

CSE 111 - Database Systems

Harassment Incident Tree

Jacob Frederick, Xavier Villa

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Description

This document outlines vital information for the Fall 2019 Database Systems group project.

Contents

1	Phase 1	3
1.1	Synopsis of project	3
1.2	Specification of Project Requirements	3
1.3	Database Design Documentation and ER Diagrams	7
1.4	Relation Specification	8

1 Phase 1

1.1 Synopsis of project

Develop a web app to track reported harassment messages throughout social media and mobile networks while collecting data on who receives these types of messages to formulate possible relations between the victims. This database could be used as a reference for law enforcement to possibly identify anonymous offenders through victim connections.

1.2 Specification of Project Requirements

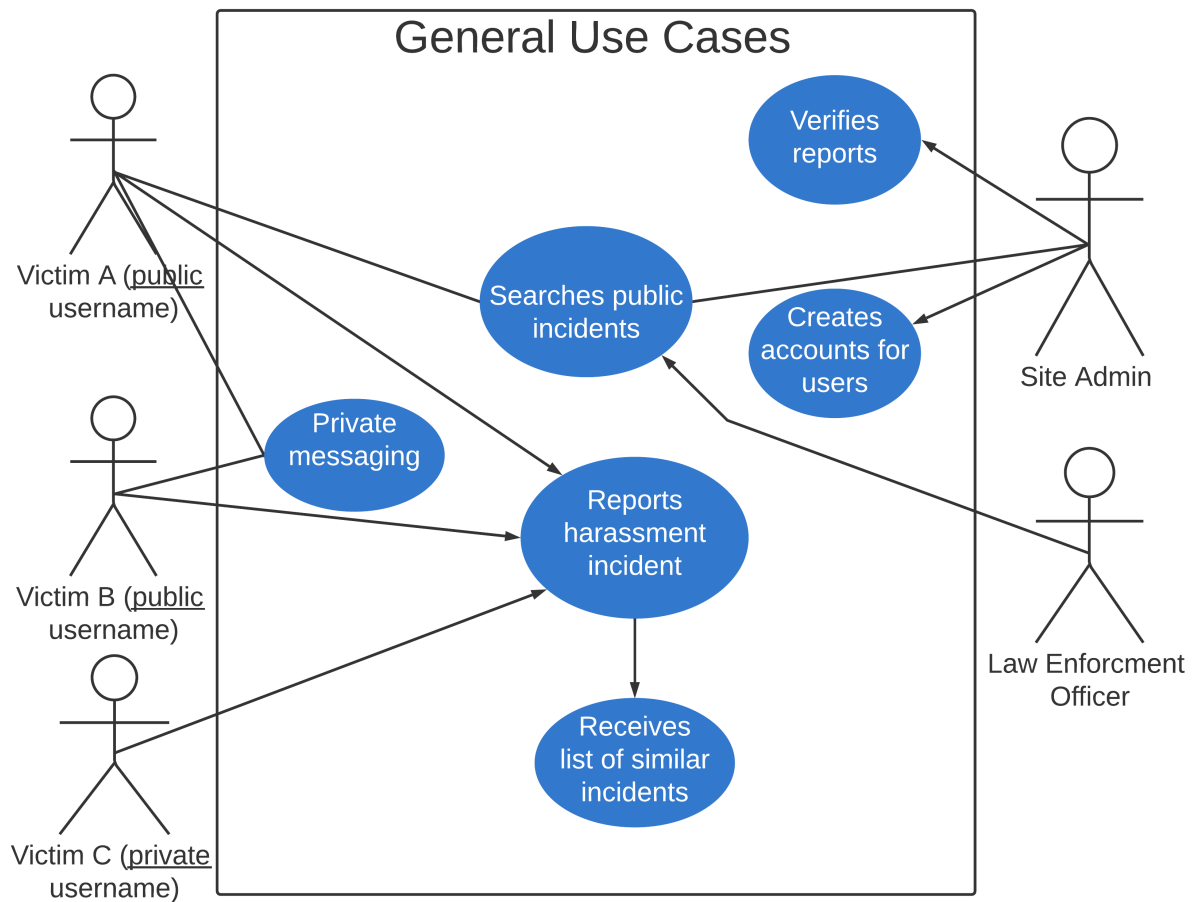


Figure 1: The general use cases of the site and all actors are shown.

