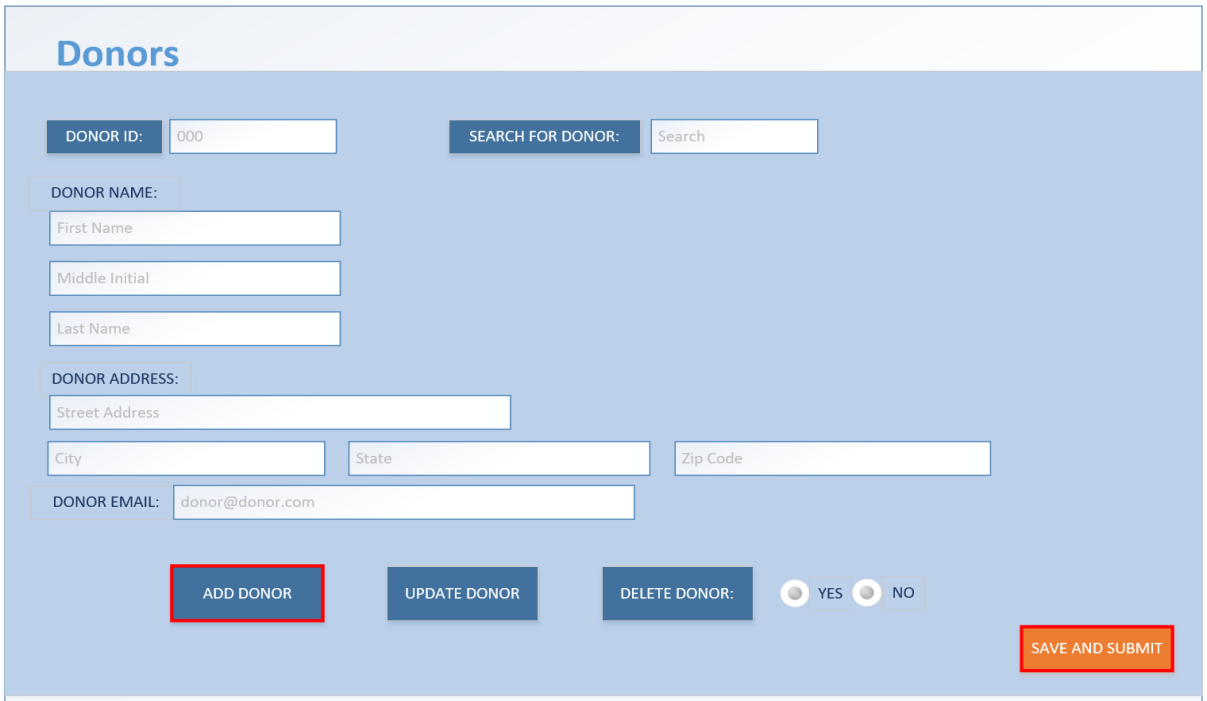
- The edits to the inventory table in the Azure database are saved

USE CASE DIAGRAMS

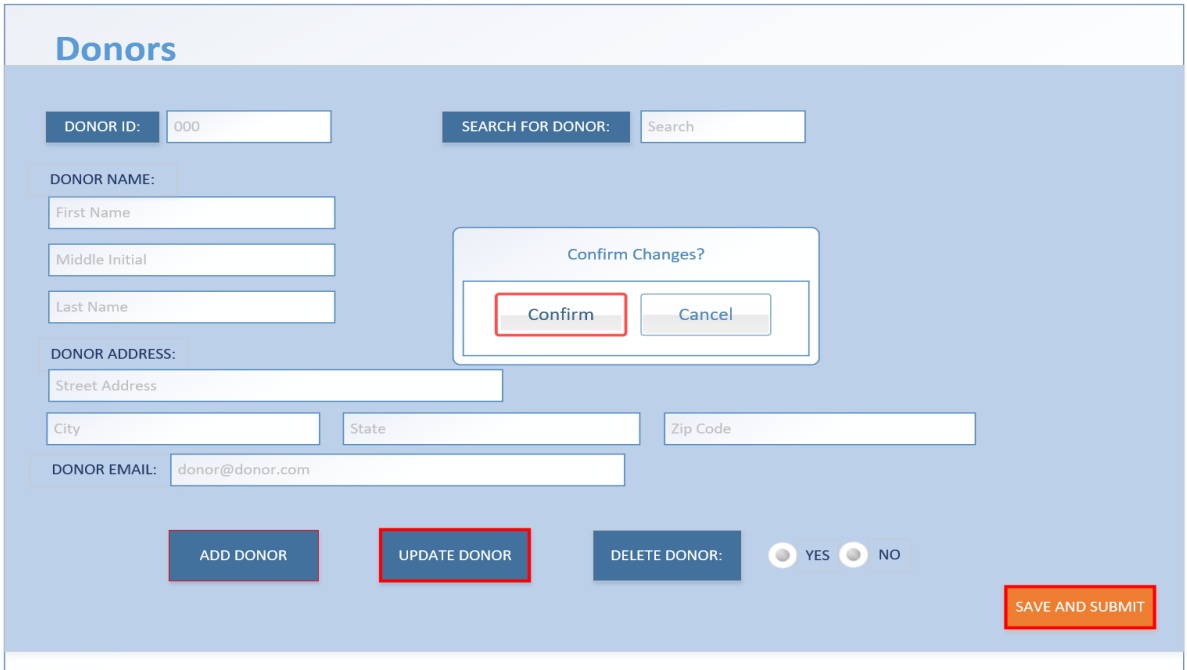




USE CASE PROTOTYPES



This is a prototype for the Add, Edit and Delete a Donor use cases. This data entry form enables a HOOF administrator to add/edit/delete records for donors into the Donor table in the Azure database. 'Search for Donor', 'Delete donor', 'Update Donor'are only applicable when editing or deleting an existing donor from the Donor table.



