**"swiftcodes" Application User Manual**

This manual describes how to run the "swiftcodes" application, check the database, and use its API.

**1. Project Setup**

Open the "swiftcodes" project in your IntelliJ IDEA development environment. Then, run the application.

**2. Accessing the H2 Database**

To inspect the database contents, ensure you have the H2 database installed. Then, follow these steps:

a. Open your web browser and navigate to: [http://localhost:8080/h2-console/login.do](https://www.google.com/search?q=http://localhost:8080/h2-console/login.do)

b. Enter the following login credentials:

* **JDBC URL:** jdbc:h2:mem:swiftcodedb
* **Login:** sa
* **Password:** password

c. Click the **Connect** button to establish a connection to the database.

**3. Using the API with Postman**

Interacting with the "swiftcodes" API is recommended using the Postman application, which should be installed on your computer.

a. Launch the Postman application.

b. Navigate to your online workspace at: <https://web.postman.co/workspaces>

c. You can now utilize the following API commands:

* **[GET] http://localhost:8080/v1/swift-codes/{swift-code}**
  + **Description:** Returns information about a Bank based on the provided SWIFT code. If the SWIFT code belongs to a headquarters, it will also display information about all its branches.
  + **Example:** To retrieve information about the bank with the SWIFT code ABCDPLPWXXX, send a GET request to: http://localhost:8080/v1/swift-codes/ABCDPLPWXXX
* **[GET] http://localhost:8080/v1/swift-codes/country/{countryISO2code}**
  + **Description:** Returns all SWIFT codes with details for a specific country (both headquarters and branches). The country code should be provided in the ISO 3166-1 alpha-2 standard (two-letter country code).
  + **Example:** To retrieve a list of all SWIFT codes for Poland (ISO 3166-1 alpha-2 code: PL), send a GET request to: http://localhost:8080/v1/swift-codes/country/PL
* **[POST] http://localhost:8080/v1/swift-codes**
  + **Description:** Adds new SWIFT code entries to the database for a specific country.
  + **Request Structure (Body - Raw - JSON):**

JSON

{

"address": "string",

"bankName": "string",

"countryISO2": "string",

"countryName": "string",

"isHeadquarter": true/false,

"swiftCode": "string"

}

* + **Example:** To add a new bank branch:

JSON

{

"address": "10 New Street, Warsaw",

"bankName": "New Bank SA",

"countryISO2": "PL",

"countryName": "Poland",

"isHeadquarter": false,

"swiftCode": "NOWAPLPW001"

}

* **[DELETE] http://localhost:8080/v1/swift-codes/{swift-code}**
  + **Description:** Deletes SWIFT code data if the provided SWIFT code matches an entry in the database.
  + **Example:** To delete information about the bank with the SWIFT code OLDAPLPWXXX, send a DELETE request to: http://localhost:8080/v1/swift-codes/OLDAPLPWXXX

**Important Note:** The API runs locally. Any changes made to the database via the API will be lost after the application is shut down.