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## ASSIGNMENT 3

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CIS 320-01

Dr. Robert Barker

## **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 volunteer's information.
  - b. The system will store volunteer's 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 volunteer's 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.
  - c. The system should be able to track user's activities on the website

### Trace Matrix:

Trace Matrix															
Use Cases	Store Participant Information	Store Donations	Store Donor Information	Excel for Financials	Add Applications	Update Applications	Grant Permissions	Manage Website Content	Store Volunteer Information	Manage Events	Support Social Media	Manage Public Relations	Manage Marketing	Use of Cloud Database	Securely Share Data
Add Volunteer					x			x	x					x	x
Edit Volunteer						x		x	x					x	x
Delete Volunteer						x		x	x					x	x
Add Volunteer hours					x			x	x					x	x
Edit Volunteer hours						x		x	x					x	x
Delete Volunteer hours						x		x	x					x	x
Add Event					x			x						x	x
Edit Event						x		x						x	x
Delete Event						x		x							x

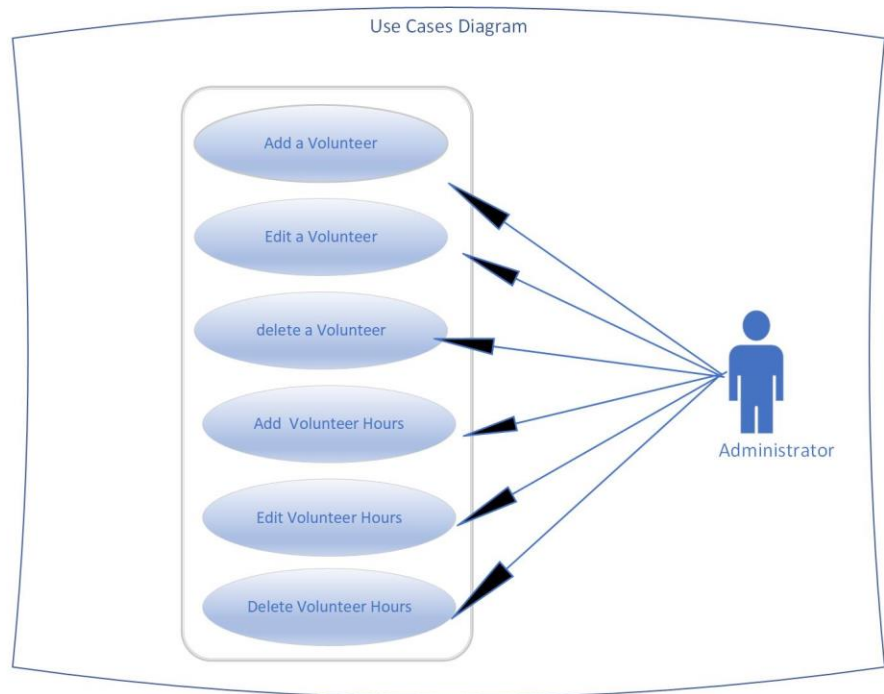
This trace matrix represents the use cases and their associated system requirement for the envisioned HOOF system. An 'X' is placed where a use case intersects with the associated system requirement.

## Use Cases Diagrams:

### Use Case Diagram:

This system model will conclude which functions will be used by the administrators at Hoof and which will be used by everyone else (users).

