Server (typed)

Monday, March 2, 2020

Δ implements serializable

ChildServer implements Runnable (-) AbstractPlayer player (-) ParentServer parent (-) Connection playerConnection (-) String turnMessage = "" (-) boolean firstCall = true (-) boolean firstTurnWithMoves = true (-) boolean connectionFailed = false (-) missedTurns = 0 (-) long startTime (-) long maxTime (-) Board clientBoard (+) ChildServer(AbstractPlayer player, ParentServer parent) (+) ChildServer(AbstractPlayer player, Connection playerConnection, ParentServer parent) (+) AbstractPlayer getPlayer() (+) AbstractPlayer setPlayer() (+) ParentServer getParentServer() (+) void setParentServer(ParentServer parent) (+) Connection getPlayerConnection() (+) void setPlayerConnection(Connection playerConnection) (+) void setTurnMessage(String turnMessage) (+) boolean getFirstCall() (+) firstTurnCall() throws IOException, SocketException, ClassNotFoundException (+) boolean performTurn() (+) void run()

ServerProgram

(+) static void main(String[] args)

BoardGenerator

(-) Board board

- (+) Board getBoard()
- (+) void createBoard()

- LoginServer extends Thread
- (-) MasterServer masterServer (-) Connection playerConnection
- -) String user
- -) int activeGameID
- -) static final Lock loginLock = new ReentrantLock()
- (-) static final Lock registerLock = new ReentrantLock()
- (+) LoginServer(MasterServer masterServer, Connection playerConnection)
- (+) Connection getConnection()
- (+) void setUser(String user)
- (+) String getUser()
- (+) int getActiveGameID()
- (+) void loginProcess() throws IOException, ClassNotFoundException (+) Sring buildGamesInfo(List<ParentServer> games)
- (+) void sendJoinMessages() throws IOException
- (+) void selectGame() throws IOException, ClassNotFoundException
- (+) void run()

MasterServer

- (-) ServerSocket serverSocket = null
- -) Map<String, Pair<String, String>> loginMap
- (-) Map<String, LoginServer> activePlayers
- (-) Map<Integer, ParentServer> parentServers
- (-) int nextGameID = 1
- (-) String loginFile
- (+) MasterServer(String loginFile) throws IOException, ClassNotFoundException
- (+) MasterServer(String loginFile, int port) throws IOException, ClassNotFoundException
- (+) void setSocket(int port) throws IOException
- (+) ServerSocket getServerSocket()
- (+) Map<String, Pair<String, String>> getLoginMap()
- (+) Map<Integer, ParentServer> getParentServers() (+) ParentServer getParentServer(int gameID)
- (+) synchronized boolean addLogin(String user, Pair<String, String> hashPasswordAndSalt)
- (+) String getSalt(String use)
- (+) boolean addPlayer(LoginServer ls)
 (+) void removePlayer(String username, int gameID)
- (+) void removePlayer(LoginServer Is)
- (+) synchronized int createNewParentServer(String user, Connection playerConnection) throws **IOException**
- (+) void addParentServer(ParentServer ps)
- (+) synchronized void saveMap()
- (+) boolean checkLogin(String user, String hashPassword) (+) List<ParentServer> getGamesIn(String user)
- (+) List<ParentServer> getOpenGames(String user)
- (+) void waitingForConnections() throws IOException
- (+) void run() throws IOException

