Client:

In the client master, we register the clients who come to the library to request a loan. The clients we register are not the same as users.
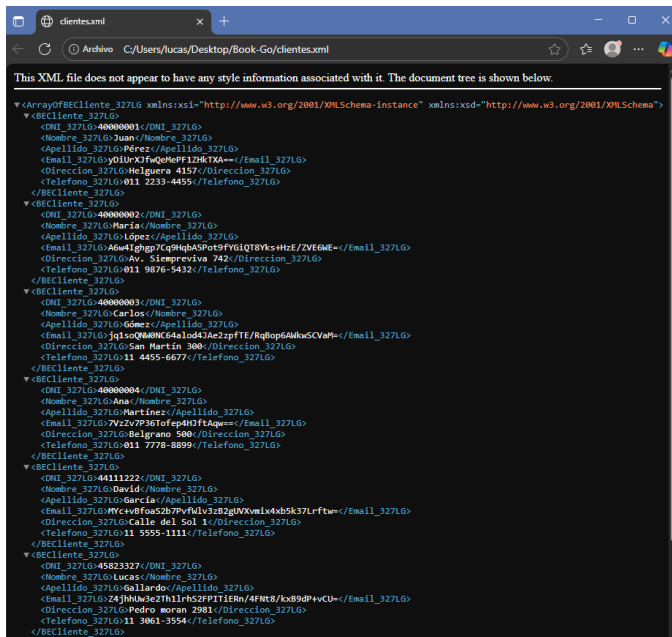

Register, Delete, Modify:

In the form, we will have the Register button, to enter new clients, Delete to deactivate existing ones that we select in the grid, and Modify to change the data of the selected client. To carry out these options, we will have fields that we must fill in:

- DNI: 8 numerical identification characters for the client.
- Name: Client's first name.
- Last Name: Client's last name.
- Email: Client's email address in the format "`<nombreApellido@ejemplo.com>`"
- Address: Client's home address.
- Phone: Client's phone number in the format "`011 1234-5678`"

note: The emails are stored encrypted in the database; we can see the unencrypted content by checking the "decrypt" box.

Serialize, Deserialize:

In addition to the creation, deletion, and modification functions, we can serialize the loaded clients into an XML file and deserialize them to display them on the grid. The **"Update Grid"** button will serve to reload the clients that are in the database.

```xml
<ArrayOfBECliente_327LG xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <BECliente_327LG>
    <DNI_327LG>40000001</DNI_327LG>
    <Nombre_327LG>Juan</Nombre_327LG>
    <Apellido_327LG>Pérez</Apellido_327LG>
    <Email_327LG>yDiUrXJfwQeMePF1ZHkTXA==</Email_327LG>
    <Direccion_327LG>Helguera 4157</Direccion_327LG>
    <Telefono_327LG>011 2233-4455</Telefono_327LG>
  </BECliente_327LG>
  <BECliente_327LG>
    <DNI_327LG>40000002</DNI_327LG>
    <Nombre_327LG>María</Nombre_327LG>
    <Apellido_327LG>López</Apellido_327LG>
    <Email_327LG>A6w4Ighgp7Cq9HqbA5Pot9fYGiQT8Yks+HzE/ZVE6WE=</Email_327LG>
    <Direccion_327LG>Av. Siempreviva 742</Direccion_327LG>
    <Telefono_327LG>011 9876-5432</Telefono_327LG>
  </BECliente_327LG>
  <BECliente_327LG>
    <DNI_327LG>40000003</DNI_327LG>
    <Nombre_327LG>Carlos</Nombre_327LG>
    <Apellido_327LG>Gómez</Apellido_327LG>
    <Email_327LG>jq1soQNW0NC64alod4JAe2zpfTE/RqBop6AWkwSCVaM=</Email_327LG>
    <Direccion_327LG>San Martín 300</Direccion_327LG>
    <Telefono_327LG>11 4455-6677</Telefono_327LG>
  </BECliente_327LG>
  <BECliente_327LG>
    <DNI_327LG>40000004</DNI_327LG>
    <Nombre_327LG>Ana</Nombre_327LG>
    <Apellido_327LG>Martínez</Apellido_327LG>
    <Email_327LG>7VzZv7P36Tofep4HJftAqw==</Email_327LG>
    <Direccion_327LG>Belgrano 500</Direccion_327LG>
    <Telefono_327LG>011 7778-8899</Telefono_327LG>
  </BECliente_327LG>
  <BECliente_327LG>
    <DNI_327LG>44111222</DNI_327LG>
    <Nombre_327LG>David</Nombre_327LG>
    <Apellido_327LG>García</Apellido_327LG>
    <Email_327LG>MYc+v8foaS2b7PvfWlv3zB2gUVXvmix4xb5k37Lrftw=</Email_327LG>
    <Direccion_327LG>Calle del Sol 1</Direccion_327LG>
    <Telefono_327LG>11 5555-1111</Telefono_327LG>
  </BECliente_327LG>
  <BECliente_327LG>
    <DNI_327LG>45823327</DNI_327LG>
    <Nombre_327LG>Lucas</Nombre_327LG>
    <Apellido_327LG>Gallardo</Apellido_327LG>
    <Email_327LG>Z4jhhUw3e2Th1lrhS2FPITiERn/4FNt8/kx89dP+vCU=</Email_327LG>
    <Direccion_327LG>Pedro moran 2981</Direccion_327LG>
    <Telefono_327LG>11 3061-3554</Telefono_327LG>
  </BECliente_327LG>
```

This is what the file will look like once serialized.