Community Betterment App

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Community Betterment App Overview

Purpose

- Web-based system that streamlines processes for managers of HOA communities, maintenance team, and homeowners
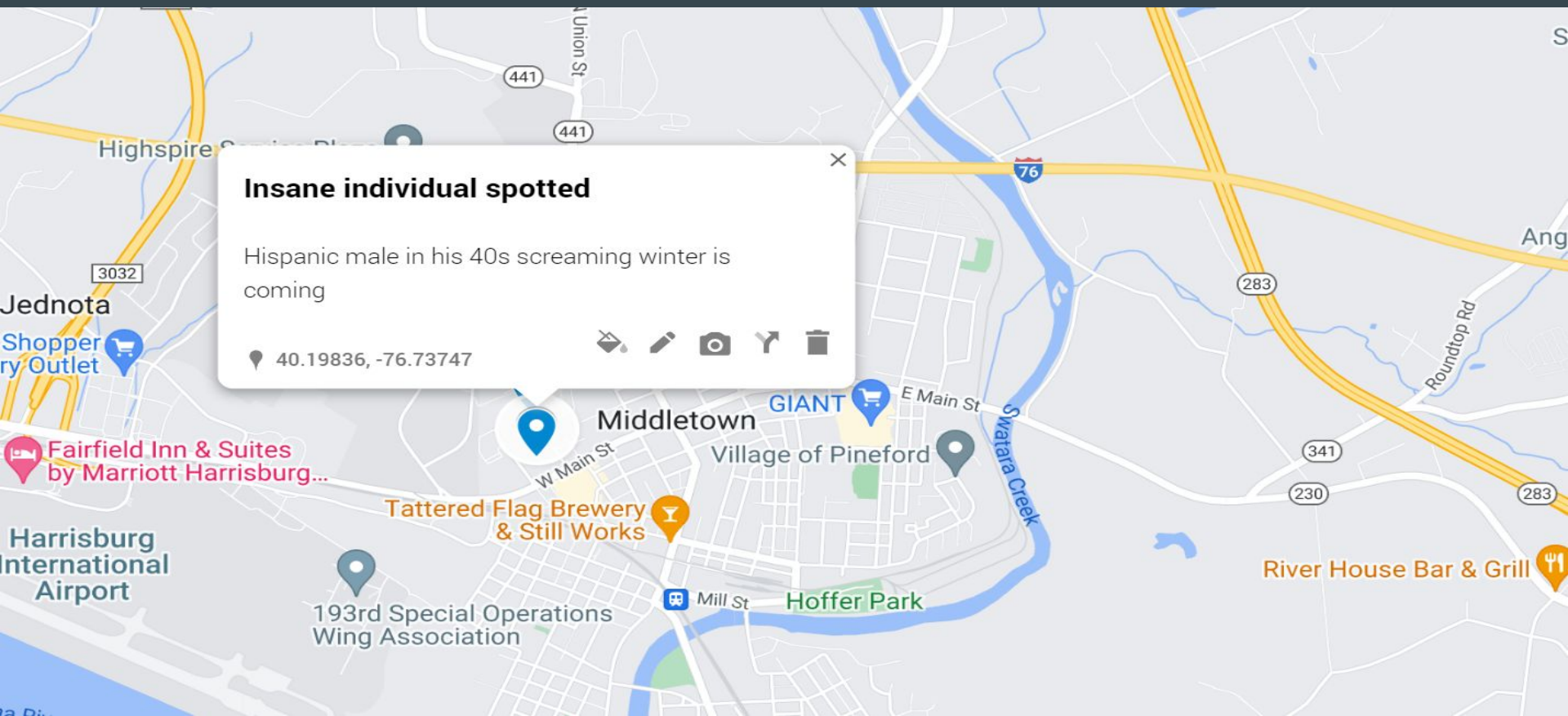- Keep stakeholders informed about their community