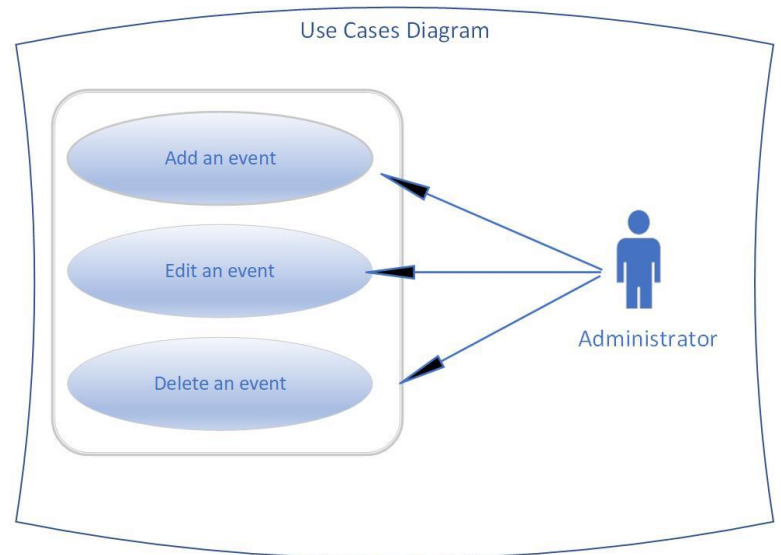
HOOF Administrator will be able to add, edit or delete a volunteer from the volunteer table in the Azure database. Also HOOF Administrator will be able to add, edit or delete a volunteer hours from the volunteer hours table in the Azure database




### Use Case Diagram:

This system model will conclude which functions will be used by the administrators at Hoof and which will be used by everyone else (users).

HOOF Administrator will be able to add, edit or delete a events from the event table in the Azure database.



## Use case Prototypes:




# HORSES OFFERING OPPORTUNITIES FOR FAMILIES, INC.

### Add an Event

Confirm Adding?

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



# HORSES OFFERING OPPORTUNITIES FOR FAMILIES, INC.

### Add a Volunteer

Confirm Adding?

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



## HORSES OFFERING OPPORTUNITIES FOR FAMILIES, INC.

### Add Volunteer hours

Confirm Adding?

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



## HORSES OFFERING OPPORTUNITIES FOR FAMILIES, INC.

### Delete an Event

Confirm Deletion !!

Data will be permanently lost.  
Are you sure you want to delete this record?

[Delete this Event](#)

This use case prototype depicts the final confirmation step of the deletion of Events in the HOOF, Inc. system. After the user will click on the 'delete this Event' option which will then prompt the user to confirm the deletion. Once the deletion have been confirmed by the user, the record will be deleted in the HOOF, Inc. Azure database.



## HORSES OFFERING OPPORTUNITIES FOR FAMILIES, INC.

### Delete Volunteer hours

#### Confirm Deletion !!

Data will be permanently lost.  
Are you sure you want to delete this record?

[Delete this Instance](#)

This use case prototype depicts the final confirmation step of the deletion of volunteer hours in the HOOF, Inc. system. After the user will click on the 'delete this Instance' option which will then prompt the user to confirm the deletion. Once the deletion have been confirmed by the user, the record will be deleted in the HOOF, Inc. Azure database.



## HORSES OFFERING OPPORTUNITIES FOR FAMILIES, INC.

### Delete a Volunteer

#### Confirm Deletion !!

Data will be permanently lost.  
Are you sure you want to delete this record?

[Delete this contact](#)

This use case prototype depicts the final confirmation step of the deletion of volunteers in the HOOF, Inc. system. After the user will click on the 'delete this contract' option which will then prompt the user to confirm the deletion. Once the deletion have been confirmed by the user, the record will be deleted in the HOOF, Inc. Azure database.



## HORSES OFFERING OPPORTUNITIES FOR FAMILIES, INC.

### Edit an Event

21

Meet the horses

03/29/2018

10:00 AM

3:00 PM

HOOF Campus

Kids will meet with the horses at the first time

Confirm Changes?

Confirm

Cancel

Apply

Cancel

This use case prototype depicts the final confirmation step of the Editing of Events in the HOOF, Inc. system. After making changes to any of the event's data fields, the user will click on the 'Apply' button which will then prompt the user to confirm the changes. Once the changes have been confirmed by the user, the record will be updated in the HOOF, Inc. Azure database.



## HORSES OFFERING OPPORTUNITIES FOR FAMILIES, INC.

### Edit Volunteer

75

John A Smith

01/21/1996

123 Cardinal RD

Louisville KY 40123

University Of Louisville

502-123-4567

John.smith@gmail.com

Linda

Smith

502-765-4321

Confirm Changes?

