**Prerequisites**

1. Installed database from list of available: <https://spring.io/projects/spring-data-r2dbc#overview>
2. Java version 8+
3. Maven
4. Java IDE

**Task 1 - ETL process (2 Points)**

1. Create data model with following fields:

"id": int, // id of user

"login": string // username

1. Create Reactive Repository
2. Create Setup class with following functionality:

3.1. Requests sports from <https://api.github.com/users>

3.2. Parse Json Response using reactive pipelines and save objects using reactive repository.

**Task 2 - API for Users (2 Points)**

1. Implement the following API methods using Router Functions:

- POST /api/v1/users/{login]} // insert user by username (login). make sure that you correctly catch exceptions if the user with the provided name already exist.

- GET /api/v1/user?q=... //search user by username (login)

1. Implement methods in reactive repository with methods to support API above.

**Task 3 - Refactor ETL process using backpressure (1 Point)**

1. Modify our ETL implementation to apply backpressure. Tell the upstream to only send 20 elements at a time by using request ().
2. Log operations to see that request (20) is called, followed by 20 onNext () calls, then request(20) again and so on.