Technologies Used
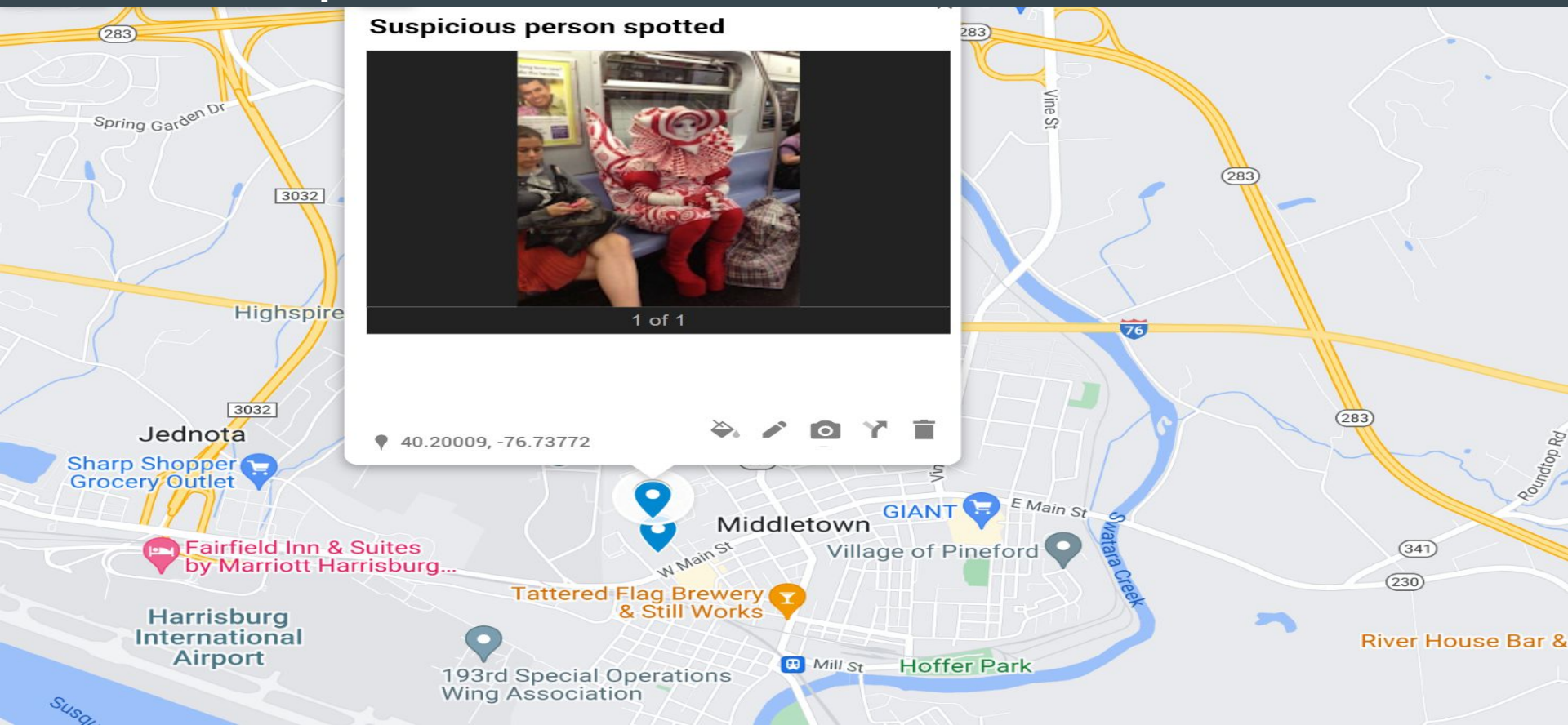
Framework: ASP.NET Application

