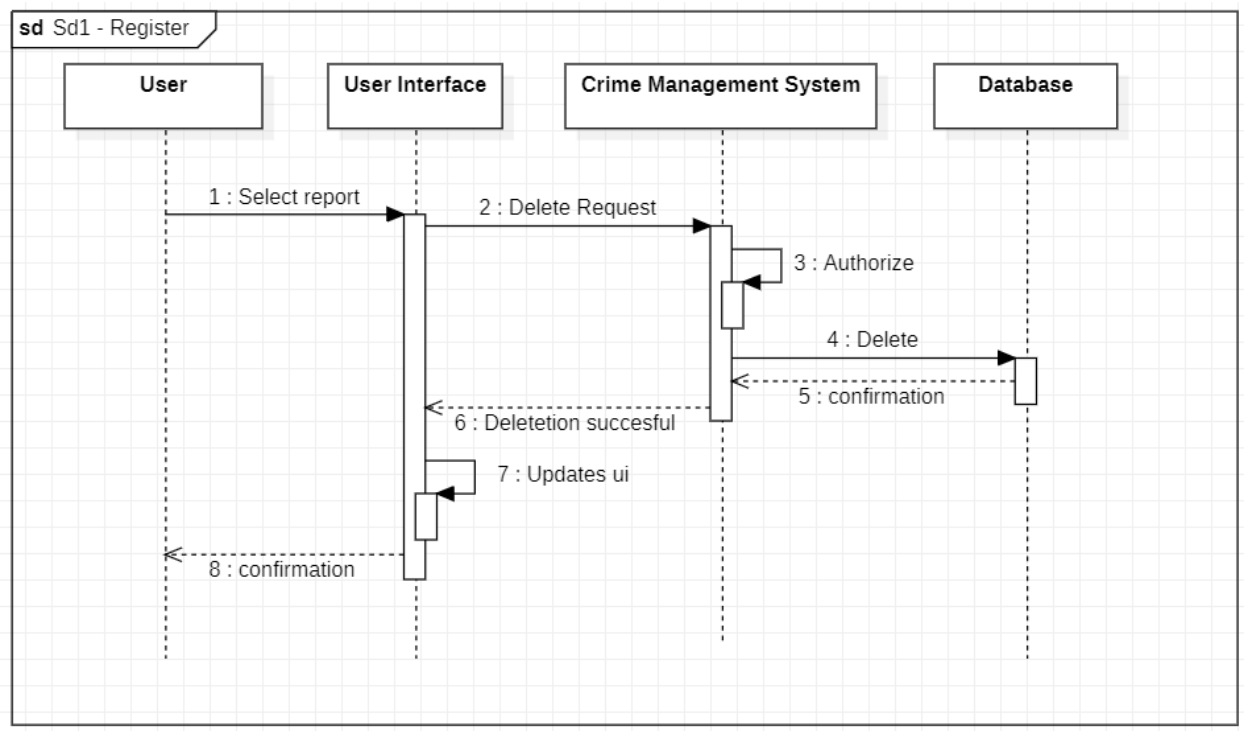| Name	Deepanshu Aggarwal, Kunal Bhatia
UID No.	2021300002, 2021300010
Class	Comps A
Experiment No.	4

AIM: To create interaction diagrams (sequence and collaboration diagrams) from use cases implemented for Crime Reporting Website.