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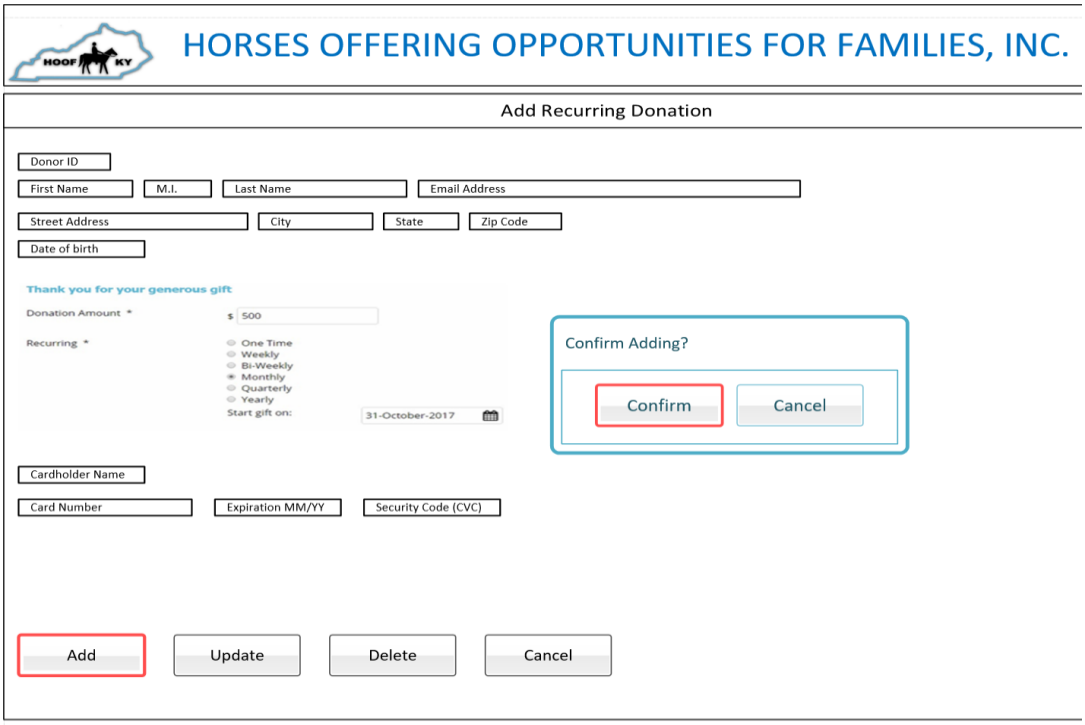
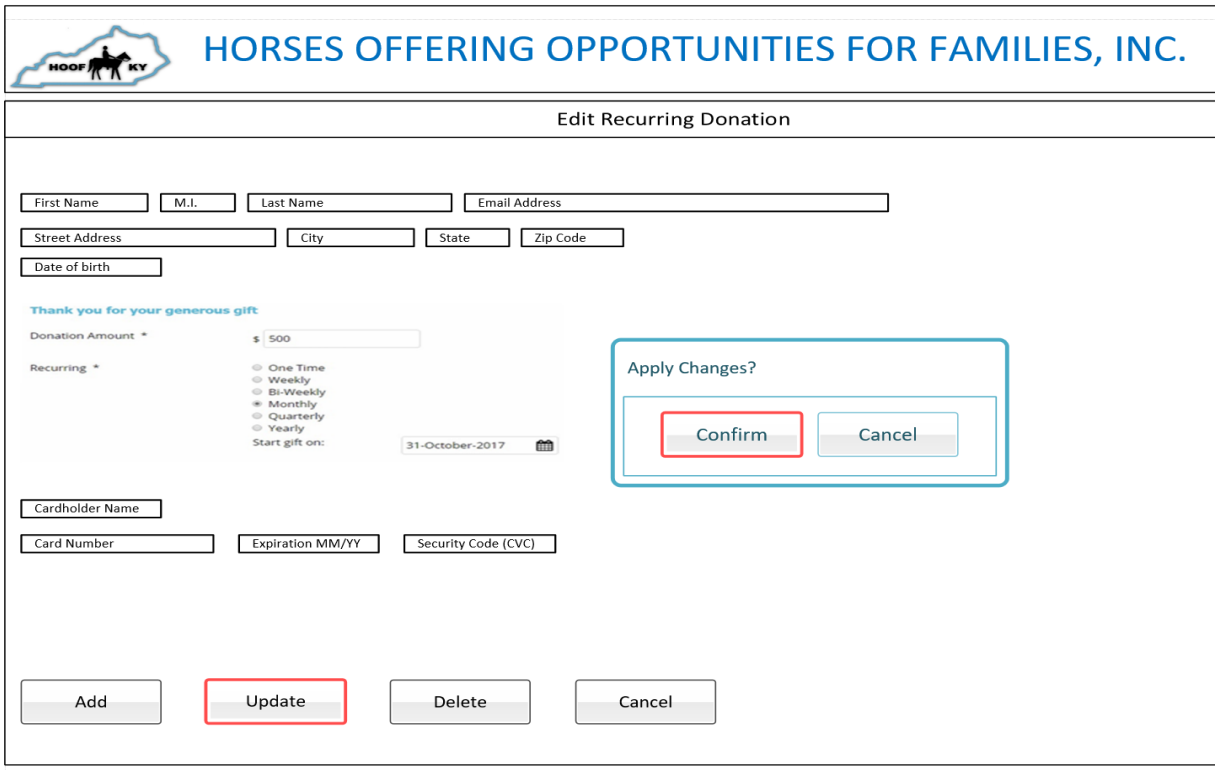
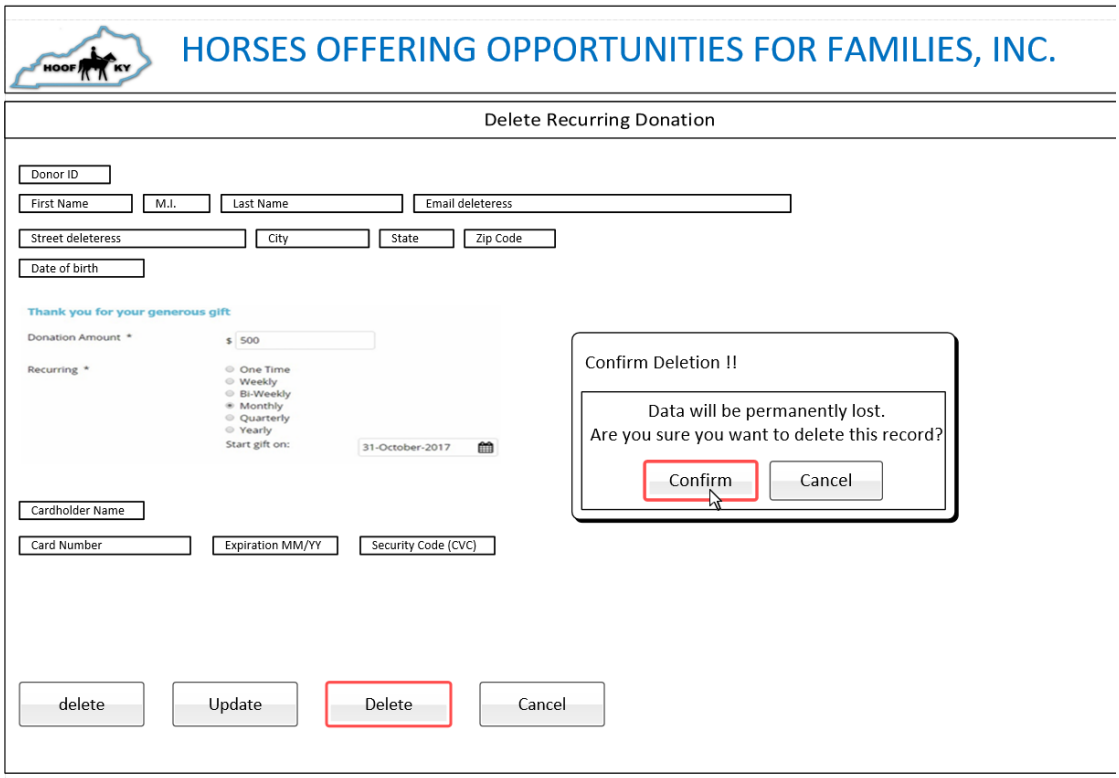


