G3 Banking API

MessageType Enum:

```
CONNECT_CLIENT - Used to tell the server an ATM machine has connected.CONNECT_TELLER - Used to tell the server a Teller machine has connected.
                     - Used to tell the server a Teller machine has connected.
LOGIN_REQ
USER_INFO_REQ
                     - Request server to verify login credentials.
                     - Requests server for specific Users info.
                     - Requests server for logs on a specified user's
LOGS REQ
                        associated accounts.
                     - Requests server for info on specific account. Also used
ACCOUNT_INFO
                        to notify client or teller machine of similar data.
                - Requests server log info.
LOG INFO
                     - Notifies client or teller of a completed loop.
DONE
                     - Notifies client or teller of a successful action.
SUCCESS
FAIL
                     - Notifies client or teller of a failed action.
DEPOSIT
                     - Requests server to deposit n amount of money into x
                         account.
                     - Requests server to withdraw n amount of money from x
WITHDRAW
                        Account.

    Requests server to add a user to x account.
    Requests server to remove a user from x account.
    Requests server to Transfer funds from account A

ADD USER
REMOVE_USER
TRANSFER
                      - Requests server to Transfer funds from account A to
                        account B.
STATUS_CHANGE - Requests Server for a status change on x account.

MAKE_ACCOUNT - Requests server to add an account to an existing
                     - Requests server to add an account to an existing user.
                       - Requests server to
LOGOUT
```

Message Object:

The message object has two types of constructors. One for passing data when money is involved and the other for passing non-fund related messages.

```
Message(MessageType type, String data, float funds)
Message(MessageType type, String data)
```

Connecting to Server:

1) When connecting to the server either a client or teller needs to connect. Any other type of connection will be automatically disconnected immediately.

```
Message(MessageType.CONNECT_CLIENT, null);
Message(MessageType.CONNECT_TELLER, null);
```

The funds and data fields aren't necessary.

Returning message type will be either SUCCESS or terminated connection.

2) After successful connection a message needs to be sent to the server to verify a user login.

```
Message(MessageType.LOGIN, data);
String data = <username> + "\n" + <password>;
```

Returning message type will be either SUCCESS or FAIL establishing a completed connection to the server.

Requests to Server:

Message Types and Formatting:

LOGOUT

To Server:

```
Message(MessageType.LOGOUT, null);
```

• From Server:

```
Message(MessageType.LOGOUT,"User Logged Out")
```

DEPOSIT

• To Server:

```
Message(MessageType.DEPOSIT,account,amount);
String account = <account name>;
float amount = amount of funds to be deposited
```

From Server:

WITHDRAW

• To Server:

```
Message(MessageType.DEPOSIT,account,amount);
String account = <account name>;
float amount = amount of funds to be withdraw.
```

From Server:

ADD_USER

• To Server:

```
Message(MessageType.ADD_USER, data) // Adds user to specified account.
String data = [account] + "\n" + [user];
```

From Server:

REMOVE USER

To Server:

```
Message(MessageType.REMOVE_USER, data) // Removes user to specified account.
String data = [account] + "\n" + [user];
```

• From Server:

TRANSFER

• To Server:

• From Server:

USER_INFO_REQ

To Server:

• From Server:

LOGS_REQ

To Server:

```
Message(MessageType.LOG_INFO, account);
String account = account name.
```

• From Server:

ACCOUNT_INFO

• To Server:

```
Message(MessageType.ACCOUNT_INFO, user)
String user = name of the current user logged in.
```

• From Server: