Disaster Relief System UML Class Diagram

Person - personID: int - firstName: String - lastName: String - dateOfBirth: Date

- gender: String
- height: double = 0.0
- weight: double = 0.0
- medicalCondition: String
- appearance: String
- languageSpoken: String
- notes: String
- isVolunteer: boolean
- + Person()
- + getFullName(): String
- + getAge(): int
- + updateMedicalCondition(condition: String): void
- + getHeight(): double
- + getWeight(): double
- + updatePhysicalAttributes(height:double, weight:double): void
- + setVolunteerStatus(isVolunteer: boolean): void
- + isVolunteer(): boolean

Shelter

- shelterID: int - shelterName: String
- address: String
- contactInfo: String
- + Shelter()
- + getShelterInfo(): String
- + updateContactInfo(contact: String): void

ContactLogs

- logID: int
- date: Date
- description: String
- personID: int
- socialWorkerID: int
- + ContactLog()
- + addLogEntry(entry: String): void
- + getLogDetails(): String

SocialWorker

- workerID: in
- firstName: String
- lastName: String
- contactInfo: String
- + SocialWorker(
- + getFullName(): String
- + getContactDetails(): String
- + assignToPerson(personID:int): void

FamilyMemberSearch

- searchID: int
- searcherFirstName: String
- searcherLastName: String
- relationship: String
- missingPersonID: int
- + FamilyMemberSearch()
- + getFullName(): String
- + initiateSearch(): void
- + getSearchStatus(): String

Instantiation Example

Person (1)

personID: 101 firstName: Teruya lastName: Smith

dateOfBirth: 2012-01-01

gender: Male

languageSpoken: French, Japanese medicalCondition: Broken arm appearance: black hair, brown eyes

height: 43.5 weight: 38.3 isVolunteer: false

notes: alert but a little shy

Shelter (1)

shelterID: 01

shelterName: Telus Convention Centre

address: 136 8 Ave SE contactInfo: 403-123-4567

SocialWorker (1)

workerID: 2891 firstName: Jane lastName: Doe

contactInfo: jane.doe@example.com

ContactLog (1)

logID: 5001

date: 2025-01-15

description: Teruya was treated for broken arm and assigned social worker for him

personID: 101

socialWorkerID: 2891

FamilyMemberSearch (1)

searchID: 3001

searcherFirstName: Joseph searcherLastName: Bouillon

relationship: Father missingPersonID: 101

Person (2)

personID: 102 firstName: Freda lastName: McDonald dateOfBirth: 1986-06-03

gender: Female

languageSpoken: English

medicalCondition: Twisted ankle, light burns

appearance: N/A

height: N/A weight: N/A isVolunteer: false

notes: Looking for her children Jari, Teruya

FamilyMemberSearch (2)

searchID: 3002

searcherFirstName: Joseph searcherLastName: Bouillon

relationship: Husband missingPersonID: 102