

## **Tech Exam**

### **Instructions:**

1. Create a public repository in your Github account for this project.
2. Start coding. You will have 3 week days.
3. After you finish please send the link to the repository.
4. Coding language - TypeScript.

### **The Challenge:**

Build some modules for a good account management system.

Develop the REST API resources that perform banking transactions with the following account entity:

ACCOUNT	TYPE
accountId	Numeric
personId	Numeric
balance	Monetary
dailyWithdrawalLimit	Monetary
activeFlag	Conditional
accountType	Numeric
createDate	Date

Account transactions sheet:

TRANSACTIONS	TYPE
transactionId	Numeric
accountId	Numeric
value	Monetary
transactionDate	Date

Persons (it is not necessary to perform operations with the person table ) , create the table to map the relationship with the account and send creation script of at least one person.

PESSOAS	TIPO
personId	Numeric
name	Text
document	Text
birthDate	Date

**What we expect as a minimum scope:**

- Implement path that performs the creation of an account.
- Implement path that performs deposit operation on an account.
- Implement path that performs balance inquiry operation on a given account.
- Implement path that performs withdrawal operation on an account.
- Implement path that performs the blocking of an account.
- Implement path that retrieves the account statement of transactions.

**What will be differential and evaluated:**

- Implement statement by period.
- Develop execution manual.
- Prepare documentation.
- Develop tests.
- Implementation of points of failure and resilience.
- Elaborate design of the project architecture.

**Good Luck !**