MVC App

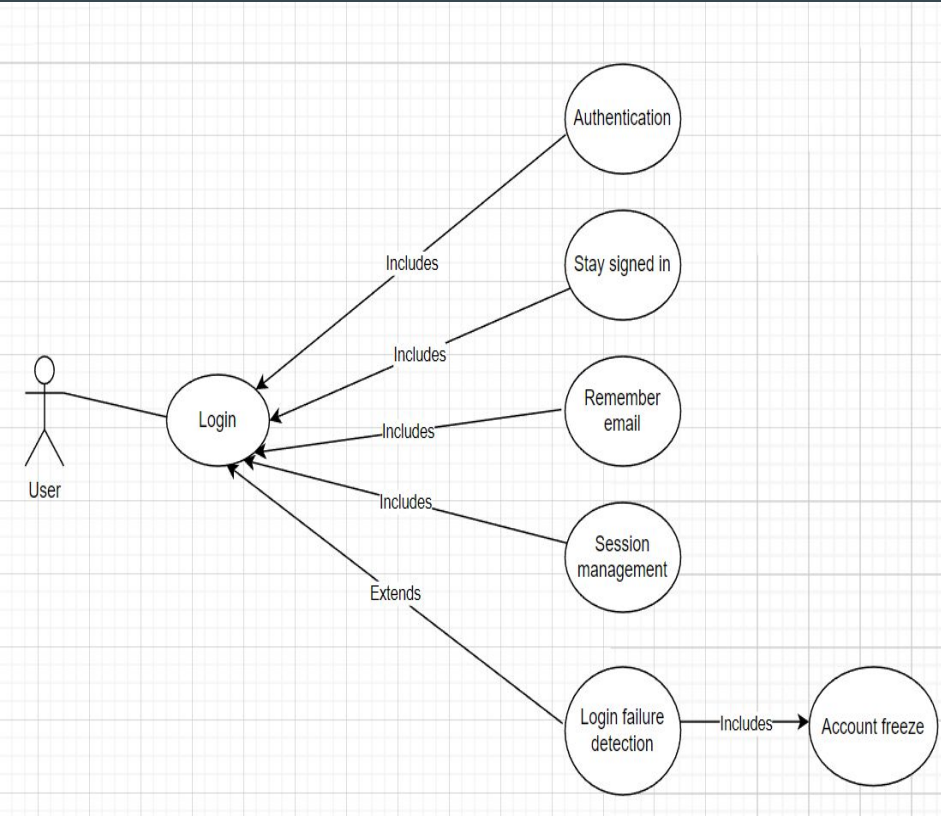Language: C#

Database: SQL Server Management

Incident Map

Insane individual spotted

Hispanic male in his 40s screaming winter is coming

📍 40.19836, -76.73747

Incident Map

Suspicious person spotted

1 of 1

40.20009, -76.73772
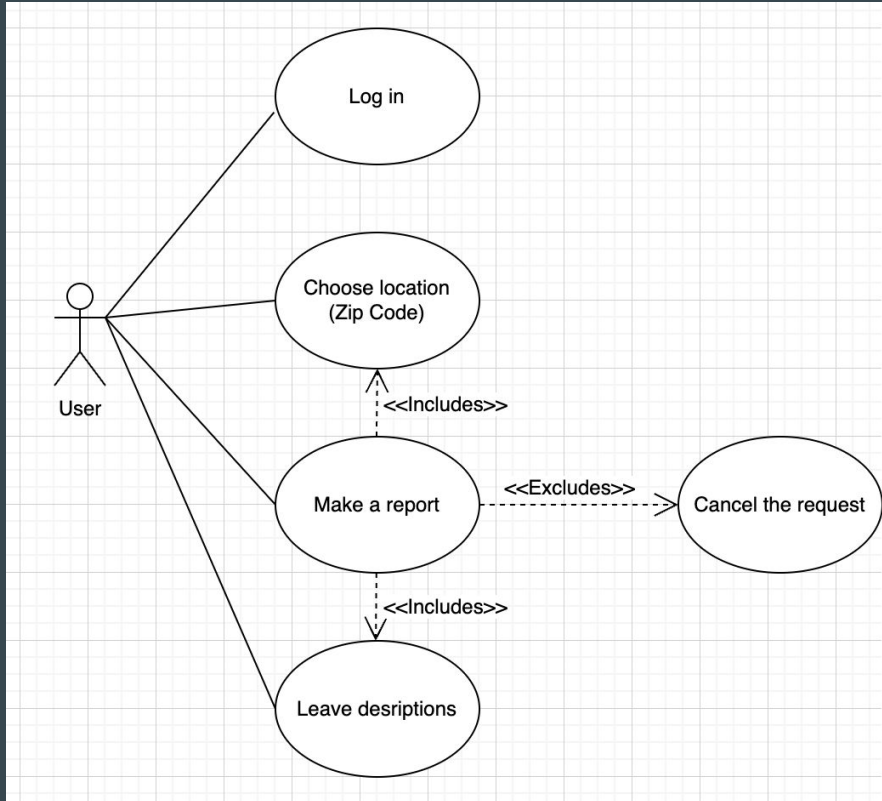
Use case : User attempts to login