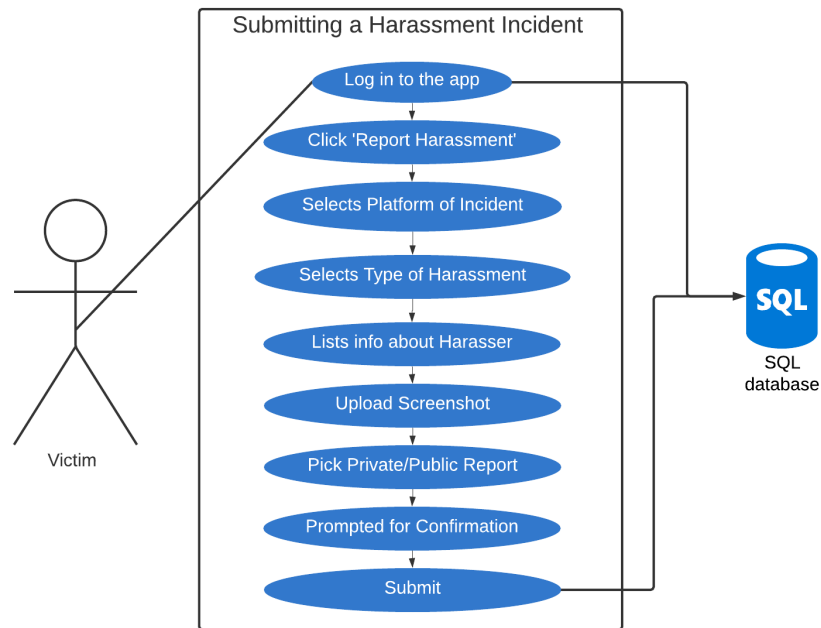


Figure 2: A victim creates a new report and fills in as much information as possible about the platform and harasser.

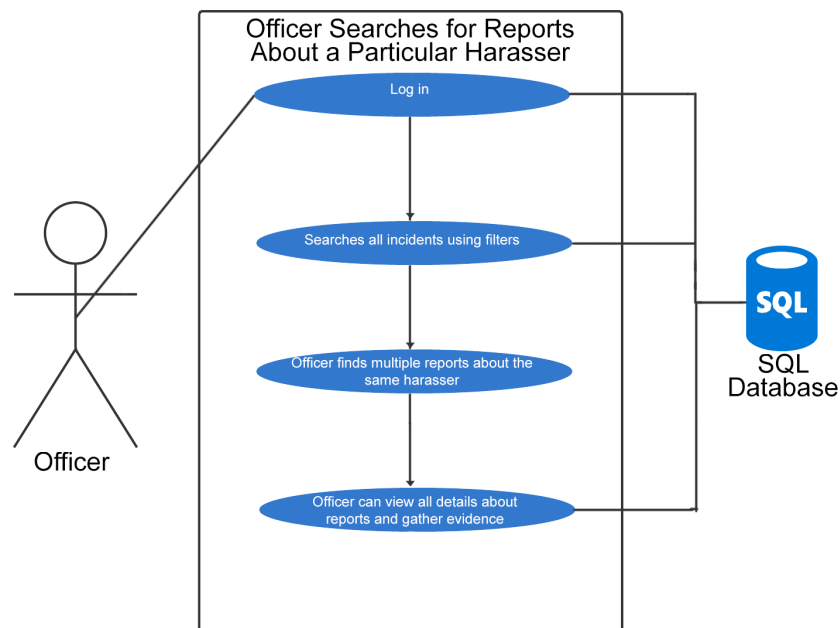


Figure 3: A police officer searches the database for a particular harasser with easily identifiable information like a username or phone number.

