Receipt Organizer

Receipt Organizer is a Java Swing-based desktop application that enables users to save, categorize, and search for recipes. It also offers meal planning features to enhance your culinary experience.

Requirements

- **Java Development Kit (JDK)**: Ensure JDK 14 or a newer version is installed on your system.
- **MySQL Database**: The application uses MySQL as its database. You need to have MySQL Community Server installed and running.
- **MySQL Connector/J**: Add the MySQL JDBC driver to your project to enable database connectivity.
- **Json library**: The application also has chatbot that require to use API

Installation

1. **Clone the Repository**: Open your terminal or command prompt and execute:

   ```
   git clone https://github.com/Ten-IO/Receipt-Organizer.git
   ```

   This command will create a local copy of the repository in your current directory.

2. **Navigate to the Project Directory**:

   ```
   cd Receipt-Organizer
   ```

3. **Set Up the Database**:
   - Install MySQL Community Server from the official MySQL website.
   - Create a new database for the application:

   ```
   CREATE DATABASE IF NOT EXISTS myDB;

   USE myDB;

   CREATE TABLE IF NOT EXISTS recipes (

       Name VARCHAR(255) NOT NULL,

       Category VARCHAR(100) NOT NULL,

       Ingredients VARCHAR(200) NOT NULL,

       Instructions VARCHAR(500) NOT NULL
   ```

```
);
```

- If you want to run by shell:

```
mysql -u root
```

4. **Configure Database Connection**:
   - Open the file located in the project's `config` directory.
   - Update the database URL, username, and password according to your MySQL setup:

```
ini
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db.url=jdbc:mysql://localhost:3306/myDB
db.username=root
db.password=your_password
```

5. **Add MySQL Connector/J to the Project**:
   - Download the MySQL Connector/J from the official MySQL website.
   - Extract the downloaded ZIP file to a preferred location.
   - In your IDE (e.g., Apache NetBeans), add the `mysql-connector-java-8.0.22.jar` to your project's classpath:
     - Right-click on your project in the Project Explorer.
     - Select `Properties` > `Libraries` > `Add JAR/Folder`.
     - Navigate to the extracted connector directory, select the JAR file, and click `Open`.
     - Ensure the `Build Dependencies` box is unchecked, then click `OK`.

     This process integrates the MySQL Connector/J into your project, enabling database connectivity.

6. **Run the Application**:
   - Compile and run the RecipeGui.java file located in the `src/gui` directory.
   - The main application window should appear, allowing you to interact with the features.

Configuring Image Paths

To ensure the application displays images correctly:

- Place your image files in the `images` directory within the project.
- Update the image paths in your code to reference this directory. For example:

```
String imagePath = "images/your_image.jpg";
```

This approach maintains a consistent structure and simplifies image management.