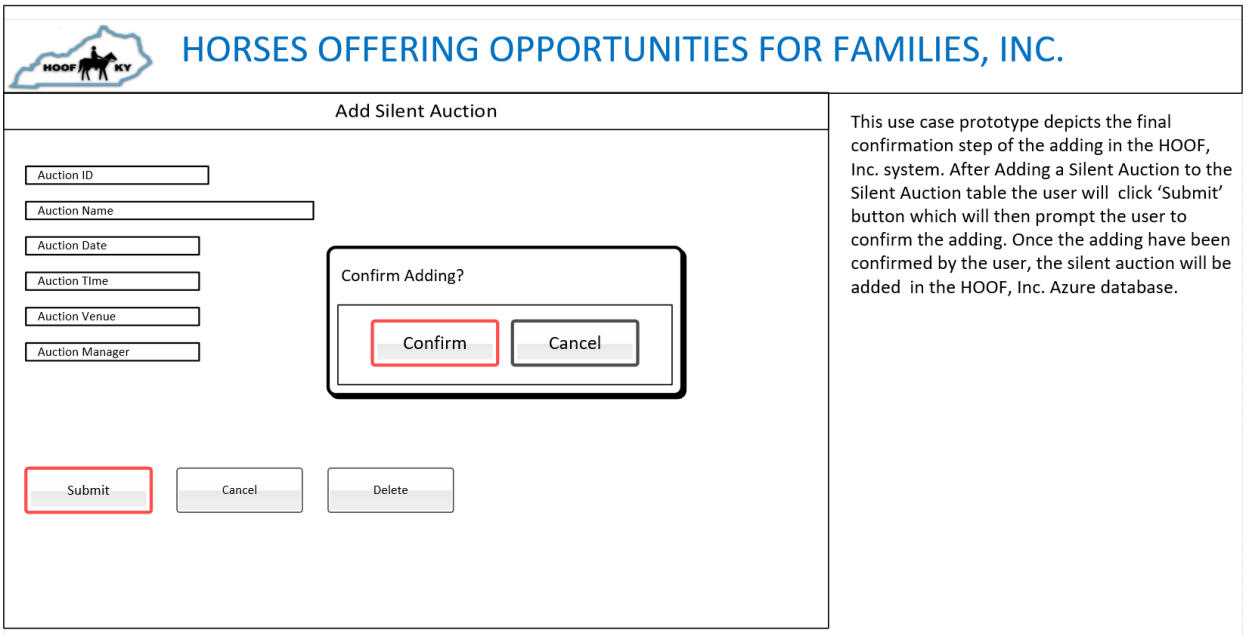
This use case prototype depicts the final confirmation step of the adding in the HOOF, Inc. system. After 'Adding a Recurring donation' to the donation table the donor will click 'Add' button which will then prompt the donor to confirm the adding. Once the adding have been confirmed by the donor, the record will be added in the HOOF, Inc. Azure database.



This use case prototype depicts the final confirmation step of the adding in the HOOF, Inc. system. After 'Editing a Recurring donation' to the donation table the donor will click 'Update' button which will then prompt the donor to spply changes. Once the changes have been confirmed by the donor, the record will be updated in the HOOF, Inc. Azure database.

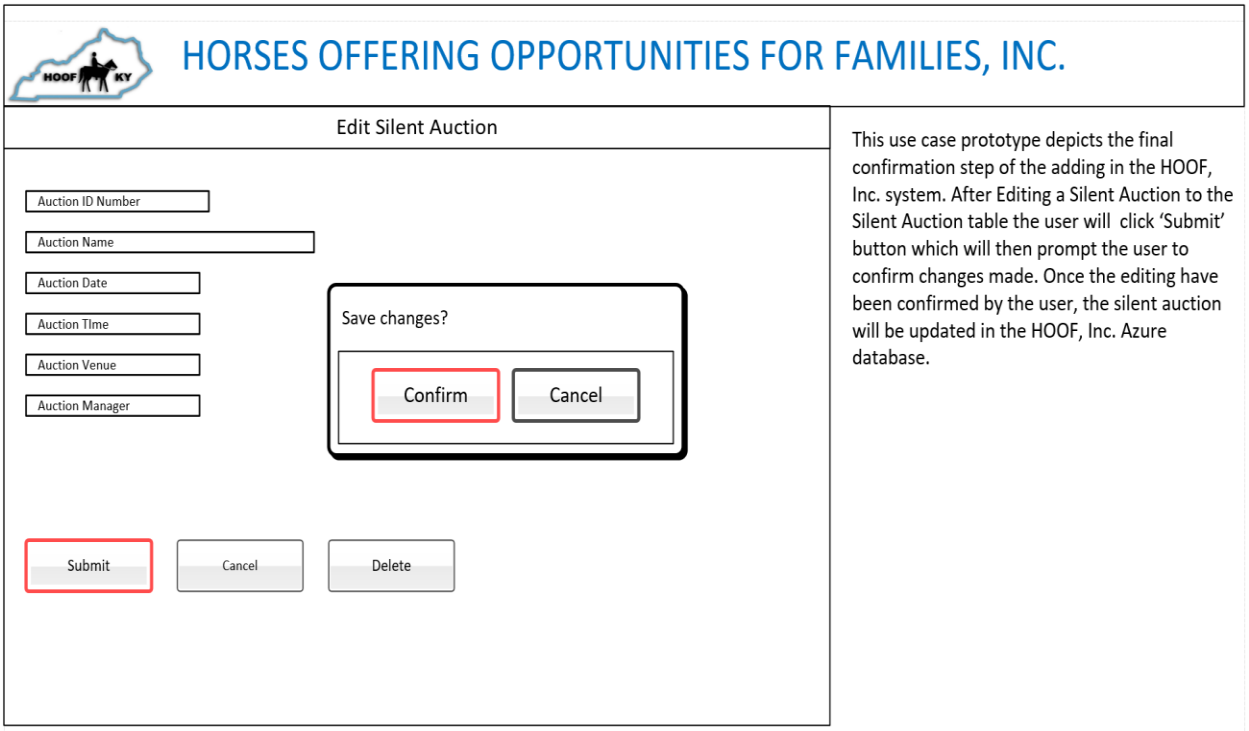


This use case prototype depicts the final confirmation step of the deleting in the HOOF, Inc. system. After 'deleting a Recurring donation' to the donation table the donor will click 'delete' button which will then prompt the donor to confirm the deleting. Once the deleting have been confirmed by the donor, the record will be deleted in the HOOF, Inc. Azure database.



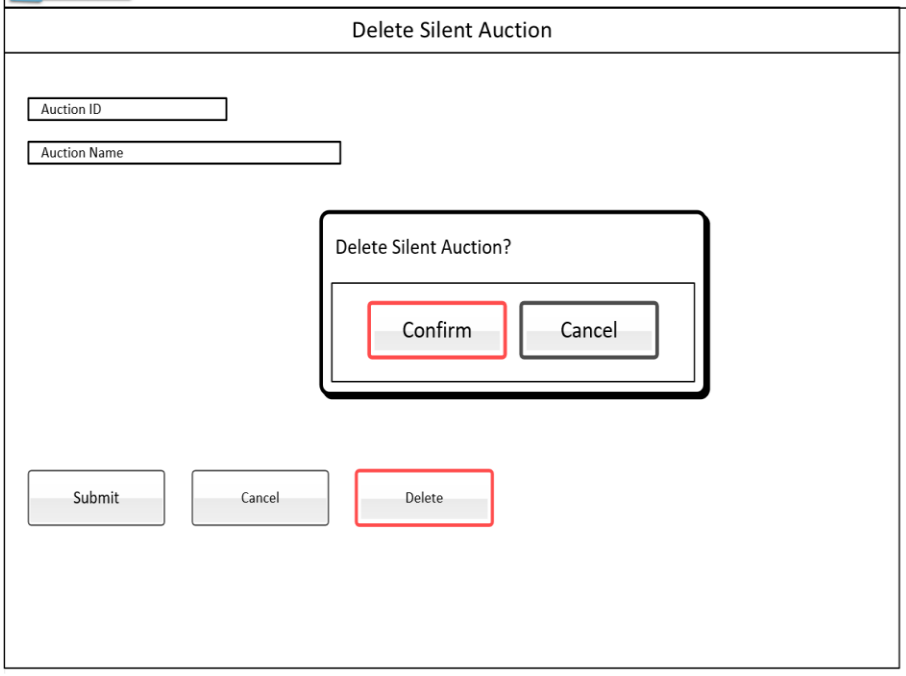
This use case prototype depicts the final confirmation step of the adding in the HOOF, Inc. system. After Adding a Silent Auction to the Silent Auction table the user will click 'Submit' button which will then prompt the user to confirm the adding. Once the adding have been confirmed by the user, the silent auction will be added in the HOOF, Inc. Azure database.

HORSES OFFERING OPPORTUNITIES FOR FAMILIES, INC.



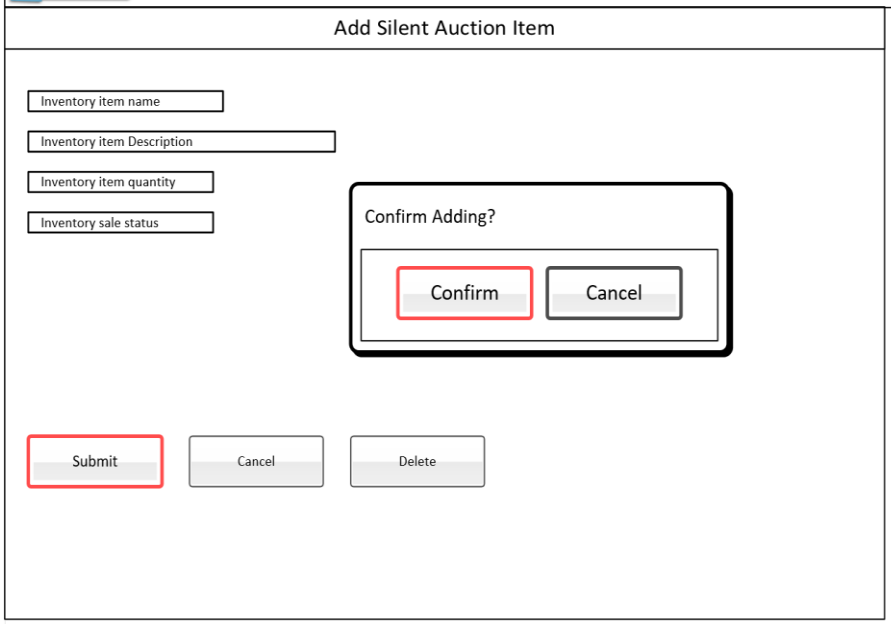
This use case prototype depicts the final confirmation step of the adding in the HOOF, Inc. system. After Editing a Silent Auction to the Silent Auction table the user will click 'Submit' button which will then prompt the user to confirm changes made. Once the editing have been confirmed by the user, the silent auction will be updated in the HOOF, Inc. Azure database.

HORSES OFFERING OPPORTUNITIES FOR FAMILIES, INC.



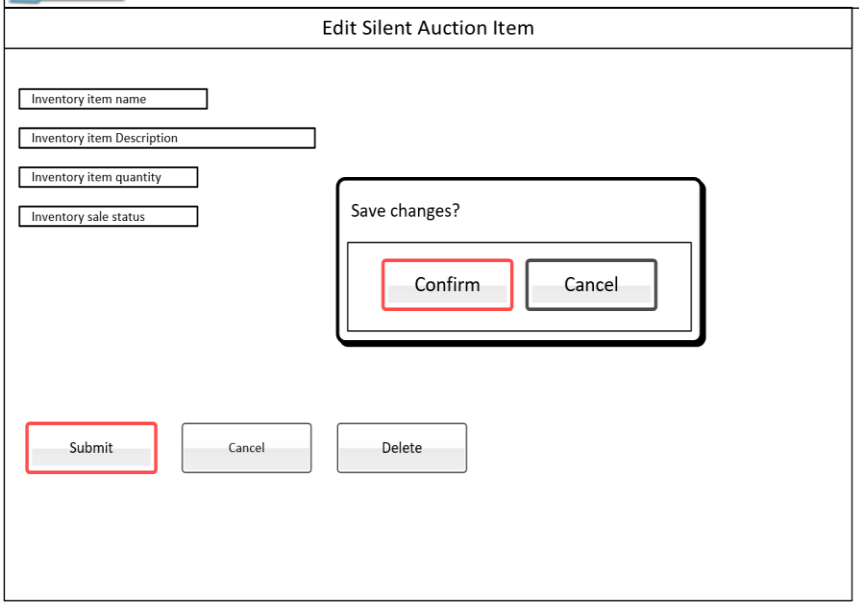
This use case prototype depicts the final confirmation step of the deleting in the HOOF, Inc. system. After Deleting a Silent Auction to the Silent Auction table the user will click 'Delete' button which will then prompt the user to confirm the deleting. Once the deleting have been confirmed by the user, the silent auction will be deleted in the HOOF, Inc. Azure database.

HORSES OFFERING OPPORTUNITIES FOR FAMILIES, INC.