Basic flow:

1.   The system requests that the user enter his/her email and password.
2.   The user enters his/her name and password.
3.   The system validates the entered name and password and logs the actor into the system

Alternate flow:
1.   The system was unable to validate the entered email and password
2.   The system checks if this was the 3rd login failure
       a.   If true, freeze the account for 15 minutes

Use case: User reports an incident

- Basic course

   A user logs in and navigates to the system and clicks on the report button. The system displays the Report message page. The user chooses the specific location (zip code) of the incident and leaves a description of the incident. Upon pressing the sending button, the system adds the report to the list of pending reports in the database. The system also adds the name of the sender automatically.

- Alternate course

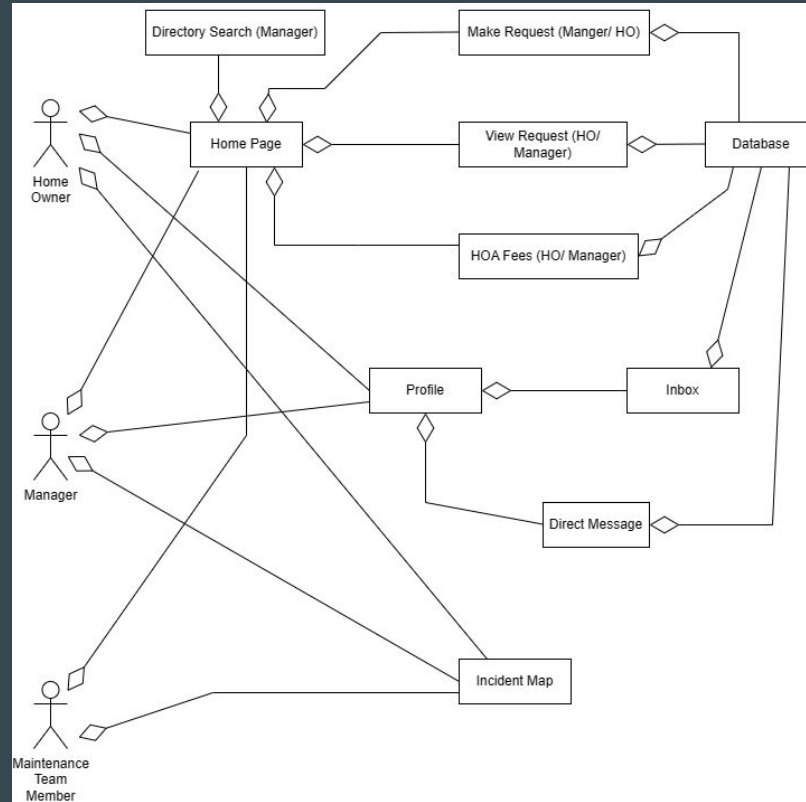   **The user may have more than one incident in one report**