Confirm

Cancel

Apply

Cancel

[Delete this contact](#)

This use case prototype depicts the final confirmation step of the Editing of volunteers in the HOOF, Inc. system. After making changes to any of the volunteer's data fields, the user will click on the 'Apply' button which will then prompt the user to confirm the changes. Once the changes have been confirmed by the user, the record will be updated in the HOOF, Inc. Azure database.





## HORSES OFFERING OPPORTUNITIES FOR FAMILIES, INC.

### Edit Volunteer Hours

Confirm Changes?

[Delete this Instance](#)

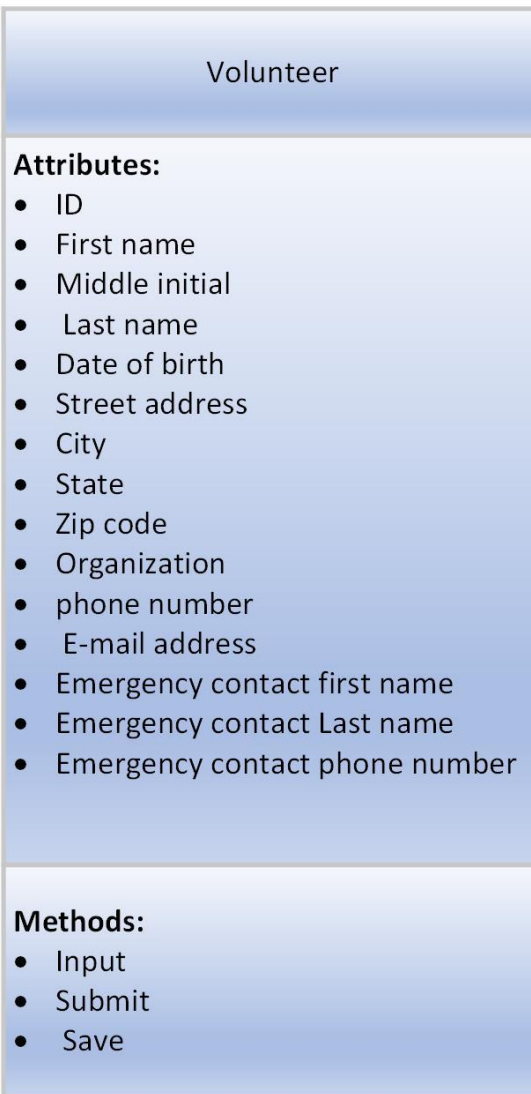
This use case prototype depicts the final confirmation step of the Editing of volunteers hours in the HOOF, Inc. system. After making changes to any of the volunteer hour's data fields, the user will click on the 'Apply' button which will then prompt the user to confirm the changes. Once the changes have been confirmed by the user, the record will be updated in the HOOF, Inc. Azure database.

## Class Diagrams:

Add a Volunteer

### **Class diagram Add a Volunteer:**

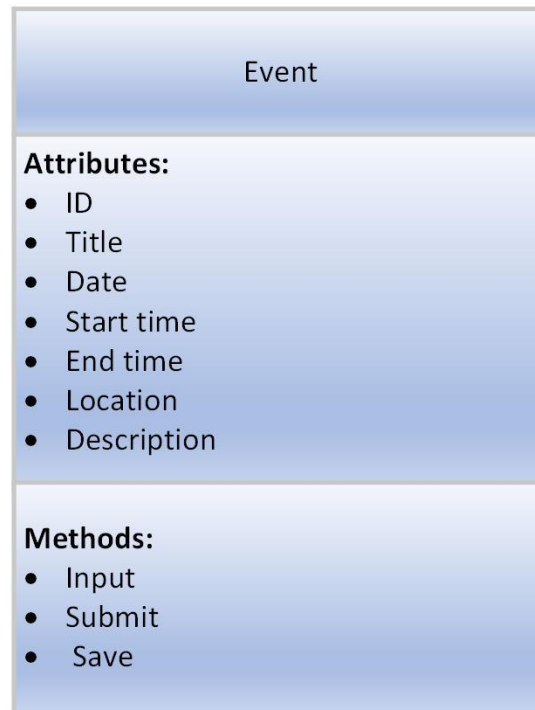
The following class diagram depicts the class, Add a volunteer and the attributes associated with it and the operations that the class is capable of performing.



