# Table: Clients

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| **Schema:** | SystemSchematicBuilder |
| **Responsible:** | Kurt A Vedros |

Table holds all information on the Clients as needed by the program.

Client – an individual user of the program as saved by user id and name.

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| **Column Name** | **Data type** | **Description** |
| ClientID | Int | Primary Key to Clients Table |
| ClientName | string | Name given by the user to identify them as. |
| ClientMutex | bit | Flag for the client to indicate if the clients local program files is up to date with the current information in the database. |

**Procedures (Database functions)**

* sprocGetClients
  + Returns a list of Client objects that are currently stored in the database.
* sprocGetClient
  + Returns a Client object that is currently stored in the database that has the given Client ID number.
* sproc\_ClientAdd
  + Stores the given Client object into the database and returns its assigned Client ID number.
* sproc\_ClientUpdate
  + Changes information of the Clients Table in the database with the given primary key to the given Client class object.
* sproc\_ClientRemove
  + Removes the Client from the Clients Table with the given Client ID number.

**Additional Procedures (Database functions)**

* sproc\_ClientMutexUpdate
  + Changes the ClientMutex flag in the database with the given mutex and the given Client ID number.
* sproc\_GetAllClientsBySystem
  + Returns all Client ID numbers of the given System ID number.
* sprocGetClientMutex
  + Returns the client mutex with the given Client ID number.

**DAL (Software Functions)**

* ClientsGetAll()
  + Returns a list of Client objects that are currently stored in the database.
* ClientGet(int ID)
  + Returns a Client object that is currently stored in the database that has the given Client ID number.
* ClientAdd(Client Client)
  + Stores the given Client object into the database and returns its assigned Client ID number. Returns -1 if error occurred, otherwise returns null.
* ClientUpdate(Client Client)
  + Changes a Client object that is currently stored in the database with the given Client’s Client.ID with the Client’s information.
* ClientRemove(int ID)
  + Removes the Client object stored in the database with the given Client ID number. Returns -1 if error occurred, otherwise returns null.

**Additional DAL (Software function)**

* ClientMutexUpdate(int ClientID, bool ClientMutex)
  + Changes the ClientMutex flag in the database with the given mutex and the given Client ID number.
* GetClientByName(string Name)
  + Returns all Client ID numbers of the given System ID number.
* GetClientMutexByID
  + Returns the client mutex with the given Client ID number.