This use case prototype depicts the final confirmation step of the adding in the HOOF, Inc. system. After Adding a Silent Auction Item to the Silent Auction Item table the user will click 'Submit' button which will then prompt the user to confirm the adding. Once the adding have been confirmed by the user, the silent auction item will be added in the HOOF, Inc. Azure database.

HORSES OFFERING OPPORTUNITIES FOR FAMILIES, INC.



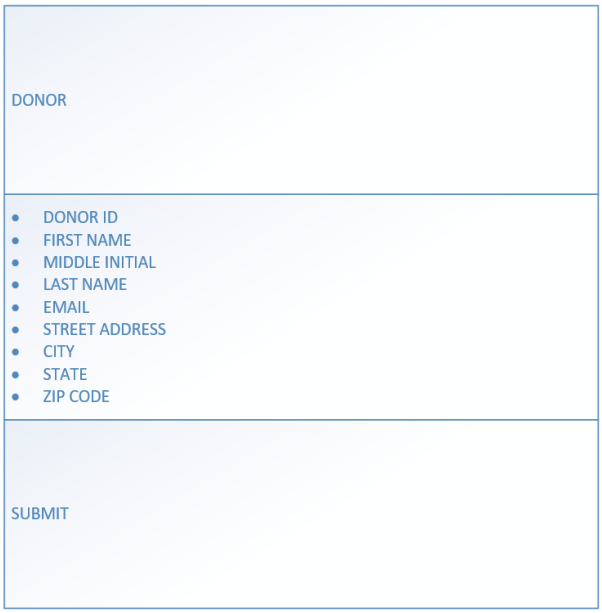
This use case prototype depicts the final confirmation step of the adding in the HOOF, Inc. system. After Editing a Silent Auction Item to the Silent Auction table the user will click 'Submit' button which will then prompt the user to confirm changes made. Once the editing have been confirmed by the user, the silent auction item will be updated in the HOOF, Inc. Azure database.

HORSES OFFERING OPPORTUNITIES FOR FAMILIES, INC.

This use case prototype depicts the final confirmation step of the deleting in the HOOF, Inc. system. After Deleting a Silent Auction Item to the Silent Auction table the user will click 'Delete' button which will then prompt the user to confirm the deleting. Once the deleting have been confirmed by the user, the silent auction item will be deleted in the HOOF, Inc. Azure database.

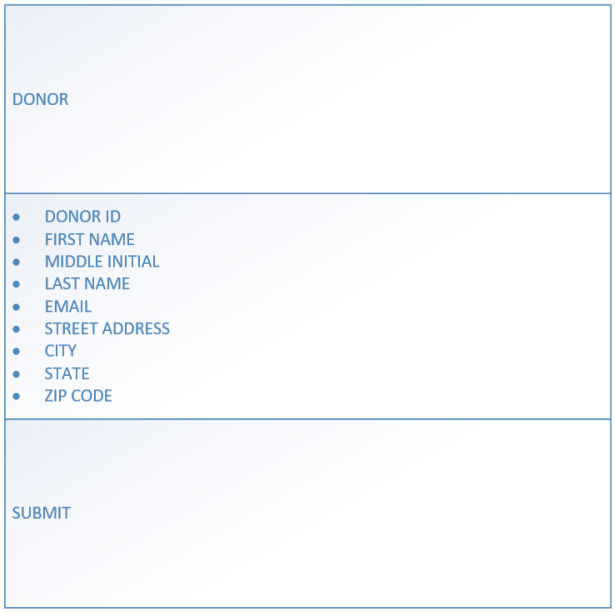
CLASS DIAGRAMS:

Add a Donor



This class diagram is for the 'Add a Donor' use case. The class this use case belongs to is, Donor. The middle of the diagram contains the attributes for this use case. The bottom of the diagram contains the methods for this use case.

Edit a Donor



This class diagram is for the 'Edit a Donor' use case. The class this use case belongs to is, Donor. The middle of the diagram contains the attributes for this use case. The bottom of the diagram contains the methods for this use case.

Add a Recurring Donation

RECURRING DONATION

- DONOR ID
- DONOR FIRST NAME
- DONOR LAST NAME
- DONOR MIDDLE INITIAL
- DONOR EMAIL
- DONOR STREET ADDRESS
- DONOR CITY
- DONOR STATE
- DONOR ZIP CODE
- DONATION AMOUNT
- ONE RECURRING OPTION
- DATE TO START DONATING
- DONOR CARDHOLDER NAME
- DONOR CARD NUMBER
- DONOR CARD EXPIRATION MONTH
- DONOR CARD EXPIRATION YEAR
- DONOR CVC

CLICK SUBMIT

This class diagram is to 'Add a Recurring Donation' use case. The class this use case belongs to is, Recurring Donation. The middle of the diagram contains the attributes for this use case. The bottom of the diagram contains the methods for this use case.

Edit a Recurring Donation

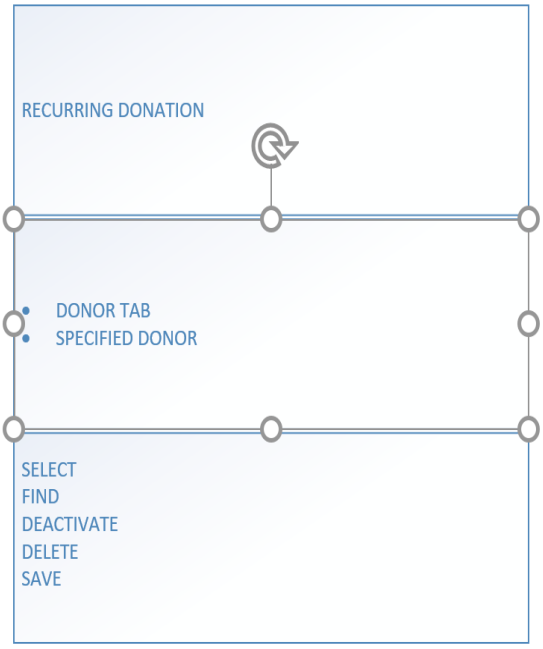
RECURRING DONATION

- DONOR FIRST NAME
- DONOR LAST NAME
- DONOR MIDDLE INITIAL
- DONOR EMAIL
- DONOR STREET ADDRESS
- DONOR CITY
- DONOR STATE
- DONOR ZIP CODE
- DONATION AMOUNT
- ONE RECURRING OPTION
- DATE TO START DONATING
- DONOR CARDHOLDER NAME
- DONOR CARD NUMBER
- DONOR CARD EXPIRATION MONTH
- DONOR CARD EXPIRATION YEAR
- DONOR CVC

CLICK SUBMIT

This class diagram is to 'Edit a Recurring Donation' use case. The class this use case belongs to is, Recurring Donation. The middle of the diagram contains the attributes for this use case. The bottom of the diagram contains the methods for this use case.