## Add an Event

### Class diagram Add an event :

The following class diagram depicts the class, Add an event and the attributes associated with it and the operations that the class is capable of performing.



## Add volunteer hours

### Class diagram Add an event :

The following class diagram depicts the class, Add volunteer hours and the attributes associated with it and the operations that the class is capable of performing.



## Delete a Volunteer

### Class diagram Add an event :

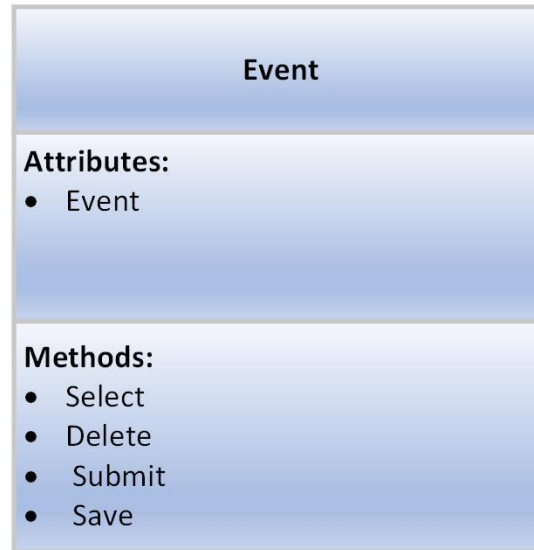
The following class diagram depicts the class, Delete a volunteer and the attributes associated with it and the operations that the class is capable of performing.



## Delete an Event

### Class diagram Add an event :

The following class diagram depicts the class, Delete an event and the attributes associated with it and the operations that the class is capable of performing.



## Delete Volunteer hours

### Class diagram Add an event :

The following class diagram depicts the class, Delete volunteer hours and the attributes associated with it and the operations that the class is capable of performing.



**Class diagram Add an event :**

The following class diagram depicts the class, Edit a volunteer and the attributes associated with it and the operations that the class is capable of performing.

**Volunteer**

**Attributes:**

- ID
- First name
- Middle initial
- Last name
- Date of birth
- Street address
- City
- State
- Zip code
- Organization
- Phone number
- E-mail address
- Emergency Contact first name
- Emergency Contact last name
- Emergency Contact phone number

**Methods:**

- Edit
- Submit
- Save



**Class diagram Add an event :**

The following class diagram depicts the class, Edit an event and the attributes associated with it and the operations that the class is capable of performing.



**Class diagram Add an event :**

The following class diagram depicts the class, Edit volunteer hours and the attributes associated with it and the operations that the class is capable of performing.



## Sequence Diagrams:

### Sequence Diagram:

This is how the user will interact with logging into the Database.

#### Main Flow:

- Input an event's ID
- Input an event's title
- Input an event's date
- Input an event's start time
- Input an event's end time
- Input an event's location
- Input an event's description
- Click Submit

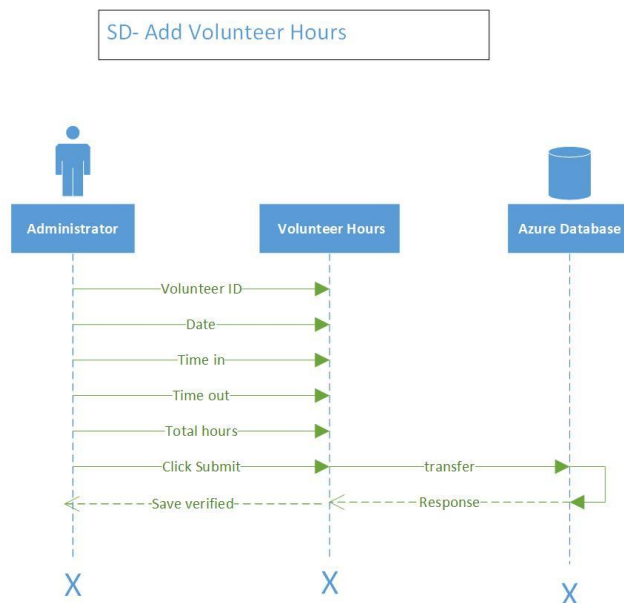


### Sequence Diagram:

This is how the user will interact with logging into the Database.