   After choosing the specific location and leaving a description of the first incident, the user can click 'another incident' button rather than 'submit' button. Then the user is shown the Report page again.
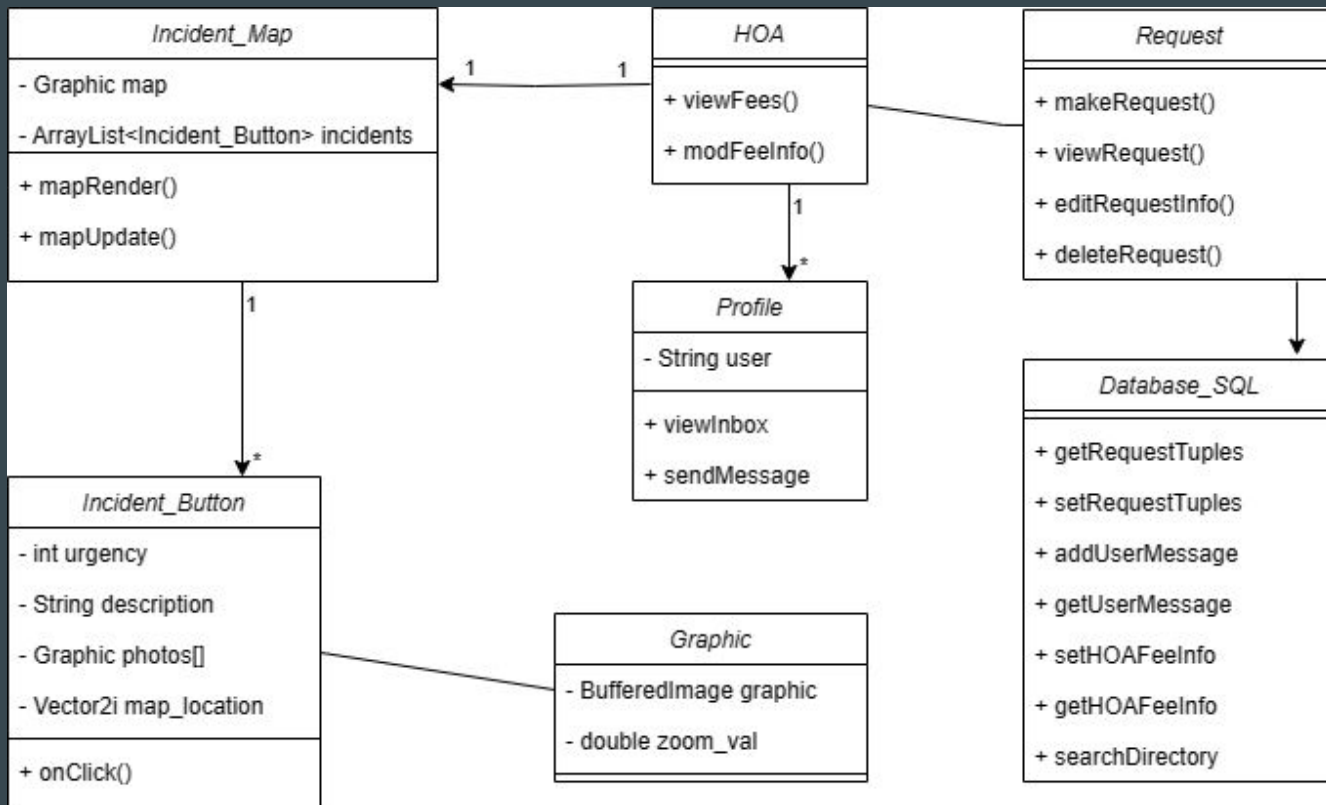
   The user decides to cancel the request

   A user is able to click the cancel button at any step during the process.