PROBLEM STATEMENT: In today's fast-paced digital age, ensuring community safety and bridging the gap between citizens and law enforcement agencies is a pressing concern. Existing crime reporting systems often lack user engagement and real-time updates, leading to a disconnect between residents and the incidents occurring in their neighbourhoods. To address these challenges, we propose "SecureSpot," a user-friendly and interactive crime reporting website. SecureSpot aims to empower individuals to report crimes, receive real-time updates, engage in discussions, and access detailed crime analyses. By providing a seamless platform for communication and data-driven decision-making, SecureSpot strives to create safer communities and enhance overall public security.
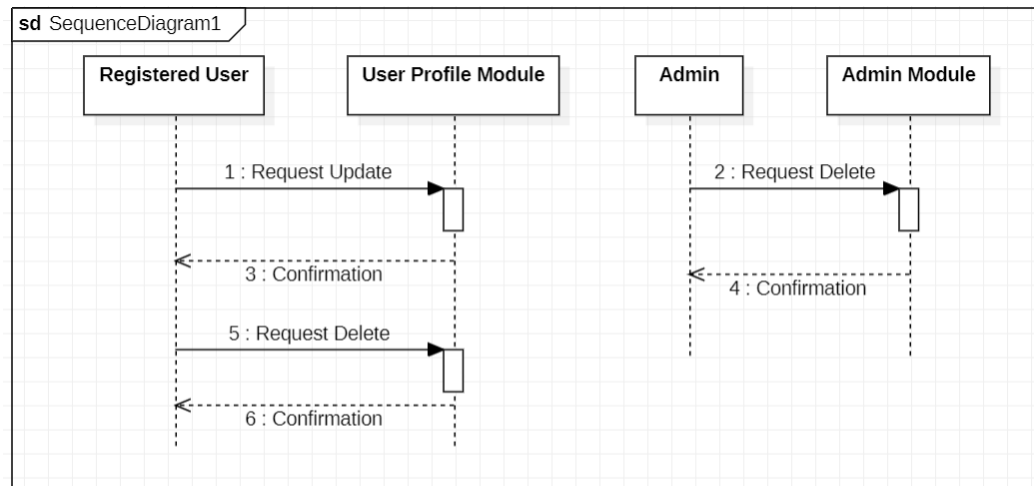
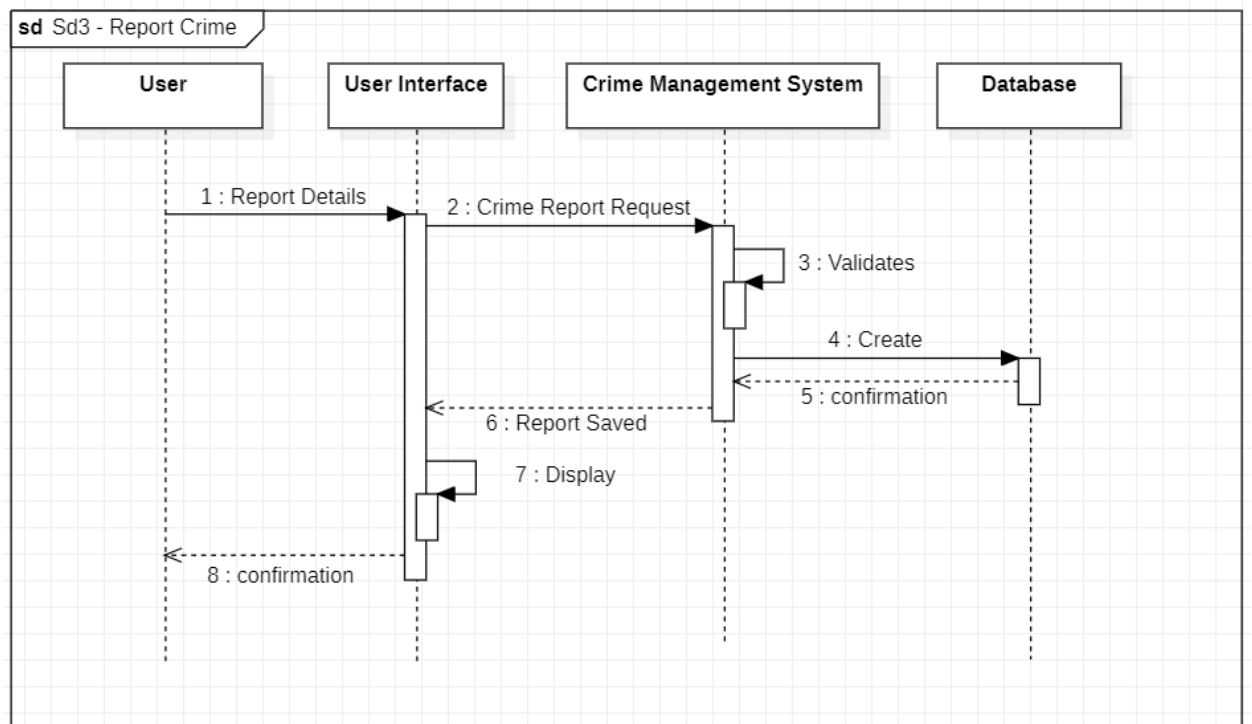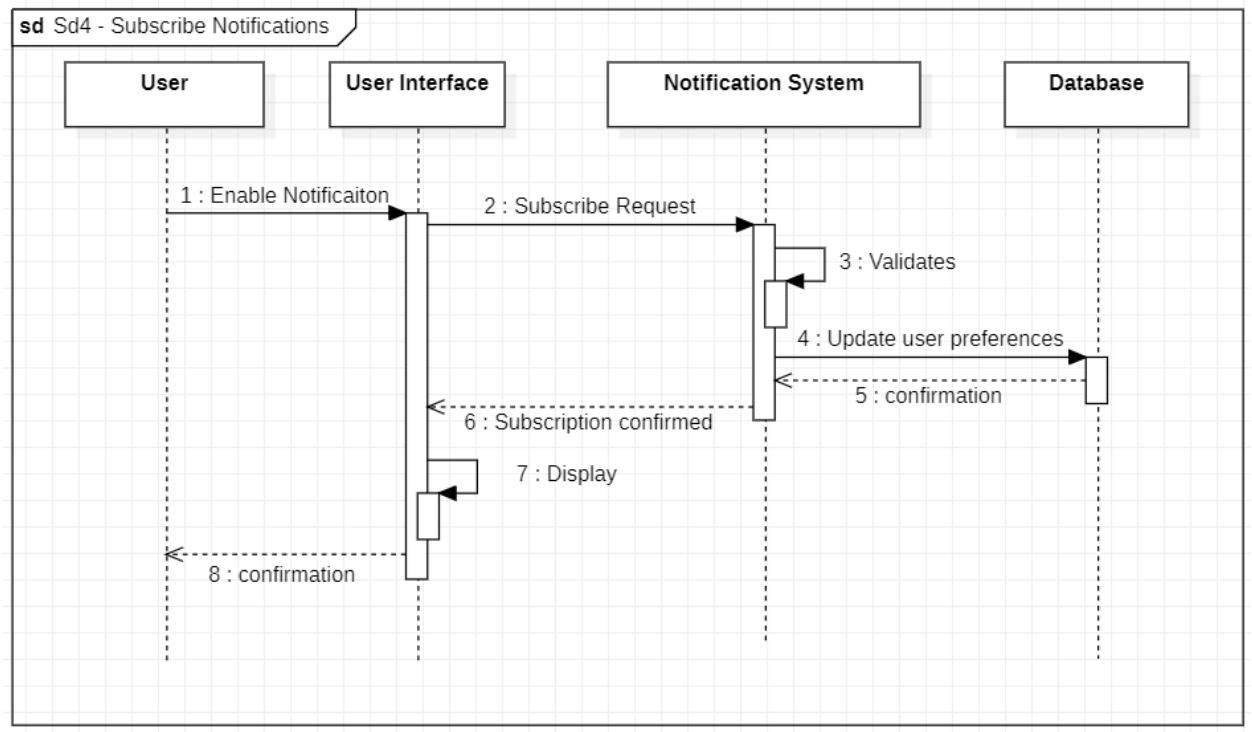**INTERACTION DIAGRAMS:**

