

Card 관리

CCardManager
+ CCardManager()
+ bool ChangeUserCardAmount(const char* textName, const int& curCardAmount, const int& userPKNum, const int& cardNum)

RoomChatServer v1.01

커밋된 **Git** 이름 : 로그인시 유저가 가지고있는 카드 불러오기까지
2270fe352061259fca6b11568009fc96154fb327

typedef
list<shared_ptr<CChannel>> ChannelList
ChannelList::iterator ChannelListIt
list<shared_ptr<CLink>> LinkList
LinkList::iterator LinkListIt
list<shared_ptr<CRoom>> RoomList
RoomList::iterator RoomListIt
list<shared_ptr<MyCardInfo>> MyCardList
MyCardList::iterator MyCardListIt

ConstEnumInfo.h
const int Port = 9000;
const int BufSize = 1024;
const int EchoBufSize = 4096;
const int NameSize = 30;
const int WPNSize = 256;
const int IniSize = 4;
const int MakeThreadNum = 3;
const int EnterChannelNum = 1; // 처음 접속 채널
const int EnterRoomPeopleLimit = 2;
const int MaxChannelNum = 5;
const int ChannelAmount = 5;
const int NoneRoom = -1;
const int CardNumCols = 0; // 역렬파일 카드 번호 열번호
const int CardNameCols = 1;
const int CardProbCols = 2;
const int CardStatCols = 3;
const int CardCost = 20;
const int StartMoney = 100; // 시작 마니
const int ErrorCardNum = 999;
const string StartCardInventory("0100020003000400050006000700080009");
const string NameMemberInfoTxt = "MemberInfo.txt";
const string CardEmpty = "00";
const int CardNameBuf = 64;
const string MakeNextJoinNumberTxt

- 클래스(객체지향)
- 클래스(한개)
- private 멤버변수 포함수
- 생성자
- public 멤버함수
- public 멤버함수
- 구조체
- 주석처리

로그인/회원가입

CLobby
- MessageStruct MS
- int Login(SOCKET& clientSocket, CActionNetWork& actionNetWork, vector<string>& tempUserInfo)
- int JoinMember(SOCKET& clientSocket, CActionNetWork& actionNetWork, vector<string>& tempUserInfo)
- int ChooseMenu(char* message, SOCKET& clientSocket, CActionNetWork& actionNetWork)
- int SendMenuInfo(SOCKET& clientSocket, CActionNetWork& actionNetWork)
- int NextUserNum
+ CLobby(int NextUserNum)
+ CLobby(const CLobby&) = delete
+ CLobby& operator=(const CLobby&) = delete
+ MessageStruct& getMessageStruct()
+ int ActionServiceLobby(SOCKET& clientSocket, CActionNetWork& actionNetWork, vector<string>& tempUserInfo)

연결 담당

CReadyNetWork
- SOCKET* hServSock
+ CReadyNetWork()
+ CReadyNetWork(const CReadyNetWork&) = delete
+ CReadyNetWork& operator=(const CReadyNetWork&) = delete
+ void Accept(SOCKET& hClientSock)

주고 받기 담당

CActionNetWork
- MessageStruct sendClientMessage
+ CActionNetWork()
+ CActionNetWork(const CActionNetWork&) = delete
+ CActionNetWork& operator=(const CActionNetWork&) = delete
+ int sendn(CLink& clientInfo, CRoomManager& roomManager, CChannelManager& channelManager, int flags = 0)
+ int sendn(SOCKET& socket, MessageStruct& MS, int flags = 0)
+ int recvn(shared_ptr<CLink> clientInfo, CCommandController& commandController, int flags = 0)
+ int recvn(SOCKET& socket, MessageStruct& MS, int flags = 0)
+ int sendMyName(SOCKET& clientSocket, CLink& clientInfo, int flags = 0)
+ int askClient(SOCKET& clientSocket, MessageStruct& MS, char* question)
+ int notificationClient(SOCKET& clientSocket, MessageStruct& MS, char* notification)

카드 뽑기 담당

CGaChar
- CGaChar()
+ CGaChar(const CGaChar& copy) = delete
+ CGaChar& operator=(const CGaChar& copy) = delete
+ int randNumber(int max = 100)
+ Card* gaCharResult(int range)

Client 채널 입/출 담당

CChannelHandler
+ CChannelHandler()
+ CChannelHandler(const CChannelHandler&) = delete
+ CChannelHandler& operator=(const CChannelHandler&) = delete
+ bool moveNextChannel(shared_ptr<CLink> shared_clientInfo, CChannelManager& channelManager, int targetChannelNo)
+ bool exitChannel(CLink& clientInfo, CChannelManager& channelManager)

Client 받은 명령 처리

CCommandController
- CRoomHandler RoomHandler;
- CChannelHandler ChannelHandler;
- CCardManager mCardManager
- CGaChar mGachaHandler
- int cardSelect(shared_ptr<CLink> shared_clientInfo, MessageStruct* sendClientMessage)
- int readyCommand(shared_ptr<CLink> shared_clientInfo, CLink* clientInfo, int& channelNum)
- int enterRoom(shared_ptr<CLink> shared_clientInfo)
- int changeChannel(shared_ptr<CLink> shared_clientInfo)
- int makeRoom(char* command, shared_ptr<CLink> shared_clientInfo)
- int outRoom(shared_ptr<CLink> shared_clientInfo)
- int mergeRoom(shared_ptr<CLink> shared_clientInfo)
- CRoomManager RoomManager
- CChannelManager ChannelManager
+ CCommandController()
+ CCommandController(const CCommandController&) = delete
+ CCommandController& operator=(const CCommandController&) = delete
+ int commandHandling(shared_ptr<CLink> shared_clientInfo, char* command, MessageStruct* sendClientMessage)
+ CChannelHandler& getChannelHandler()
+ CChannelManager& getChannelManager()
+ CRoomManager& getRoomManager()
+ bool deleteClientSocket(CLink& clientInfo)

Client Room 만들기 입/출 담당

CRoomHandler
+ CRoomHandler()
+ CRoomHandler(const CRoomHandler&) = delete
+ CRoomHandler& operator=(const CRoomHandler&) = delete
+ bool exitRoom(CLink* clientInfo, CRoomManager* roomManager)
+ bool makeRoom(shared_ptr<CLink> shared_clientInfo, CRoomManager* roomManager, char* roomName)
+ bool enterRoom(shared_ptr<CLink> shared_clientInfo, CRoomManager* roomManager, int targetRoomNo)
+ char* returnRoomName(char* message)

Room 관리

CRoomManager
- RoomList Rooms
- MUTEX RAIL_RoomManagerMUTEX
+ CRoomManager()
+ CRoomManager(const CRoomManager&) = delete
+ CRoomManager& operator=(const CRoomManager&) = delete
+ void pushRoom(shared_ptr<CRoom> shared_newRoom)
+ RoomListIt eraseRoom(RoomListIt delRoom)
+ RoomListIt getMyRoomlier(int channelNum, int roomNum)
+ RoomListIt getRoomBegin()
+ RoomListIt getRoomEnd()
+ int getEmptyRoomNum()
+ bool isEmptyRoom()

Client 관리

CRoom (객체지향 여러개)
- LinkList ClientInfos
- char* RoomName
- int ChannelNum
- int RoomNum
- int AmountPeople
- MUTEX RAIL_RoomMUTEX
- void increasePeople()
- void decreasePeople()
+ CRoom(int roomNum, int channelNum, char* roomName)
+ CRoom(const CRoom&) = delete
+ CRoom& operator=(const CRoom&) = delete
+ void pushClient(shared_ptr<CLink> shared_client)
+ LinkListIt eraseClient(LinkListIt myInfoListIt)
+ int getRoomNum()
+ int getChannelNum()
+ char* getRoomName()
+ LinkListIt getMyInfoBegin()
+ LinkListIt getMyInfoEnd()
+ int getAmountPeople()
+ bool mergeRoom(CRoom* targetRoom)

Client 관리

CChannel (객체지향 여러개)
- LinkList ClientInfos
- int ChannelNum
- MUTEX RAIL_ChannelMUTEX
+ CChannel(int channelNum)
+ CChannel(const CChannel&) = delete
+ CChannel& operator=(const CChannel&) = delete
+ int getChannelNum()
+ LinkListIt getMyInfoBegin()
+ LinkListIt getMyInfoEnd()
+ void pushClient(shared_ptr<CLink> shared_client)
+ LinkListIt eraseClient(LinkListIt myInfoListIt)

채널 관리

CChannelManager
- ChannelList Channels
- MUTEX RAIL_ChannelManagerMUTEX
- void pushChannel(shared_ptr<CChannel> shared_newChannel)
+ CChannelManager()
+ CChannelManager& operator=(const CChannelManager&) = delete
+ CChannelManager(const CChannelManager&) = delete
+ ChannelListIt getChannelBegin()
+ ChannelListIt getChannelEnd()
+ CChannel* getMyChannel(int ChannelNum)

Client 정보 보관 담당

CLink (객체지향 여러개)
- char* Name
- int MyRoomNum
- int MyChannelNum
- SOCKET& ClientSocket
- MessageStruct MS
- int MyMoney
- MyCardList mMyCards
- MUTEX RAIL_LinkMUTEX
- const int MyPKNumber
+ CLink(SOCKET& clientSocket, string strPKNumber, char* name)
+ CLink(const CLink&) = delete
+ CLink& operator=(const CLink&) = delete
+ MessageStruct& getMessageStruct()
+ SOCKET& getClientSocket()
+ int getMyRoomNum()
+ int getMyChannelNum()
+ char* getMyName()
+ void setDefaultName()
+ void setMyRoomNum(int myRoomNum)
+ void setMyChannelNum(int myChannelNum)
+ bool isMoneyOKGaChar()
+ void pushCard(Card* card)
+ void changeName(const char* name, int start)
+ MyCardListIt GetMyCardBegin()
+ MyCardListIt GetMyCardEnd()
+ bool isEmptyCard()
+ void EmptyCard()
+ bool isHaveCard(int cardNum, MyCardListIt& cardIter)
+ void initCard(Card* card, int amount = 1, float exp = 0.0f)
+ const int getCardNumber()
+ const int GetMyPKNumber(const

정적 클래스 객체

static
+ CReadHandler* ReadHandlerStatic
+ CWriteHandler* WriteHandlerStatic
+ CCard* CardStatic

txt읽기 담당

CReadHandler
- CReadHandler()
+ bool ReadUserCardLine(const string& textFileName, const int& userPKNum, vector<string>& result)
+ const string GetLastLine(const string& textFileName)
+ CReadHandler(const CReadHandler&) = delete
+ CReadHandler& operator=(const CReadHandler&) = delete
+ static CReadHandler* getInstance()
+ bool Search(const char* textFileName, vector<string>& tempUserInfo, int count, ...)
+ vector<string> Parse(const string& str, const char& ch)
+ bool ReadUserCard(CLink* client, const string textFileName)
+ bool ReadUserCard(CLink* client, const string& textFileName)
+ const string GetNextUserNum(const string& textFileName)

txt쓰기 담당

CWriteHandler
- CWriteHandler()
+ CWriteHandler(const CWriteHandler&) = delete
+ CWriteHandler& operator=(const CWriteHandler&) = delete
+ static CWriteHandler* getInstance()
+ bool write(const char* textFileName, int count, ...)
+ void WriteCard(const char* textFileName, int offset, int cardNum, int amount)
+ void WriteNextUserNum(const string& textFileName, const int& nextUserNum)

Card 정보 담음

CCard
- CardList mCards
- CCard()
+ CCard(const CCard& copy) = delete
+ CCard& operator=(const CCard& copy) = delete
+ static CCard* getInstance()
+ void pushCard(shared_ptr<Card> card)
+ CardListIt getCardListBegin()
+ CardListIt getCardListEnd()

Error 처리 담당

CErrorHandler
- static EnumErrorCode CriticalError(EnumErrorCode code)
- static EnumErrorCode TakeError(EnumErrorCode code)
- CErrorHandler()
- CErrorHandler(const CErrorHandler&) = delete
- CErrorHandler& operator=(const CErrorHandler&) = delete
+ static EnumErrorCode ErrorHandler(EnumErrorCode code)

Util.h

함수 이름
+ static void InitToAlphabet(const int num, char* chResult)
+ static const string InitToString(const int& targetInt)
+ static const int AddCipher(const int Number)

구조체

카드 정보

struct Card
+ int cardNum
+ char* name
+ int prob
+ int stat
+ Card(int num, char* cardName, int prob, int stat)
+ Card(const Card& copy) = delete
+ Card& operator=(const Card& copy) = delete

메세지 정보

struct MessageStruct
+ char* message
+ size_t sendRecvSize
+ MessageStruct() : message(new char[BufSize])
+ MessageStruct& operator=(const MessageStruct& copyMS)
+ MessageStruct(const MessageStruct& copyMS) : sendRecvSize(copyMS.sendRecvSize)