#### Main flow:

- input Volunteer ID
- Input date
- input time in
- input time out
- input total hours
- Click Submit



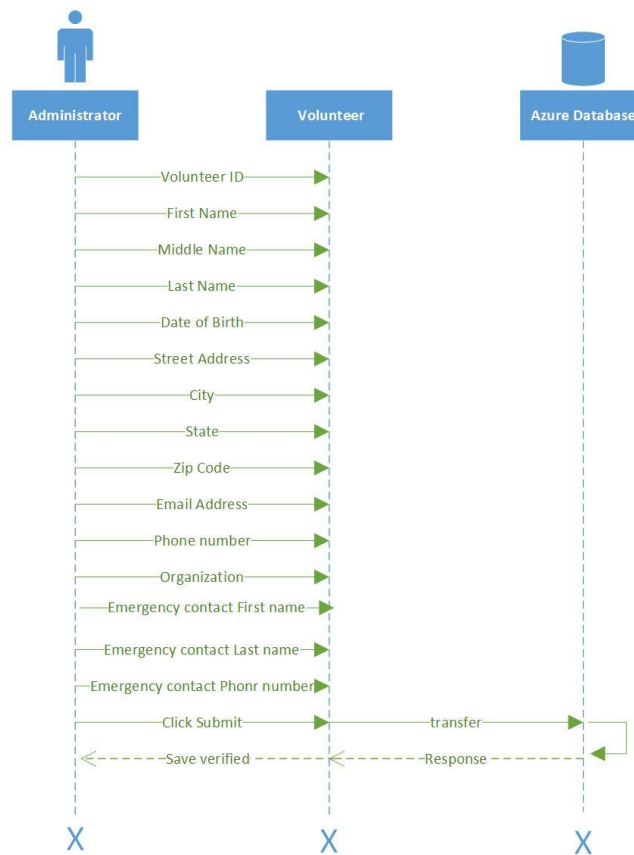
### Sequence Diagram:

This is how the user will interact with logging into the Database.

Main flow:

- Input Volunteer's first name
- input Volunteer's middle initial.
- input Volunteer's last name.
- input Volunteer's date of birth.
- Input Volunteer's street address.
- Input Volunteer's city.
- Input Volunteer's state.
- Input Volunteer's zip code.
- Input Volunteer's organization (optional).
- Input volunteer's phone number.
- input volunteer's e-mail address.
- Input emergency contact first name.
- Input emergency contact last name.
- Input emergency contact phone number.
- Click Submit

### SD- Add Volunteer



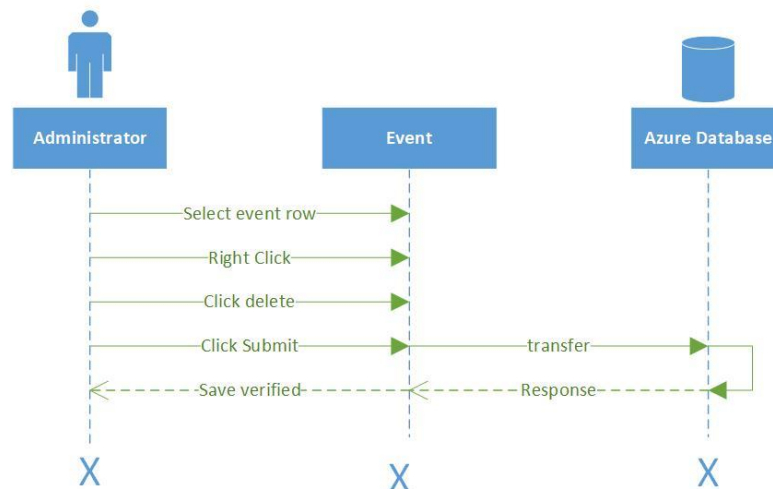
### Sequence Diagram:

This is how the user will interact with logging into the Database.