Delete a Recurring Donation



This class diagram is for the 'Delete a Recurring donation' use case. The class this use case belongs to is, Recurring donation. The middle of the diagram contains the attributes for this use case. The bottom of the diagram contains the methods for this use case.

Add Silent Auction

SILENT AUCTION
• SILENT AUCTION ID • SILENT AUCTION NAME • SILENT AUCTION DATE • SILENT AUCTION TIME • SILENT AUCTION VENUE • SILENT AUCTION MANAGER
SUBMIT

This class diagram is for the 'Add a Silent Auction' use case. The class this use case belongs to is, Silent Auction. The middle of the diagram contains the attributes for this use case. The bottom of the diagram contains the methods for this use case.

Edit Silent Auction

SILENT AUCTION
• SILENT AUCTION ID NUMBER • SILENT AUCTION NAME • SILENT AUCTION DATE • SILENT AUCTION TIME • SILENT AUCTION VENUE • SILENT AUCTION MANAGER
SUBMIT

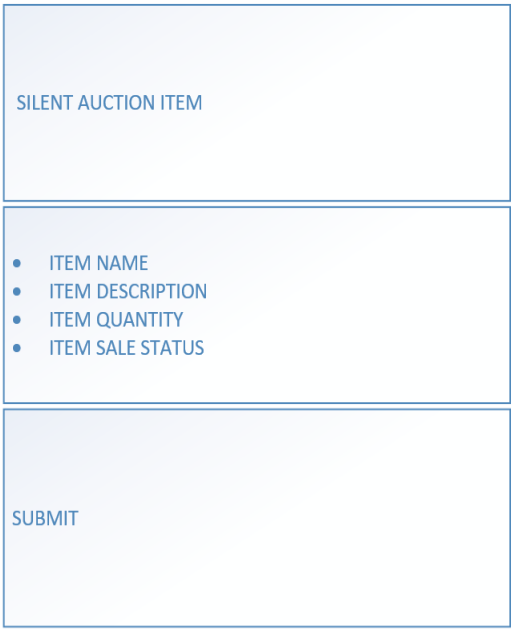
This class diagram is for the 'Edit a Silent Auction' use case. The class this use case belongs to is, Silent Auction. The middle of the diagram contains the attributes for this use case. The bottom of the diagram contains the methods for this use case.

Delete Silent Auction

SILENT AUCTION
SILENT AUCTION ROW
SELECT DELETE SUBMIT SAVE

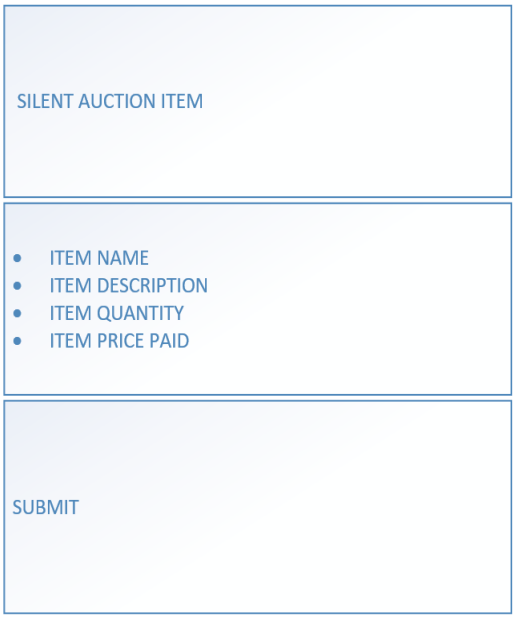
This class diagram is for the 'Delete a Silent Auction' use case. The class this use case belongs to is, Silent Auction. The middle of the diagram contains the attributes for this use case. The bottom of the diagram contains the methods for this use case.

Add Silent Auction Item



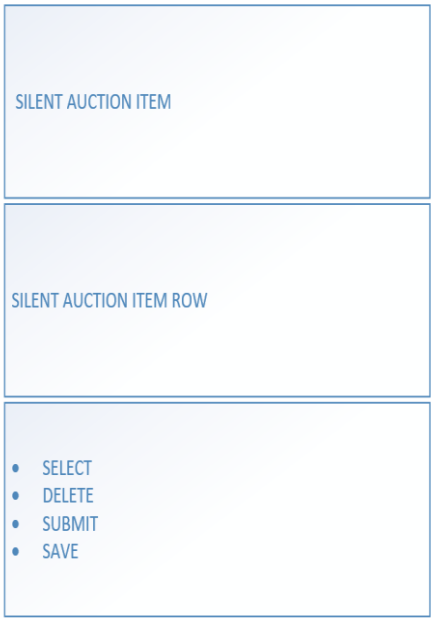
This class diagram is for the 'Add a Silent Auction Item' use case. The class this use case belongs to is, Silent Auction Item. The middle of the diagram contains the attributes for this use case. The bottom of the diagram contains the methods for this use case.

Edit Silent Auction Item



This class diagram is for the 'Edit a Silent Auction Item' use case. The class this use case belongs to is, Silent Auction Item. The middle of the diagram contains the attributes for this use case. The bottom of the diagram contains the methods for this use case.

Delete Silent Auction Item



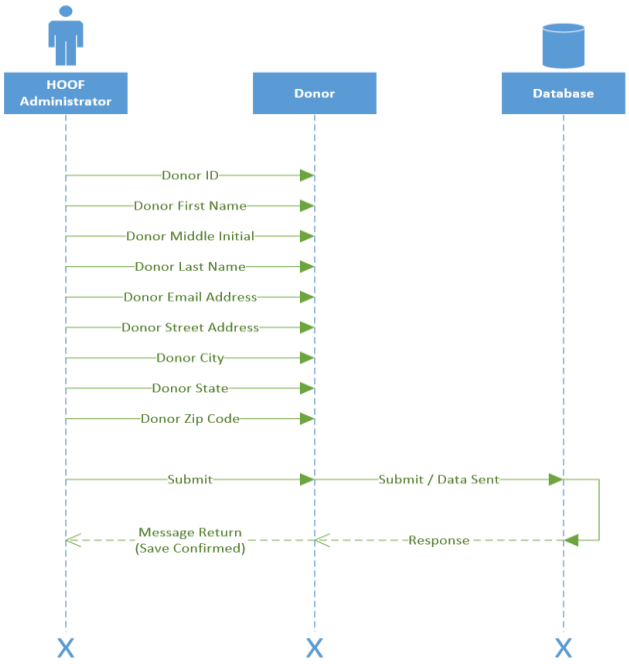
This class diagram is for the 'Delete a Silent Auction Item' use case. The class this use case belongs to is, Silent Auction Item. The middle of the diagram contains the attributes for this use case. The bottom of the diagram contains the methods for this use case.

