Identity-Based Scheme Deployment System (IBSDS)

This repository contains the source code for the Identity-Based Scheme Deployment System (IBSDS), an application designed to streamline government scheme management in India. IBSDS leverages Aadhaar integration for beneficiary registration and verification (placeholder for future implementation), offering a user-friendly platform for both beneficiaries and government officials.

Prerequisites:

- Java Development Kit (JDK) 8 or later
  (https://www.oracle.com/java/technologies/javase/downloads/)
- Java IDE with project management capabilities (e.g., Eclipse, IntelliJ IDEA)
- MySQL Connector/J library (https://dev.mysql.com/downloads/connector/j/)
- JCalendar library (https://sourceforge.net/projects/jcalendar/)

Installation:

1. **Clone this repository:** `git clone`

https://github.com/dhruvravii/scheme_deployment.git

2. **Navigate to the project directory:** `cd scheme_deployment`
3. **Include Libraries:**
   - Download the `mysql-connector-java.jar` file from the MySQL Connector/J download page.
   - Download the `jcalendar.jar` file from the JCalendar project page.
   - Place both downloaded `.jar` files in a directory within your project (e.g., `lib`).
4. **Configure Build Path:**
   - Open your IDE and navigate to project settings (e.g., Project Structure in IntelliJ IDEA).
   - Locate the **Libraries** section and click on **Add JARs...**.
   - Select the downloaded `mysql-connector-java.jar` and `jcalendar.jar` files from the chosen directory (step 3) and include them in your project's build path.

Running the Application:

1. Open your IDE and locate the file `MainWindow.java`
2. Use your IDE's functionalities to run
3. On running, you will see two options- Citizen and Government. Choose either preference to continue to the Citizen Portal or Government Portal correspondingly.

Datasets:

The application utilizes the following CSV datasets located in the `data` directory:

- `GovtTable.csv`: Stores information about government schemes.
- `GovtStats.csv`: Contains statistics related to government schemes.
- `Dataset(NULL_AS_BLANK).csv`:Contains the data of the citizens that we have used in the application, for various schemes.

Current Functionality:

Note: The current version of IBSDS does not yet have the functionality to create new government schemes. The existing schemes within the `GovtTable.csv` dataset have been populated manually based on certain arbitrary eligibility constraints. Functionality to add new schemes and manage their details is planned for future development.