Main flow:

- select an event row to be deleted
- right click
- click delete
- Click Submit

### SD-delete event



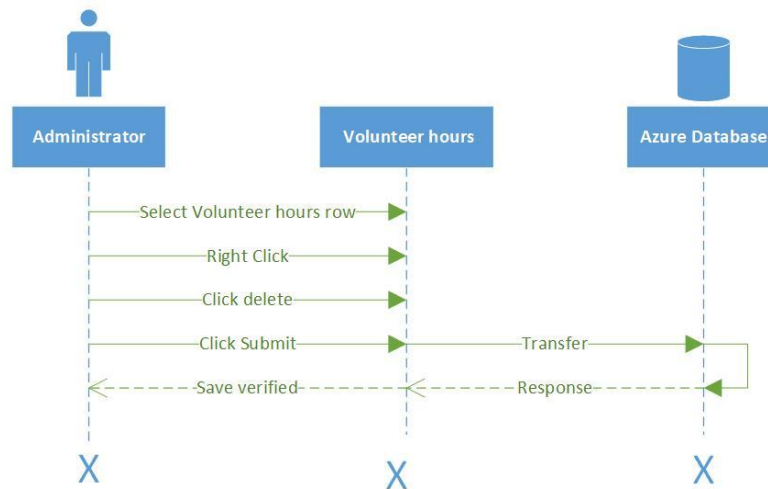
### SD-delete Volunteer hours

#### Sequence Diagram:

This is how the user will interact with logging into the Database.

Main flow:

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- Click Submit



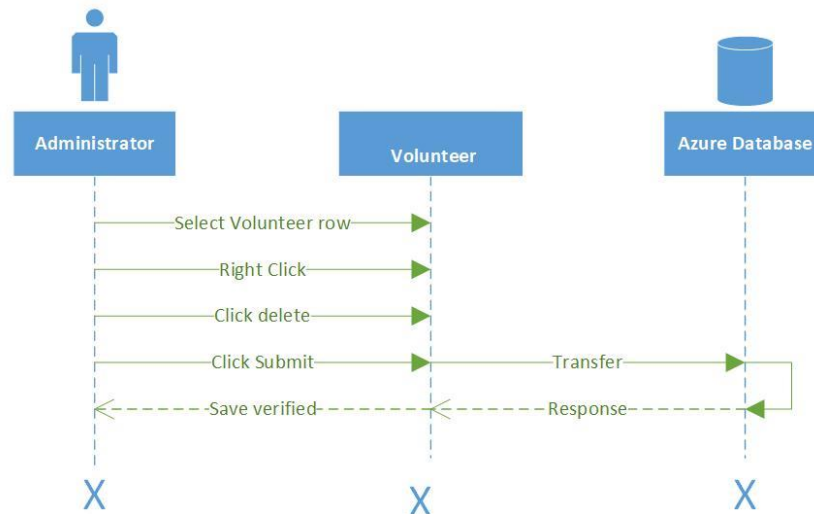
### SD-delete Volunteer

#### Sequence Diagram:

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Main flow:

