

Project Setup and Running Guide

Prerequisites

Before setting up the project, ensure you have the following installed:

- **NetBeans IDE** (Preferably NetBeans 12 or later)
- **Java Development Kit (JDK)** (JDK 17 or later recommended)
- **JavaFX SDK** (JavaFX 17 or later)

Step 1: Extract the Project Zip File

1. Locate the ZIP file containing the project.
2. Extract the contents to a preferred directory (e.g., C:\Downloads\cds).

Step 2: Install JavaFX in NetBeans

Since NetBeans does not bundle JavaFX by default, follow these steps to install and configure it:

Option 1: Install JavaFX Plugin in NetBeans

1. Open **NetBeans**.
2. Go to **Tools > Plugins**.
3. Navigate to the **Available Plugins** tab.
4. Search for **JavaFX**.
5. Select and install the JavaFX plugin.
6. Restart NetBeans.

Option 2: Manually Configure JavaFX SDK

If JavaFX is not automatically available, you need to configure it manually:

1. Download the latest **JavaFX SDK** from GluonHQ.
2. Extract the SDK to a directory (e.g., C:\javafx-sdk).
3. Open **NetBeans** and navigate to **Tools > Libraries**.
4. Click **New Library** and name it "JavaFX".
5. Click **Add JAR/Folder** and add all JAR files from C:\javafx-sdk\lib.
6. Click **OK** to save the changes.

Step 3: Open the Project in NetBeans

1. Open **NetBeans**.

2. Click **File > Open Project**.
3. Navigate to the extracted project folder.
4. Select the project and click **Open**.
5. Wait for NetBeans to load the project and resolve dependencies.

Step 4: Configure JavaFX in the Project

1. Right-click the project in NetBeans and select **Properties**.
2. Under **Libraries**, select **JavaFX**.
3. Ensure the JavaFX SDK path is set correctly.
4. Under **Run**, add the following VM options:
`--module-path "C:\javafx-sdk\lib" --add-modules javafx.controls,javafx.fxml`
5. Click **OK** to save.

Step 5: Run the Project

1. In **NetBeans**, right-click the project and select **Run**.
2. The JavaFX application should launch, displaying the welcome screen.
3. Choose to **Login** or **Register** to proceed further.

Troubleshooting

If you encounter issues, check the following:

- Ensure **JDK and JavaFX versions are compatible**.
- Ensure **JavaFX is correctly added in Libraries**.
- If using **manual JavaFX setup**, verify the correct module-path is set.

SQL Script To make the tables in the databases are:

```
CREATE TABLE User (  
  id INT PRIMARY KEY AUTO_INCREMENT,  
  name VARCHAR(100) NOT NULL,  
  email VARCHAR(100) UNIQUE NOT NULL,  
  password VARCHAR(255) NOT NULL,  
  role ENUM('DONOR', 'FUNDRAISER', 'ADMIN') NOT NULL  
);
```

```
CREATE TABLE Campaign (  
  id INT PRIMARY KEY AUTO_INCREMENT,  
  title VARCHAR(255) NOT NULL,  
  description TEXT NOT NULL,  
  goal_amount DECIMAL(10,2) NOT NULL,  
  raised_amount DECIMAL(10,2) DEFAULT 0,  
  fundraiser_id INT,  
  FOREIGN KEY (fundraiser_id) REFERENCES User(id) ON DELETE CASCADE  
);
```

```
CREATE TABLE Donation (  
  id INT PRIMARY KEY AUTO_INCREMENT,  
  amount DECIMAL(10,2) NOT NULL,  
  donor_id INT,  
  campaign_id INT,  
  date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
  FOREIGN KEY (donor_id) REFERENCES User(id) ON DELETE CASCADE,  
  FOREIGN KEY (campaign_id) REFERENCES Campaign(id) ON DELETE CASCADE  
);
```

```
-- drop table campaign;  
-- drop table donation;  
-- drop table user;
```