HOA Domain Model

HOA Class Diagram

Community Betterment Project

This is a webapp that helps the community stay connected with reporting incidents and streamlining the communication process

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Users Directory

Create New

EmailAddress	FirstName	LastName	Password	SubscriptionStatusDesc	UserRoleDesc			
abc1@email.com	John1	Smith	abc1	Active	Administrator	Edit	Details	Delete
abc2@email.com	John2	Smith	abc2	Active	Manager	Edit	Details	Delete
abc3@email.com	John3	Smith	abc3	Active	Homeowner	Edit	Details	Delete
abc4@email.com	John4	Smith	abc4	Active	Vendor	Edit	Details	Delete
abc5@email.com	John5	Smith	abc5	Active	Homeowner	Edit	Details	Delete
pmann@gmail.com	Pranjal	Mann	123r43	Active	Homeowner	Edit	Details	Delete

Create

User

EmailAddress	
FirstName	
LastName	
Password	
UserRoleIdFK	Administrator
SubscriptionStatusIdFK	Active

Create

Back to List

Edit

User

EmailAddress	abc1@email.com
FirstName	John1
LastName	Smith
Password	abc1
UserRoleIdFK	Administrator
SubscriptionStatusIdFK	Active

Save

Back to List

Details

User

EmailAddress	abc1@email.com
FirstName	John1
LastName	Smith
Password	abc1
SubscriptionStatusD...	Active
UserRoleDesc	Administrator

Edit | Back to List

Delete

Are you sure you want to delete this?

User

EmailAddress	abc1@email.com
FirstName	John1
LastName	Smith
Password	abc1
SubscriptionStatusD...	Active
UserRoleDesc	Administrator

Delete | Back to List

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Index

Create New

IncidentDesc	ReportedByName	ReportedByPhoneNumber	ReportedByEmail	ReportedDate	IncidentLocationAddress	IncidentStatusDesc	IncidentTypeDesc	
There is an intruder at my house	Shreya	7174701456	shreyachandanshive@gmail.com	12/10/2022 12:00:00 AM	61 Edris Ln	Open	Intruder	Edit | Details | Delete
my house is on fire	sanket	2342453	sanketchadanshive1@gmail.com	12/10/2022 12:00:00 AM	61 Edris Ln	Open	Fire	Edit | Details | Delete
mt house is on fire	Claire	7173701734	email@email.com	12/10/2022 12:00:00 AM	61 Edris Ln	Open	Fire	Edit | Details | Delete

Create

Incident

IncidentTypeIdFK	Missing Pet ▼
IncidentDesc	
ReportedByName	
ReportedByPhoneNumber	
ReportedByEmail	
ReportedDate	
IncidentLocationAddress	
IncidentStatusIdFK	Open ▼

Create

Back to List

Edit

Incident

IncidentTypeIdFK	Intruder ⌄
IncidentDesc	There is an intruder at my house
ReportedByName	Shreya
ReportedByPhoneNumber	7174701456
ReportedByEmail	shreyachandanshive@gmail.com
ReportedDate	12/10/2022 12:00:00 AM
IncidentLocationAddress	61 Edris Ln
IncidentStatusIdFK	Open ⌄

Save

Back to List

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Details

Incident

IncidentDesc	There is an intruder at my house
ReportedByName	Shreya
ReportedByPhoneNu...	7174701456
ReportedByEmail	shreyachandanshive@gmail.com
ReportedDate	12/10/2022 12:00:00 AM
IncidentLocationAddr...	61 Edris Ln
IncidentStatusDesc	Open
IncidentTypeDesc	Intruder

Edit | Back to List

Delete

Are you sure you want to delete this?

Incident

IncidentDesc	There is an intruder at my house
ReportedByName	Shreya
ReportedByPhoneNu...	7174701456
ReportedByEmail	shreyachandanshive@gmail.com
ReportedDate	12/10/2022 12:00:00 AM
IncidentLocationAddr...	61 Edris Ln
IncidentStatusDesc	Open
IncidentTypeDesc	Intruder

Delete | Back to List