- select an event row to be deleted
- right click
- click delete
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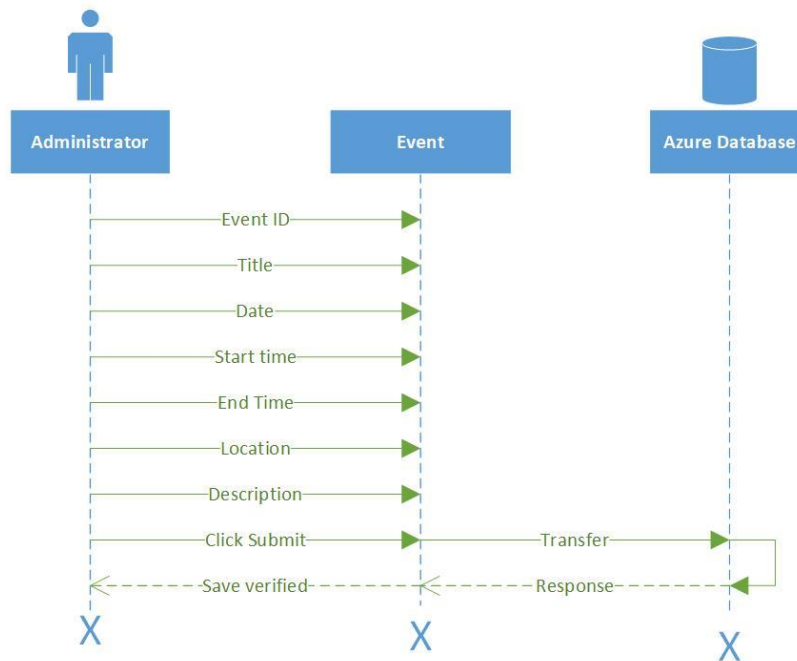
### SD- Edit Event

#### Sequence Diagram:

This is how the user will interact with logging into the Database.

#### Main flow:

- edit an event's ID
- edit an event's title
- edit an event's date
- edit an event's start time
- edit an event end time
- edit an event's location
- edit an event's description
- Click Submit



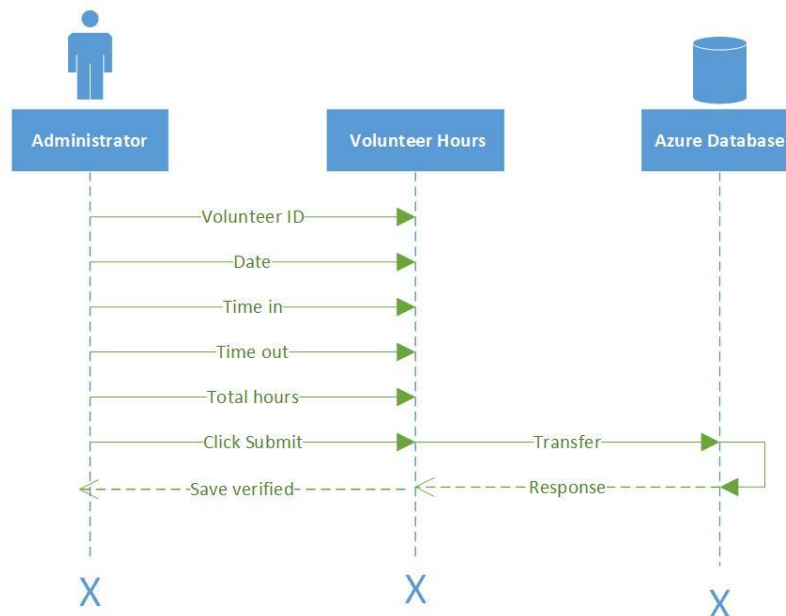
### SD- Edit Volunteer Hours

#### Sequence Diagram:

This is how the user will interact with logging into the Database.

#### Main flow:

- Edit Volunteer ID
- Edit date
- Edit time in
- Edit time out
- Edit total hours
- Click Submit



## SD-Edit Volunteer

### Sequence Diagram:

This is how the user will  
Interact with logging into the  
Database.

#### Maim flow:

- edit Volunteer's ID
- edit Volunteer's first name
- edit Volunteer's middle initial.
- edit Volunteer's last name.
- edit Volunteer's date of birth.
- edit Volunteer's street address.
- edit Volunteer's city.
- edit Volunteer's state.
- edit Volunteer's zip code.
- edit Volunteer's organization (optional).
- edit volunteer's phone number.
- edit volunteer's e-mail address.
- edit emergency contact first name.
- edit emergency contact last name.
- edit emergency contact phone number.
- Click Submit
- 

