"Client → Server" Protocol

Client

```
QuizClient
-PORT: int
-connected: boolean
-loginReply: LoginReply
-quiz: Quiz
-currentQuizID: long
-currentQuestion: Question
-loginIsSuccessful: boolean
-responseNumber: int = -1
-allScores: ArrayList<Score>
-username: String
-passwordHash: String
-questionReceivedTime: long
-isStudentUser: boolean
-loginIsSuccessful: boolean
+main()
+run()
+getLoginReply(i:int): LoginReply
+loginIsSuccessful(): boolean
+isStudent(): boolean
+sendObject(object:Object): boolean
+changeContentPane(int:i)
+getResponseNumber(): int
+setResponseNumber(int:n)
+getAnswer(int:i): String
+getQuizIDs(): Long[]
+setUsername(String:username)
+getUsername(): String
+setPassword(String:password)
+setCurrentQuizID(currentQuizID:long)
+getAllScores(): ArrayList<Score>
+getCurrentQuestion(): Question
```

+isConnected(): boolean

+waitForUserResponse(): AnswerResponse

+sendObject(object:Object): boolean

+studentSession(object:Object)

+adminSession(object:Object)

+getQuiz(): Quiz

+requestLogin()

+adminStart()

LoginRequest

-username: String
-passwordHash: int

+setUsername(username:String)
+getUsername(response:int): String
+getPasswordHash(responseTime:int): int

AnswerResponse

-response: int -responseTime: long

+getResponse(): int
+setResponce(response:int)

+getResponseTime(): long
+setResponseTime(responseTime:int)

QuizRequest

-quizID: long

+getQuizID(): long

"Server → Client" Protocol

LoginReply

-loginSuccessful: boolean
-isStudent: boolean

-name: String
+quizzes: Quiz[]

+isSuccessful(): boolean
+isStudent(): boolean
+getQuizzes(): Quiz[]
+setQuizzes(quizzes:Quiz[])

Question

-question: String
-answers: String[]
-correctAnserPos: int
-questionID: int
-timeLimit: int

+setQuestion(question:String)
+setAnswer(i:int,answer:String)
+getQuestion(): Question
+getAnswer(i:int): String
+getAnswers(): String[]
+toString(): String
+equals(o:Object): boolean
+getCorrectAnserPos(): int
+getTimeLimit(): int

Score

-mark: int

-username: String

+getMark(): int
+setMark(int:mark)

+getUsername(): String

+setUsername(username:String)

Quiz

-quizID: long

-questions: Question[]

-name: String

+setQuestions(questions:Quesion)
+getQuestions(): Quesion[]
+getQuestion(i:int): Question
+getName(): String

StartQuiz

+setTimeLimit(int:timeLimit)

-quizStartTime: long
+getQuizStartTime(): long

DisplayQuestion

-number: int
+getNumber(): int

