UML Diagram for Each Entity

User

- user_id
- username
- email
- role

- view_incidents()
- view_incidents()
- set_preferences()

Incident

- incident_id
- description
- timestamp
- severity
- status

- update_status()
- classify_incident()

Alert

- alert_id
- incident_id
- alert_message
- recipient_user
- alert_type

- send_alert()
- acknowledge_alert()

acknowledge_alert()

- report_id
- title
- content
- generated_by

- generate_report()
- view_report()

MLModel

- model_id
- model_type
- training_data
- accuracy

- train_model()
- evaluate_model()
- predict_incident_severity()

Database

- db_name
- db_type

- connect()
- store_data()
- retrieve_data()
- update_data()