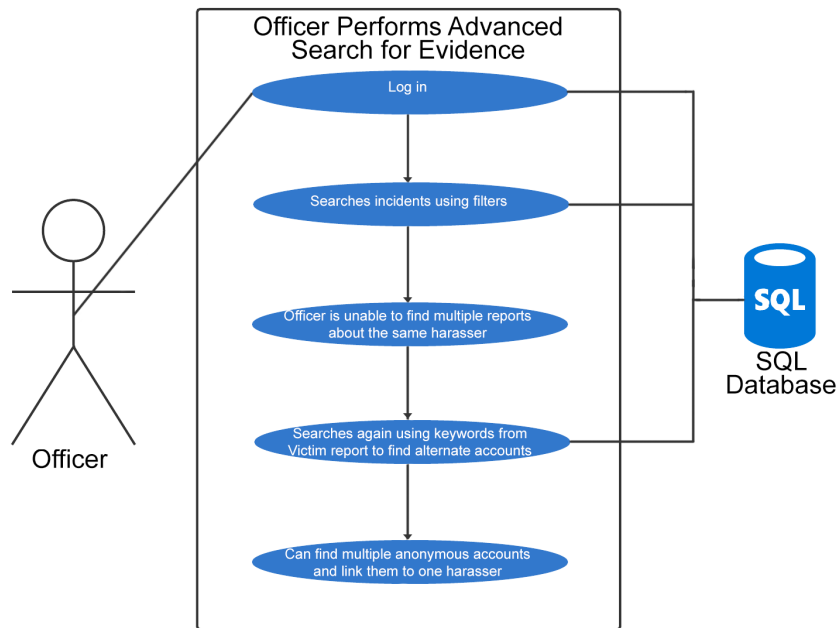


Figure 4: A police officer performs more advanced search of an anonymous harasser by utilizing keywords from reports, photographs or other possible identifiers.

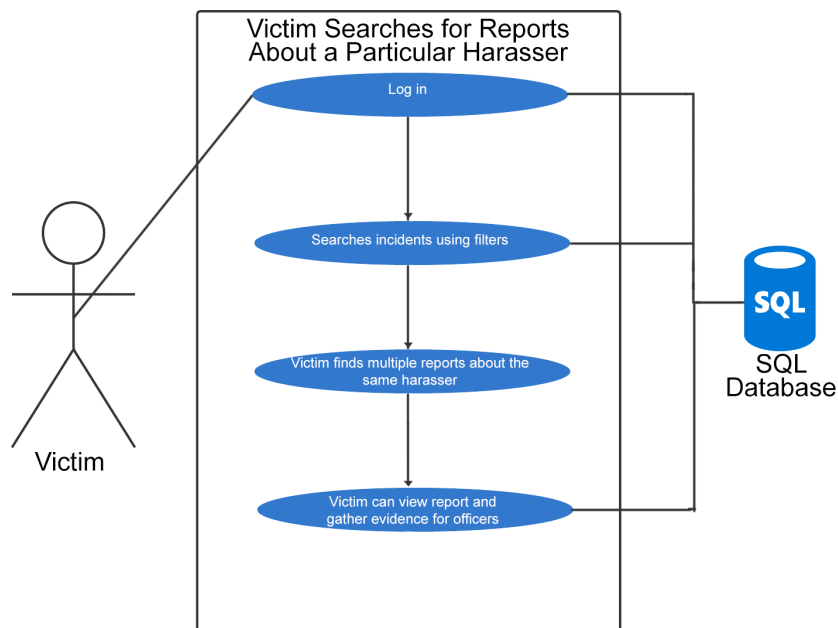


Figure 5: A victim searches the database for a particular harasser with easily identifiable information like a username or phone number.

