

UML Diagram:

Location
- name: String = null - address: String = null
+ Location() + Location(name: String, address: String) + setName(name: String): void + getName(): String + setAddress(address: String): void + getAddress(): String

FamilyRelation
- personOne: DisasterVictim = null - personTwo: DisasterVictim = null - relationship: String = null
+ FamilyRelation() + FamilyRelation(personOne: DisasterVictim, personTwo: DisasterVictim, relationship: String) + setPersonOne(personOne: DisasterVictim): void + getPersonOne(): DisasterVictim + setPersonTwo(personTwo: DisasterVictim): void + getPersonTwo(): DisasterVictim + setRelationship(relationship: String): void + getRelationship(): String

Supply
- type: String = null - quantity: int = 0
+ Supply() + Supply(type: String, quantity: int) + setType(type: String): void + getType(): String + setQuantity(quantity: int): void + getQuantity(): int

DisasterVictim
- firstName: String = null - lastName: String = null - dateOfBirth: String = null - age: int = 0 - gender: String = null - comments: String = null - entryDate: String (readOnly) = null - assignedSocialWorkerID: int = 0 - medicalRecords: MedicalRecord[] = null - personalBelongings: Supply[] = null - familyConnections: FamilyRelation[] = null - housingLocation: Location = null - phoneNumber: String = null
+ DisasterVictim() + DisasterVictim(firstName: String, entryDate: String) + setFirstName(firstName: String): void + getFirstName(): String + setLastName(lastName: String): void + getLastName(): String + setDateOfBirth(dateOfBirth: String): void + getDateOfBirth(): String + setAge(age: int): void + getAge(): int + setGender(gender: String): void + getGender(): String + setComments(comments: String): void + getComments(): String + getEntryDate(): String + setAssignedSocialWorkerID(id: int): void + getAssignedSocialWorkerID(): int + setHousingLocation(housingLocation: Location): void + getHousingLocation(): Location + setPhoneNumber(phoneNumber: String): void + getPhoneNumber(): String + getMedicalRecords(): MedicalRecord[] + addMedicalRecord(record: MedicalRecord): void + getPersonalBelongings(): Supply[] + addPersonalBelongings(supply: Supply): void + getFamilyConnections(): FamilyRelation[] + addFamilyConnection(connection: FamilyRelation): void

MedicalRecord
- location: Location = null - treatmentDetails: String = null - dateOfTreatment: String = null
+ MedicalRecord() + MedicalRecord(location: Location, treatmentDetails: String, dateOfTreatment: String) + setLocation(location: Location): void + getLocation(): Location + setTreatmentDetails(treatmentDetails: String): void + getTreatmentDetails(): String + setDateOfTreatment(dateOfTreatment: String): void + getDateOfTreatment(): String

InquiryLog
- inquirer: DisasterVictim = null - missingPerson: DisasterVictim = null - dateOfInquiry: String = null - infoProvided: String = null - lastKnownLocation: Location = null
+ InquiryLog() + InquiryLog(inquirer: DisasterVictim, missingPerson: DisasterVictim, dateOfInquiry: String, infoProvided: String, lastKnownLocation: Location) + setInquirer(inquirer: DisasterVictim): void + getInquirer(): DisasterVictim + setMissingPerson(missingPerson: DisasterVictim): void + getMissingPerson(): DisasterVictim + setDateOfInquiry(dateOfInquiry: String): void + getDateOfInquiry(): String + setInfoProvided(infoProvided: String): void + getInfoProvided(): String + setLastKnownLocation(lastKnownLocation: Location): void + getLastKnownLocation(): Location

Sample Data Instantiation

(IDs: Location(#), Supply(#), MedicalRecord(#), DisasterVictim(#), FamilyRelation(#), InquiryLog(#))

Locations

Location (1): TELUS Convention Centre, 136 8 Ave SE

Location (2): University of Calgary, 2500 University Dr NW

Location (3): Dispatch centre, address null

Location (4): Paris, address null

Supplies

Supply (1): toiletries kit x1

Supply (2): clothes x2

Supply (3): toiletries kit x1

Supply (4): clothes x2

Supply (5): toiletries kit x1

Supply (6): clothes x2

Supply (7): toiletries kit x1

Supply (8): toiletries kit x1

MedicalRecords

MedicalRecord (1): loc Location(1); broken arm treated; 2025-01-18

MedicalRecord (2): loc Location(2); twisted ankle; 2025-01-18

MedicalRecord (3): loc Location(2); light burns; 2025-01-18

MedicalRecord (4): loc Location(2); pernicious anemia; 2025-01-18

DisasterVictims

DisasterVictim (1): Teruya; age 5; boy; entry 2025-01-18; SW 2891; housed Location(1); MR(1)

DisasterVictim (2): Freda McDonald; DOB 1986-06-03; woman; entry 2025-01-18; housed Location(2); MR(2),(3); Supply(1),(2)

DisasterVictim (3): Joseph Bouillon; DOB 1988-05-03; calling from Paris; seeking wife+kids

DisasterVictim (4): Cornelia ten Boom; DOB 1972-04-15; entry 2025-01-18; housed Location(2); Supply(3),(4); volunteer

DisasterVictim (5): Elisabeth ten Boom; DOB 1965-08-19; entry 2025-01-18; housed Location(2); MR(4); Supply(5),(6); volunteer

DisasterVictim (6): Casper ten Boom; DOB 1949-05-18; entry 2025-01-18; housed Location(2)

DisasterVictim (7): Hans Massaquoi; DOB 2020-01-19; boy; entry 2025-01-19; housed Location(2); Supply(7)

DisasterVictim (8): Bertha Nikodijevic; DOB 1993-05-10; woman; entry 2025-01-19; housed Location(2); Supply(8)

DisasterVictim (9): Jari Bouillon; missing

DisasterVictim (10): Luis Bouillon; missing

FamilyRelations

FamilyRelation (1): DV2 spouse DV3

FamilyRelation (2): DV2 parent DV1

FamilyRelation (3): DV2 parent DV9

FamilyRelation (4): DV2 parent DV10

FamilyRelation (5): DV4 sibling DV5

FamilyRelation (6): DV6 parent DV4

FamilyRelation (7): DV6 parent DV5

FamilyRelation (8): DV8 parent DV7

FamilyRelation (9): DV3 parent DV1

FamilyRelation (10): DV3 parent DV9

FamilyRelation (11): DV3 parent DV10

InquiryLog

InquiryLog (1): inquirer DV1; 2025-01-18; TELUS intake + MR1 + SW2891; lastKnown Location(1)

InquiryLog (2): inquirer DV2; missing DV9; 2025-01-18; looking for Teruya/Jari/Luis; lastKnown Location(2)

InquiryLog (3): inquirer DV4; 2025-01-18; arrived w/ sister+father; volunteer; anemia noted; lastKnown Location(2)

InquiryLog (4): inquirer DV8; 2025-01-19; entered w/ Hans; no injuries; kit issued; lastKnown Location(2)

InquiryLog (5): inquirer DV3; missing DV2; 2025-01-19; called from Paris re wife+kids; lastKnown Location(4)