

# Programming Assignment - 1

## Your task

- Implement a Web service (SOAP/REST) that can fulfill the requirements as described below and send us the source code of your solution.
- Present your solution on the day of the interview.

## Instructions

In this assignment you are required to build your own **Transfer Service**, simulating one of the core functionalities of the Ingenico ePayments.

Using your service, users would be able to initiate a transfer from one account to another.

## Implementation

### Service should provide

- Ability to create monetary accounts with initial balance
- Ability to transfer money from one account to another

### Data Definition

- **Account** - Could be minimal with name and balance.  
Note: It is not required to maintain Currency. Assume all the balance in Euros.
- **Transfer** - Transfer request from one Account to another.

### Business Rules

- The account must not be overdrawn, i.e. have a negative balance.
- System should be able to handle simultaneous transfer requests.

## Documentation

Your code should be clear, consistent and self-documenting. A brief but clear description of the solution design, technology choices, limitations, possible deployment instructions and so forth **MUST** be included. All documentation that is not in code **MUST** be in either plain text or PDF format.

## Presentation Layer

No presentation layer is required for the assignment.

## Hints

- You can choose any Java library to complete the assignment.
- You can choose any persistence medium for this exercise (database, disk, memory)
- Include test scenarios to show the application capabilities.
- You can share the solution via a public git repository (e.g. github, gitlab...)