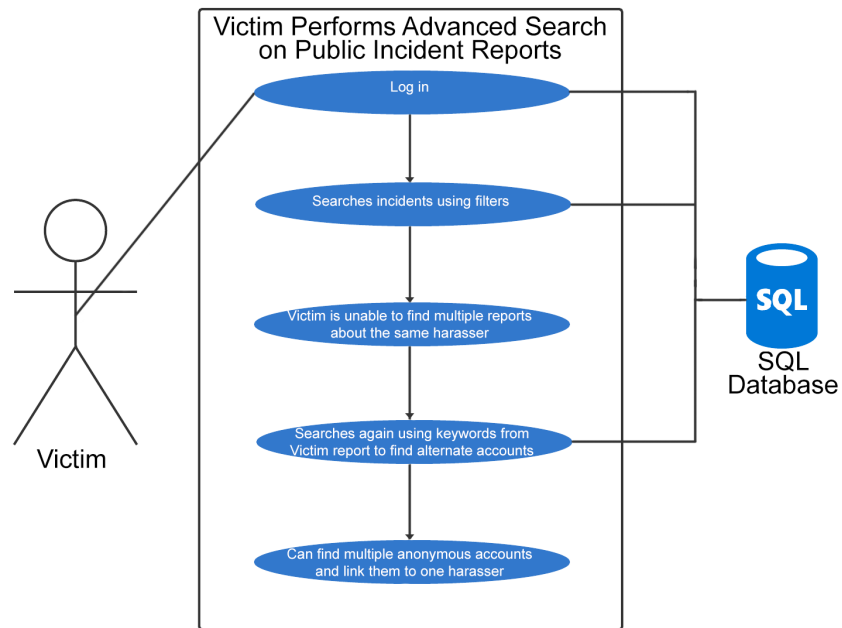


Figure 6: A victim performs more advanced search of an anonymous harasser by utilizing keywords from reports, photographs or other possible identifiers.

1.3 Database Design Documentation and ER Diagrams

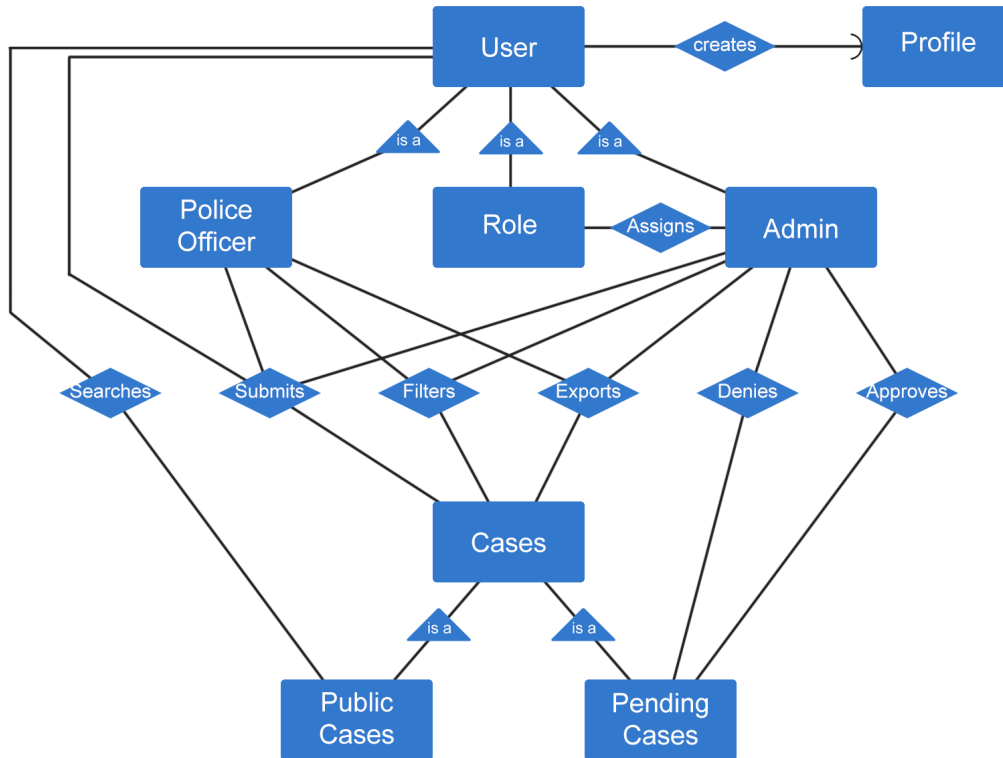


Figure 7: ER diagram for the project

1. Entities

- User
- Admin
- Police Officer
- Cases
- Public Cases
- Private Cases
- Pending Cases
- Role
- Profile

2. Relationships

- User creates Profile
- Admin approves Pending Cases
- Admin denies Pending Cases

- Police Officer filters Cases
- User searches Public Cases
- User submits Pending Cases
- Admin assigns Role
- Police Officer exports Cases

1.4 Relation Specification

user(userID, unique email, password, type)
 profile(first, last, dob, phone, isContactable, isAnon, allowsPublicPosts)
 policeOfficer(userID, lawID, dept, state, county)
 admin(date expires)
 role(type)
 cases(caseID, userID, platform, notes, photos, isPublic, isPending)