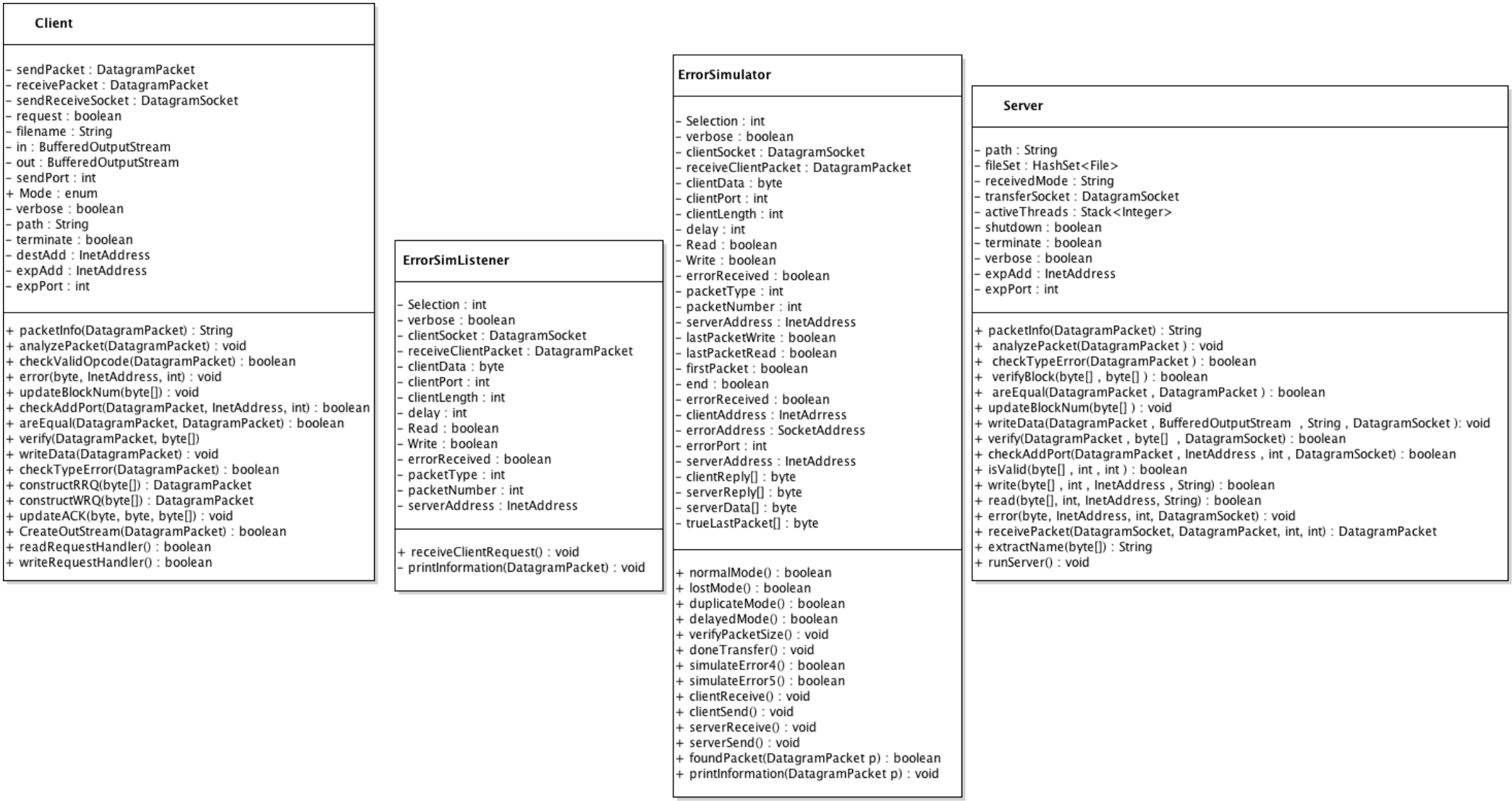
Client
- sendPacket : DatagramPacket
- receivePacket : DatagramPacket
- sendReceiveSocket : DatagramSocket
- request : boolean
- filename : String
- in : BufferedOutputStream
- out : BufferedOutputStream
- sendPort : int
+ Mode : enum
- verbose : boolean
- path : String
- terminate : boolean
- destAdd : InetAddress
- expAdd : InetAddress
- expPort : int
+ packetInfo(DatagramPacket) : String
+ analyzePacket(DatagramPacket) : void
+ checkValidOpcode(DatagramPacket) : boolean
+ error(byte, InetAddress, int) : void
+ updateBlockNum(byte[]) : void
+ checkAddPort(DatagramPacket, InetAddress, int) : boolean
+ areEqual(DatagramPacket, DatagramPacket) : boolean
+ verify(DatagramPacket, byte[])
+ writeData(DatagramPacket) : void
+ checkTypeError(DatagramPacket) : boolean
+ constructRRQ(byte[]) : DatagramPacket
+ constructWRQ(byte[]) : DatagramPacket
+ updateACK(byte, byte, byte[]) : void
+ CreateOutStream(DatagramPacket) : boolean
+ readRequestHandler() : boolean
+ writeRequestHandler() : boolean
ErrorSimListener
- Selection : int
- verbose : boolean
- clientSocket : DatagramSocket
- receiveClientPacket : DatagramPacket
- clientData : byte
- clientPort : int
- clientLength : int
- delay : int
- Read : boolean
- Write : boolean
- errorReceived : boolean
- packetType : int
- packetNumber : int
- serverAddress : InetAddress
+ receiveClientRequest() : void
- printInformation(DatagramPacket) : void
ErrorSimulator
- Selection : int
- verbose : boolean
- clientSocket : DatagramSocket
- receiveClientPacket : DatagramPacket
- clientData : byte
- clientPort : int
- clientLength : int
- delay : int
- Read : boolean
- Write : boolean
- errorReceived : boolean
- packetType : int
- packetNumber : int
- serverAddress : InetAddress
