

## C) Testing with Postman

### 1) Header :

|                                     |              |                         |                    |      |           |          |         |
|-------------------------------------|--------------|-------------------------|--------------------|------|-----------|----------|---------|
| ☰ Docs                              | Params       | Auth                    | <u>Headers (9)</u> | Body | Scripts   | Settings | Cookies |
| Headers 7 hidden                    |              |                         |                    |      |           |          |         |
|                                     | Key          | Value                   | D...               | ...  | Bulk Edit | Presets  | ▼       |
| <input checked="" type="checkbox"/> | Content-Type | text/xml; charset=utf-8 |                    |      |           |          |         |

### 2) GetAccount :

- Request :

```
1 <soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
2   xmlns:ban="http://example.com/bank">
3   <soapenv:Header/>
4   <soapenv:Body>
5     <ban:GetAccountRequest>
6       <ban:accountId>A100</ban:accountId>
7     </ban:GetAccountRequest>
8   </soapenv:Body>
9 </soapenv:Envelope>
```

- Response :

```
</ XML ▾ ▶ Preview 🖼 Visualize ▾
1 <SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
2   <SOAP-ENV:Header/>
3   <SOAP-ENV:Body>
4     <ns2:GetAccountResponse xmlns:ns2="http://example.com/bank">
5       <ns2:account>
6         <ns2:accountId>A100</ns2:accountId>
7         <ns2:owner>Alice</ns2:owner>
8         <ns2:balance>150.00</ns2:balance>
9         <ns2:currency>TND</ns2:currency>
10      </ns2:account>
11    </ns2:GetAccountResponse>
12  </SOAP-ENV:Body>
13 </SOAP-ENV:Envelope>
```

➤ The Response returned the full account informations :

- accountId : A100
- owner : Alice
- balance : 150.00
- currency : TND

### 3) Deposit :

- Request :

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:ban="http://example.com/bank">
  <soapenv:Header/>
  <soapenv:Body>
    <ban:DepositRequest>
      <ban:accountId>A100</ban:accountId>
      <ban:amount>20.00</ban:amount>
    </ban:DepositRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

- Response :

Body Cookies Headers (7) Test Results ↺

XML Preview Visualize

```
1 <SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
2   <SOAP-ENV:Header/>
3   <SOAP-ENV:Body>
4     <ns2:DepositResponse xmlns:ns2="http://example.com/bank">
5       <ns2:newBalance>170.00</ns2:newBalance>
6     </ns2:DepositResponse>
7   </SOAP-ENV:Body>
8 </SOAP-ENV:Envelope>
```

➤ The Response returned the new balance :

- newBalance = 170.00

### 4) Fault (amount = -5):

- Request :

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:ban="http://example.com/bank">
  <soapenv:Header/>
  <soapenv:Body>
    <ban:DepositRequest>
      <ban:accountId>A100</ban:accountId>
      <ban:amount>-5</ban:amount>
    </ban:DepositRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

- Response :

```

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <faultcode>SOAP-ENV:Client</faultcode>
      <faultstring xml:lang="en">Amount must be > 0</faultstring>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

➤ SOAP Fault :

- faultcode : Client
- faultstring: Amount must be > 0

## D) Test with Postman

### 1) Valid Case :

- Request :

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:bank="http://example.com/bank">
  <soapenv:Body>
    <bank:CreateAccountRequest>
      <bank:accountId>C400</bank:accountId>
      <bank:owner>Aline Aloulou</bank:owner>
      <bank:balance>500.00</bank:balance>
      <bank:currency>TND</bank:currency>
    </bank:CreateAccountRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

- Response :

```

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <ns2:CreateAccountResponse xmlns:ns2="http://example.com/bank">
      <ns2:account>
        <ns2:accountId>C400</ns2:accountId>
        <ns2:owner>Aline Aloulou</ns2:owner>
        <ns2:balance>500.00</ns2:balance>
        <ns2:currency>TND</ns2:currency>
      </ns2:account>
      <ns2:message>Welcome Aline Aloulou! Your account has been created with ID: C400 and balance: 500.00 TND</ns2:message>
    </ns2:CreateAccountResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

### 2) Invalid Case 1 : Account already exists

- Request :

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
                  xmlns:bank="http://example.com/bank">
  <soapenv:Body>
    <bank:CreateAccountRequest>
      <bank:accountId>C400</bank:accountId>
      <bank:owner>Aline Aloulou</bank:owner>
      <bank:balance>500.00</bank:balance>
      <bank:currency>TND</bank:currency>
    </bank:CreateAccountRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

- Response :

Body Cookies Headers (6) Test Results | 🔍

XML Preview Debug with AI

```

1 <SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
2   <SOAP-ENV:Header/>
3   <SOAP-ENV:Body>
4     <SOAP-ENV:Fault>
5       <faultcode>SOAP-ENV:Client</faultcode>
6       <faultstring xml:lang="en">Account already exists with accountId: C400</faultstring>
7     </SOAP-ENV:Fault>
8   </SOAP-ENV:Body>
9 </SOAP-ENV:Envelope>

```

### 3) Invalid Case 2 : Amount <= 0

- Request :

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
                  xmlns:bank="http://example.com/bank">
  <soapenv:Body>
    <bank:CreateAccountRequest>
      <bank:accountId>D300</bank:accountId>
      <bank:owner>Mayssam</bank:owner>
      <bank:balance>-10</bank:balance>
      <bank:currency>TND</bank:currency>
    </bank:CreateAccountRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

- Response :

```

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <faultcode>SOAP-ENV:Client</faultcode>
      <faultstring xml:lang="en">Initial balance must be >= 0</faultstring>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```