State Chart for Client Control Class

● —— Users starts application ——→ **Display User Interface**

Display User Interface —— Display Shown ——→ **User Inserts Query**

User Inserts Query —— Query Inserted ——→ **Parse Query**

Parse Query —— Invalid Query Entered ——→ Display User Interface

Parse Query —— Query Accepted ——→ **Encrypt User Query**

Encrypt User Query —— Unable to encrypt ——→ **Cancel Query Search**

Encrypt User Query —— Query Encrypted ——→ **Send Query to Server Control**

Send Query to Server Control —— Encrypted Results from Server Returned ——→ **Decrypt Results**

Decrypt Results —— Unable to decrypt ——→ Cancel Query Search

Decrypt Results —— Results successfully decrypted ——→ **Display Results**

Cancel Query Search —— Error message displayed ——→ **Display Error message stating reason for cancellation** ——→ Display User Interface

Additional query entered —— Query Inserted ——→ Parse Query

Display Results —— Results Displayed ——→ Additional query entered

Display Results ——→ ●