SEQUENCE DIAGRAMS

Add a Donor

MAIN FLOW:

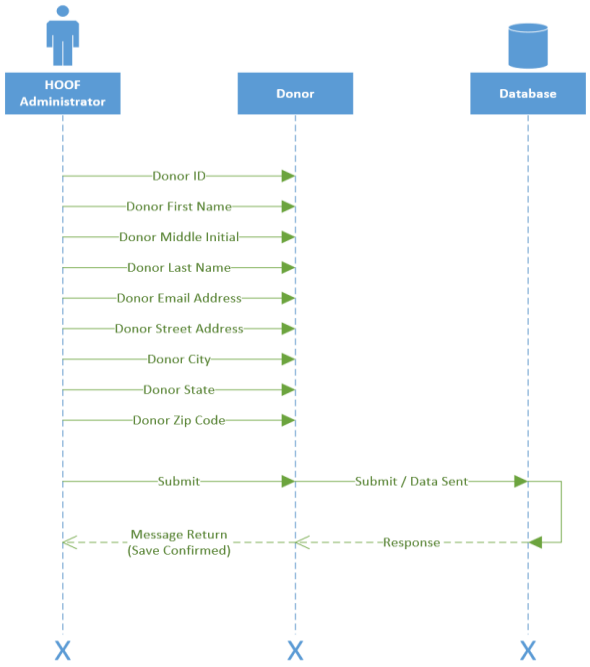
Input donor ID
Input donor first name
Input donor middle initial
Input donor last name
Input donor email
Input donor street address
Input donor city
Input donor state
Input donor zip code
Click Submit



Edit a Donor

MAIN FLOW:

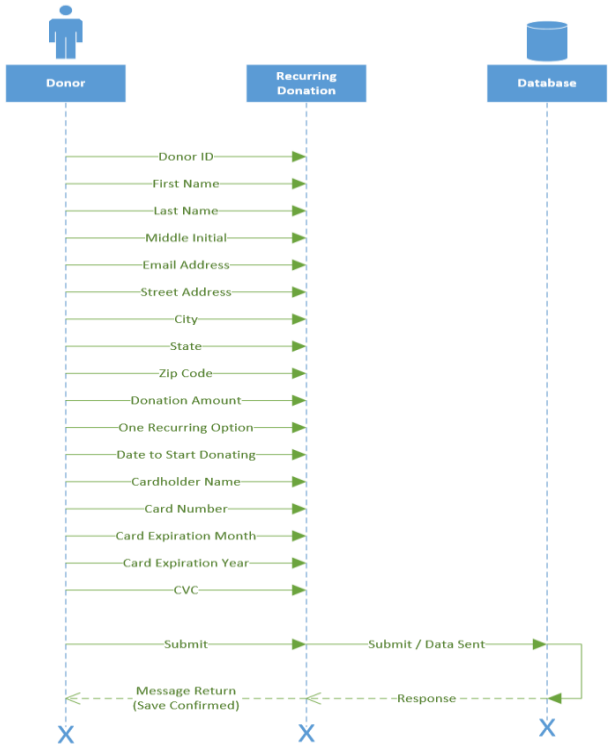
Input donor ID
Input donor first name
Input donor middle initial
Input donor last name
Input donor email
Input donor street address
Input donor city
Input donor state
Input donor zip code
Click Submit



Add Recurring Donation

MAIN FLOW:

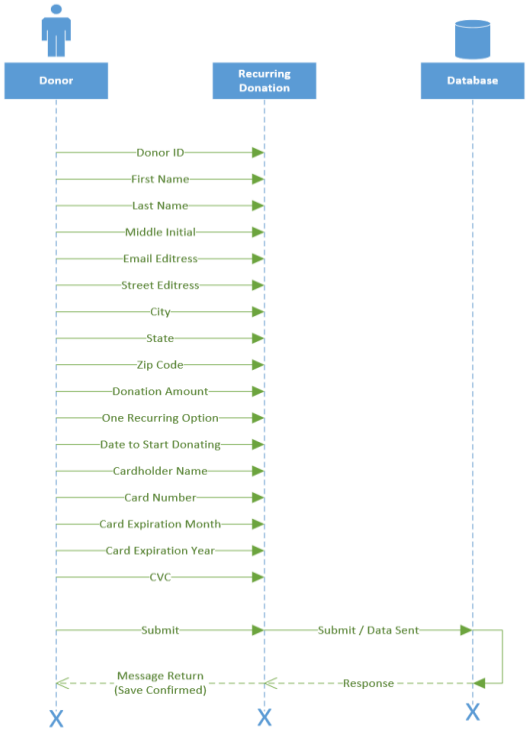
- Donor enters Donor ID
- Donor enters First Name
- Donor enters Last Name
- Donor enters Middle initial
- Donor enters email
- Donor enters street address
- Donor enters city
- Donor enters state
- Donor enters zip code
- Donor enters amount in the Donation Amount field
- Donor selects one recurring option (One-Time, Weekly, Bi-Weekly, Monthly, Quarterly, Yearly)
- Donor enters date to start donating
- Donor enters Cardholder Name
- Donor enters Card Number
- Donor enter Card Expiration Month
- Donor enters Card Expiration Year
- Donor enters CVC
- Donor clicks submit



Edit Recurring Donation

MAIN FLOW:

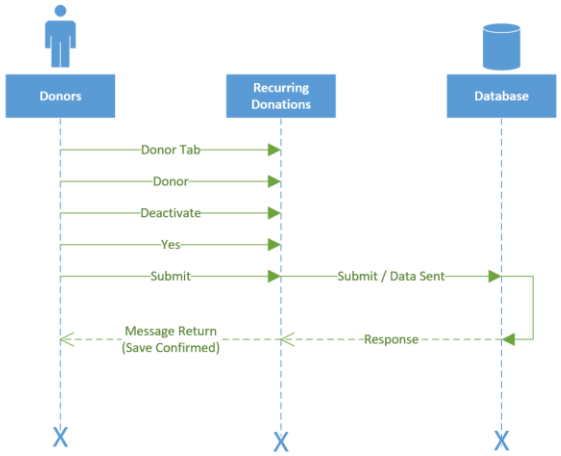
- Donor edits Donor ID
- Donor edits First Name
- Donor edits Last Name
- Donor edits Middle initial
- Donor edits email
- Donor edits street Editress
- Donor edits city
- Donor edits state
- Donor edits zip code
- Donor edits amount in the Donation Amount field
- Donor selects one recurring option (One-Time, Weekly, Bi-Weekly, Monthly, Quarterly, Yearly)
- Donor edits date to start donating
- Donor edits Cardholder Name
- Donor edits Card Number
- Donor enter Card Expiration Month
- Donor edits Card Expiration Year
- Donor edits CVC
- Donor clicks submit



Delete Recurring Donations

MAIN FLOW:

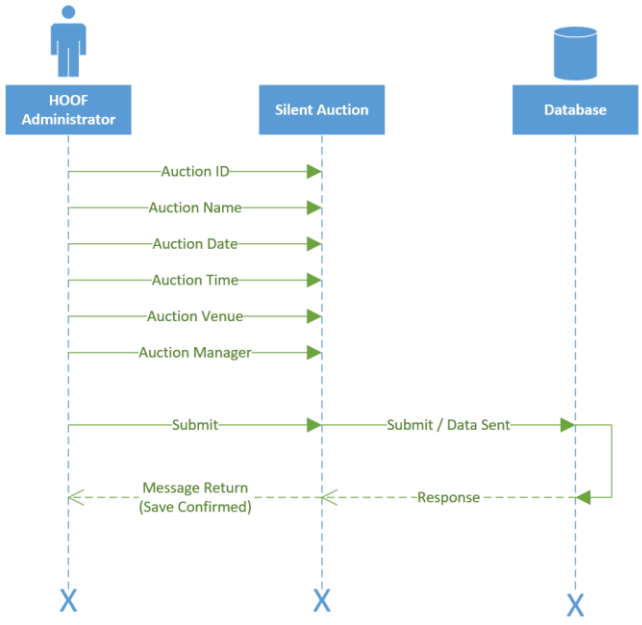
- Administrator receives request to deactivate Donor
- Administrator clicks on “Donors” tab
- Administrator finds specified Donor
- Administrator clicks “Deactivate”
- Administrator clicks yes on dialog box next to are you sure you want to deactivate donor?



Add Silent Auction

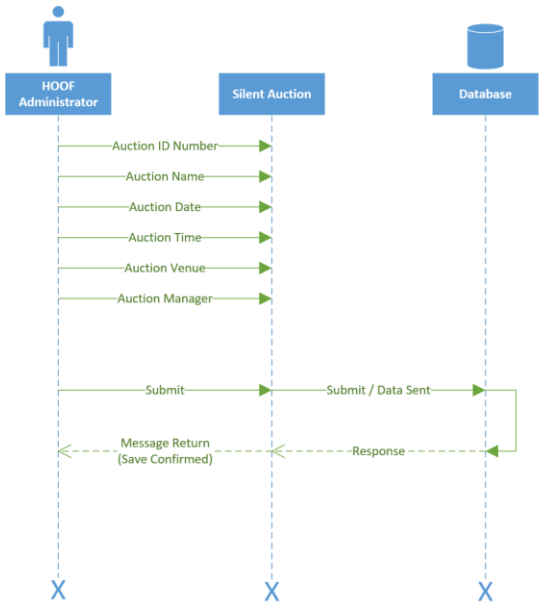
MAIN FLOW:

Input silent auction id
Input silent auction name
Input silent auction date
Input silent auction time
Input silent auction venue
Input silent auction manager
Click submit



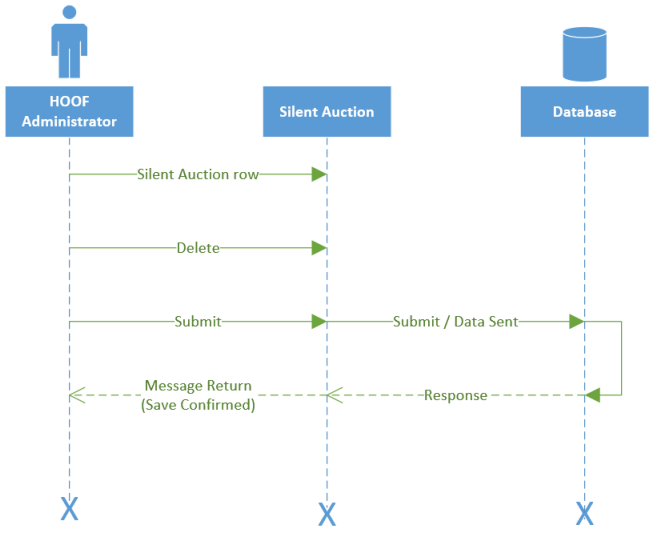
Edit Silent Auction

MAIN FLOW:
Input silent auction id number
Input silent auction name
Input silent auction date
Input silent auction time
Input silent auction venue
Input silent auction manager
Click submit



Delete Silent Auction

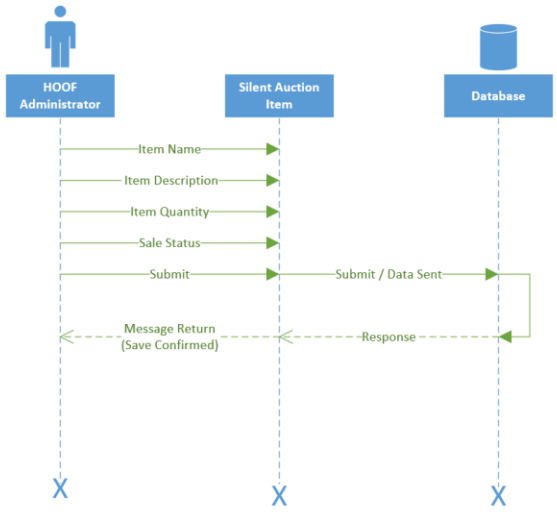
MAIN FLOW:
Select silent auction row
Right click
Click delete
Click submit



Add Silent Auction Item

MAIN FLOWS:

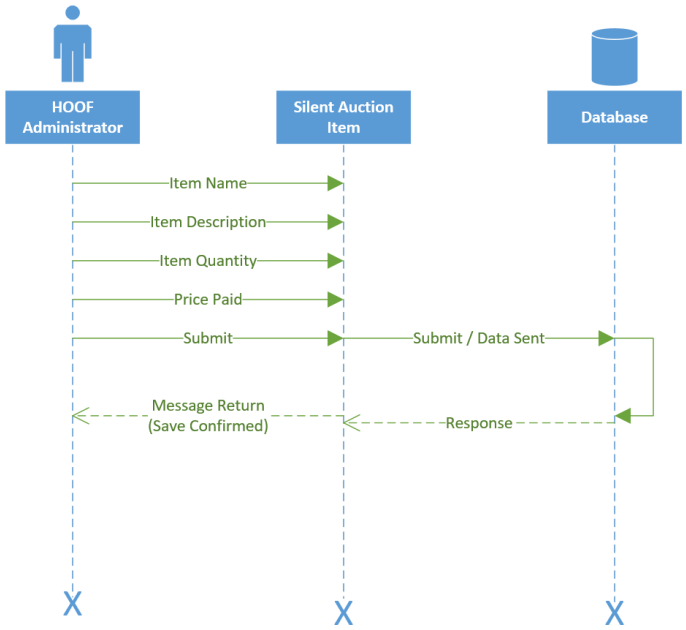
- Input inventory item name
- Input inventory item description
- Input inventory item quantity
- Input inventory sale status
- Click on Submit



Edit Silent Auction Item

MAIN FLOWS:

- Edit inventory item name
- Edit inventory item description
- Edit inventory item quantity
- Edit inventory item price paid
- Click submit



Delete Silent Auction Item

MAIN FLOWS:

- Select silent auction row
- Right click
- Click Delete
- Click Submit