- lastPacketWrite : boolean
- lastPacketRead : boolean
- firstPacket : boolean
- end : boolean
- errorReceived : boolean
- clientAddress : InetAdrress
- errorAddress : SocketAddress
- errorPort : int
- serverAddress : InetAddress
- clientReply[] : byte
- serverReply[] : byte
- serverData[] : byte
- trueLastPacket[] : byte
+ normalMode() : boolean
+ lostMode() : boolean
+ duplicateMode() : boolean
+ delayedMode() : boolean
+ verifyPacketSize() : void
+ doneTransfer() : void
+ simulateError4() : boolean
+ simulateError5() : boolean
+ clientReceive() : void
+ clientSend() : void
+ serverReceive() : void
+ serverSend() : void
+ foundPacket(DatagramPacket p) : boolean
+ printInformation(DatagramPacket p) : void
Server
- path : String
- fileSet : HashSet<File>
- receivedMode : String
- transferSocket : DatagramSocket
- activeThreads : Stack<Integer>
- shutdown : boolean
- terminate : boolean
- verbose : boolean
- expAdd : InetAddress
- expPort : int
+ packetInfo(DatagramPacket) : String
+ analyzePacket(DatagramPacket ) : void
+ checkTypeError(DatagramPacket ) : boolean
+ verifyBlock(byte[] , byte[] ) : boolean
+ areEqual(DatagramPacket , DatagramPacket ) : boolean
+ updateBlockNum(byte[] ) : void
+ writeData(DatagramPacket , BufferedOutputStream , String , DatagramSocket ): void
+ verify(DatagramPacket , byte[] , DatagramSocket) : boolean
+ checkAddPort(DatagramPacket , InetAddress , int , DatagramSocket) : boolean
+ isValid(byte[] , int , int ) : boolean
+ write(byte[] , int , InetAddress , String) : boolean
+ read(byte[], int, InetAddress, String) : boolean
+ error(byte, InetAddress, int, DatagramSocket) : void
+ receivePacket(DatagramSocket, DatagramPacket, int, int) : DatagramPacket
+ extractName(byte[]) : String
+ runServer() : void