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 * /
 * File: FTPCommandInterpreter.h
 * Author: Reza Naeemi
 * Created on May 30, 2016, 11:32 PM
 * /
#ifndef FTP COMMAND INTERPRETER H
#define FTP COMMAND INTERPRETER H
#include <map>
               // <map> is needed to define map
#include <vector>
                      // <vector> needed to define vector
#include "FTPNetAccess.h"
#include "FTPCommandInterpreter.h"
class FTPCommandInterpreter {
    public:
        FTPCommandInterpreter();
        FTPCommandInterpreter(const FTPCommandInterpreter& orig);
        virtual ~FTPCommandInterpreter();
       // Open a connection automatically
       bool Open(const char* hostName, int hostPortNumber);
        // Open a connection manually
        bool Open(vector<string> instruction);
        bool isClientRunning() const;
```

```
// (cd) Change Directory Command
   bool Cd(vector<string> instruction);
    // (pwd) Dislay the Present Working Directory
    bool Pwd();
    // (syst) Diplay the type of server
   bool SysT();
    // (get) Get (download) a file from the FTP Server
    bool Get(vector<string> instruction);
    // (put) Put (upload) a file to the FTP Server
   bool Put(vector<string> instruction);
    // (del) Delete a remote file from the FTP Server
    bool Del(vector<string> instruction);
    // (ls) List the remote directory file list and details
    bool Ls();
    // (close) Close the connection to the FTP Server
    bool Close();
    // (quit) Close the connection to the FTP Server and quit the client software.
    bool Ouit();
private:
     FTPNetAccess ftpNetAccess;
     FTPCommandInterpreter ftpCommandInterpreter;
    // Supported command types
    enum commandType
```

```
UNDEFINED, // Must be the first in the list to define an invalid command
    OPEN,
    CD,
    PWD,
    SYST,
    LS,
    GET,
    PUT,
    DEL,
    CLOSE,
    OUIT
};
// Use map to associate the string commands to the enum values
map<string, commandType> mappedCommandTypes;
// Set command mapping values;
void initialize() const;
// Command parser
bool parse(vector<string> instruction);
// Private Helper functions for Public functions.
bool login();
bool open(vector<string> instruction);
bool open(const char *hostName, int hostPort);
bool cd(vector<string> instruction);
bool pwd();
bool syst();
bool get(vector<string> instruction);
bool put(vector<string> instruction);
bool del(vector<string> instruction);
bool ls();
bool close();
bool quit();
```

```
};
#endif /* FTPCOMMANDINTERPRETER_H */
```