Sequence Diagrams:

1. Delete Report

2. Manage Profile

sd SequenceDiagram1

| Registered User | User Profile Module | Admin | Admin Module |

1 : Request Update
2 : Request Delete
3 : Confirmation
4 : Confirmation
5 : Request Delete
6 : Confirmation

3. Report Crime

sd Sd3 - Report Crime

| User | User Interface | Crime Management System | Database |

1 : Report Details
2 : Crime Report Request
3 : Validates
4 : Create
5 : confirmation
6 : Report Saved
7 : Display
8 : confirmation

4. Subscribe notifications.

sd Sd4 - Subscribe Notifications

User | User Interface | Notification System | Database

1 : Enable Notificaiton
2 : Subscribe Request
3 : Validates
4 : Update user preferences
5 : confirmation
6 : Subscription confirmed
7 : Display
8 : confirmation

5. Generate Crime Analysis

sd Sd5 - Crime Analysis

Register User | User Interface | Crime Analysis System

1 : Request Analysis
2 : Analysis Request
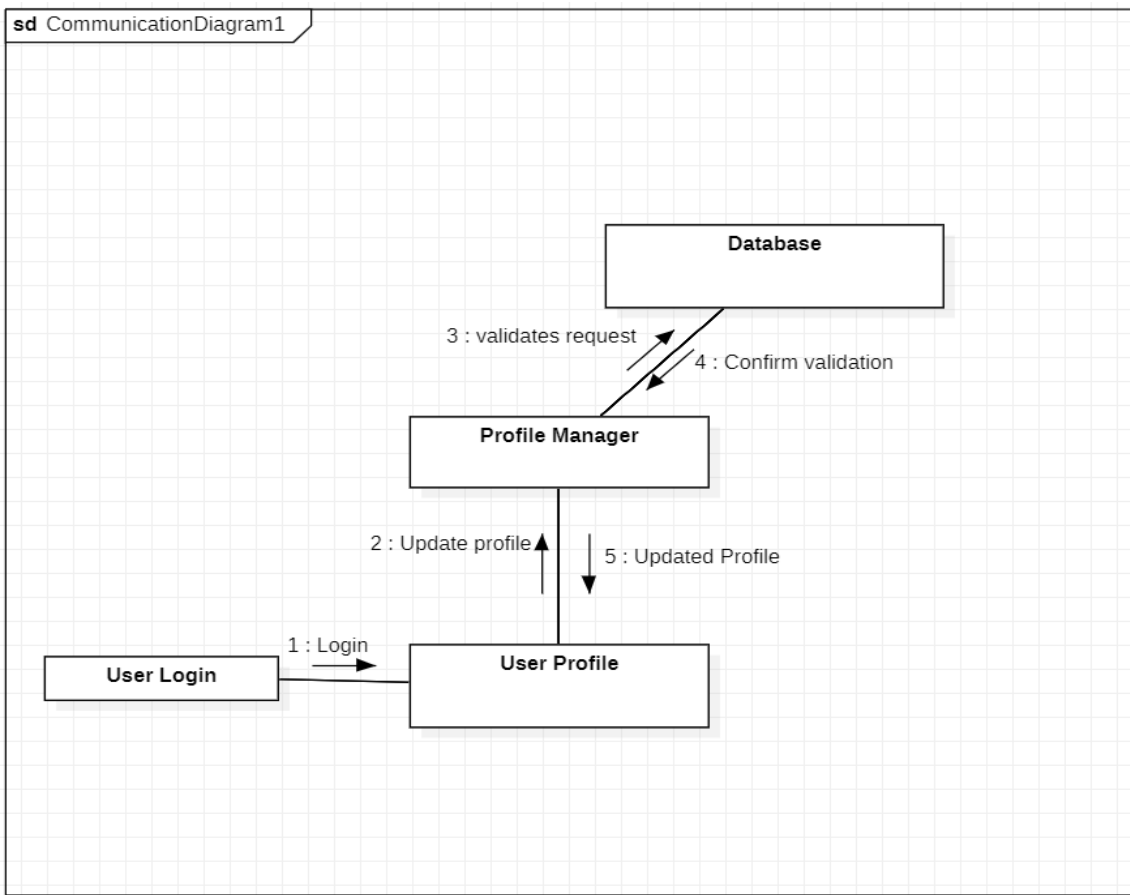3 : Processes Data
4 : Generate analysis
5 : Analysis results
6 : Display
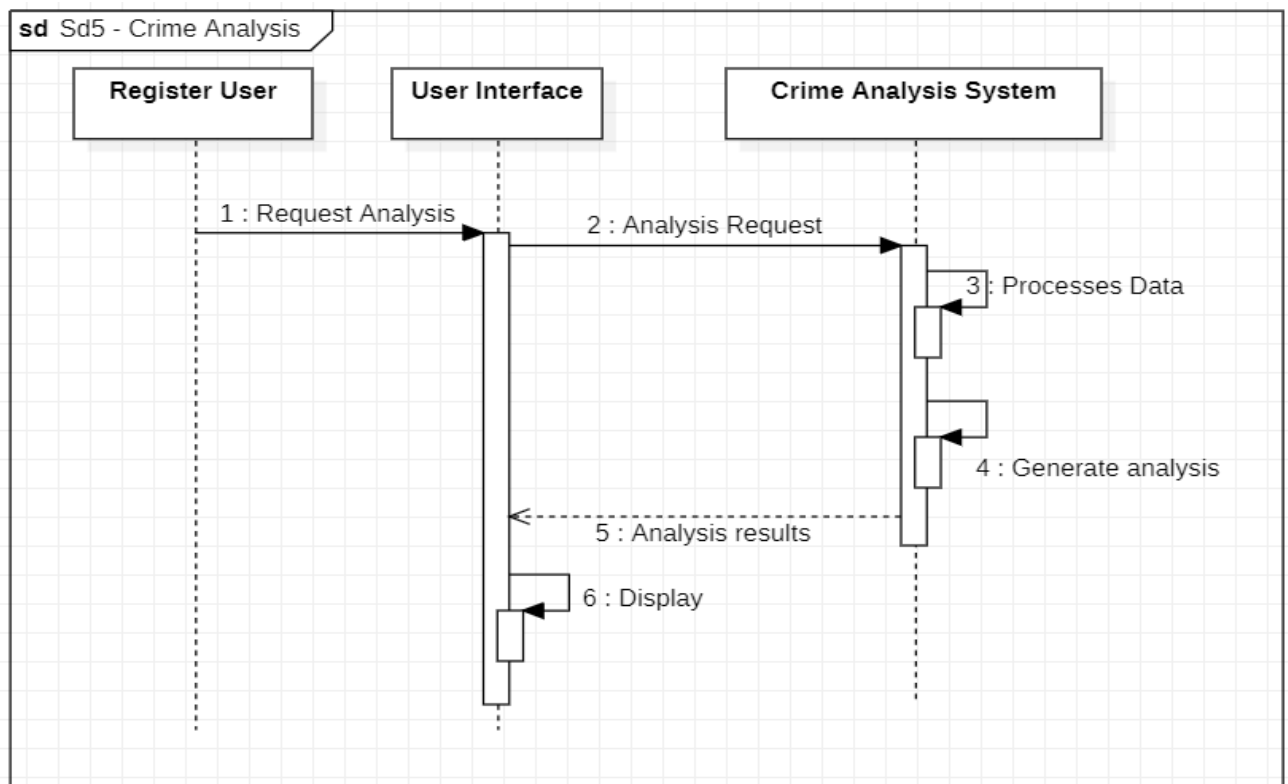
6. Post Comment
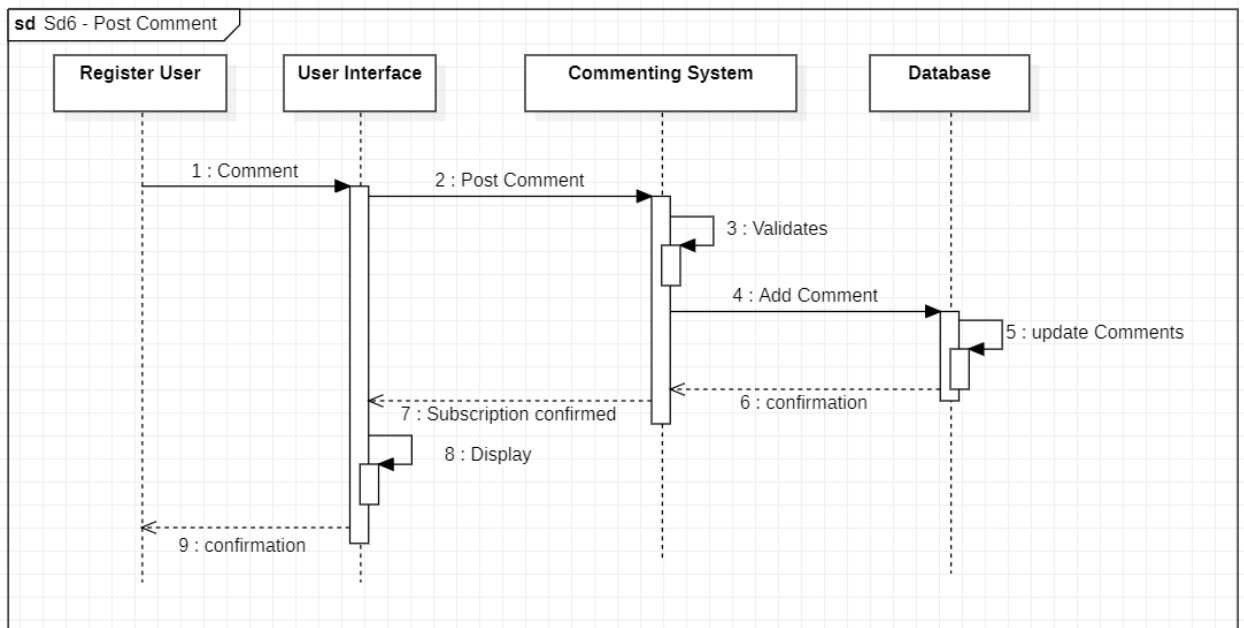
Collaboration Diagram:

CONCLUSION: Through this experiment, we learnt the concept of interaction diagrams i.e. sequence diagram and collaboration diagram. We made interaction diagram for all of our use cases and collaboration diagram for one use case.