User Documentation for the Relief Worker Interface Program

Overview

The Relief Worker Interface Program provides a command-line interface for managing disaster victim entries and conducting victim inquiries. The system allows relief workers to enter victim data, search for existing victims by name, and log inquiries.

Requirements

- Java JDK 11 or newer
- PostgreSQL database
- JDBC driver for PostgreSQL (e.g., **postgresql-42.7.3.jar**)

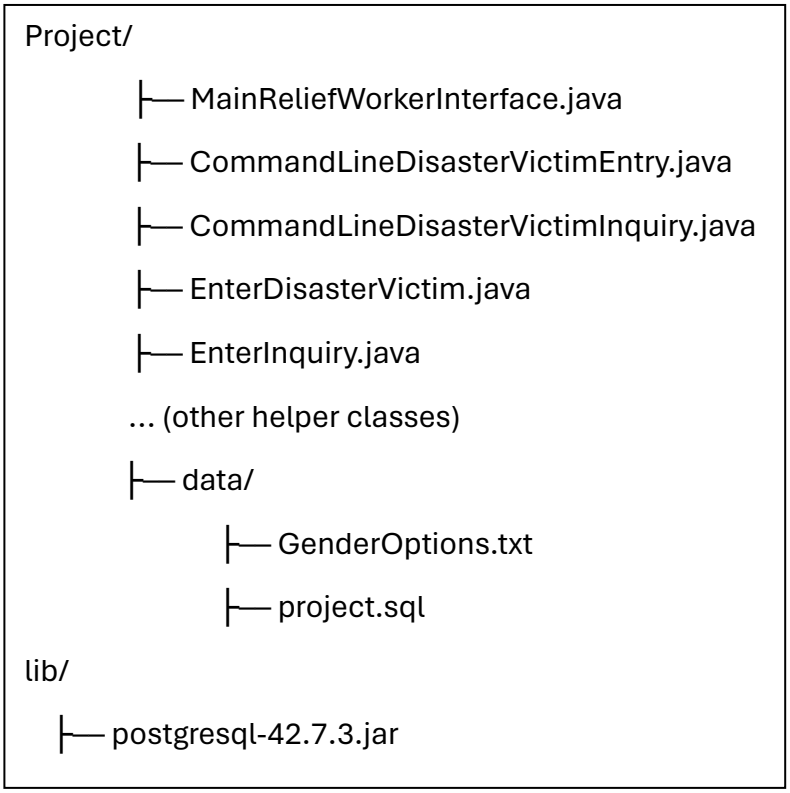
Setting Up the Environment

1. **Java Development Kit (JDK):** Ensure Java JDK 11 or newer is installed on your system. You can download it from Oracle's official site.
2. **Database Setup:** Install PostgreSQL if it is not already installed. Create a database named **ensf380project** and execute the SQL scripts provided to set up the necessary tables. (detailed instructions on how to create and run the database can be found here)
3. **JDBC Driver:** Download the PostgreSQL JDBC driver from the official PostgreSQL website. Make sure the JDBC jar file is included in your project's classpath.

Compiling the Program

Directory Structure:

Ensure your project directory is structured properly:



Compile Java Files

Open a command prompt or terminal in the **src** directory. Compile the Java files using:

```
javac -cp ".:../lib/*"  edu/ucalgary/oop/*.java
```

For Windows, replace **.:../lib/*** with **.;..\lib***.

Running the Program

Start the Program:

From the **src** directory, run the **MainReliefWorkerInterface** using:

```
java -cp ".:../lib/*"  edu.ucalgary.oop.MainReliefWorkerInterface
```

For Windows, replace **.:../lib/*** with **.;..\lib***.

Using the Program:

- When prompted, select between:
    1. **Location Based Worker** - To enter or manage disaster victim data.
    2. **Central Worker** - To search for victims by name and log inquiries.
    3. **Exit** - To terminate the program.
- Follow the on-screen instructions to perform the desired operations.

Example Usage

- **Enter a New Disaster Victim:**
    - Choose **1** from the main menu to enter the Disaster Victim Entry system.
    - Follow prompts to input victim details and medical records.
- **Search and Log Inquiries:**
    - Choose **2** from the main menu for the Inquiry System.
    - Input a part of a victim's name to search.
    - Choose to log the inquiry, providing your registered phone number and details of the inquiry.

User Documentation for Setting Up and Running the PostgreSQL Database for the Relief Worker Interface Program

Overview

This guide outlines the steps to set up the PostgreSQL database for use with the Relief Worker Interface Program. The database will be prepared to manage data related to disaster victims, their families, and inquiries (A relational model representation has been provided for detailed representation of database relations.)

Prerequisites

- PostgreSQL installed on your system.
- Access to a PostgreSQL command line tool (psql) or a graphical interface that allows running SQL scripts (e.g., pgAdmin)

Setting Up the Database

Access the PostgreSQL Command Line:

- Open your PostgreSQL command-line tool, **psql**, or use a graphical interface to connect to your PostgreSQL server.
- If using **psql**, connect to your PostgreSQL server. You might need to enter a command like the following, depending on your PostgreSQL setup:

```
psql -U username -h hostname
```

  Replace **username** with your PostgreSQL username and **hostname** with the host where your PostgreSQL server is running (use **localhost** if it is on your local machine).

Create the Database and Set Permissions:

- Run the following commands in the **psql** command line or in the SQL query tool in your graphical interface:

```
DROP DATABASE IF EXISTS ensf380project;
CREATE DATABASE ensf380project;
ALTER DATABASE ensf380project OWNER TO oop;
GRANT ALL PRIVILEGES ON DATABASE ensf380project TO oop;
```

- These commands create a new database named **ensf380project** and set the user **oop** as the owner.

Switch to the New Database:

- To start using the newly created database, enter

```
\c ensf380project
```

Run the SQL Script:

- Navigate to the directory containing your project, specifically under the **project folder/data** where the **project.sql** script is located.
- Run the script directly if you are using a graphical interface like pgAdmin by opening the file in the query tool and executing it.
- If using **psql**, you can run the script file using:

```
\i path_to_your_project_folder/data/project.sql
```

- Replace **path_to_your_project_folder** with the actual path to the directory where the **project.sql** file is stored.

Verify the Setup:

- After running the script, you can check that the tables and initial data have been set up correctly by running:

```
SELECT * FROM DISASTER_VICTIM;
SELECT * FROM INQUIRER;
```

- These commands should display the data for disaster victims and inquirers as defined in the **project.sql** script
- In case the script doesn't run, please open the file and follow the instructions outline in the top comments, else consult this documentation to help setup