SYSC3303A Assignment3
UML Class Diagram

Client

- MAX_MESSAGE_LEN: static final int
- packetOut: DatagramPacket
- packetIn: DatagramPacket
- networkSocket: DatagramSocket

- formEmptyPacket(): void
- formPacket(RequestType, String, String): void
- rpc_send(): void
+ printPacketInfo(DatagramPacket): static void
+ run(): void
+ main(String[] args): void

<<enum>>
RequestType

READ
WRITE
INVALID

DatagramSocket

DatagramPacket

Use

IntermediateHost

- MAX_MESSAGE_LEN: static final int
- receivePacket: DatagramPacket
- replyPacket: DatagramPacket
- receiveSocket: DatagramSocket
- replySocket: DatagramSocket
- replyPort: int
- receivePort: int
- reqBox: List<byte[]>
- ackBox: List<byte[]>
- clientPort: int

- confirmPacket(): byte[]
- reply(): void
- reply(byte[]): void
- receiveAndReply(): void
+ run(): void
+ main(String[] args): void

Use

Use

Server

- MAX_MESSAGE_LEN: static final int
- packetOut: DatagramPacket
- packetIn: DatagramPacket
- networkSocket: DatagramSocket

- verifyPacket(DatagramPacket): RequestType
- formPacket(RequestType): void
- formEmptyPacket(): void
- rpc_send(): void
+ run(): void
+ main(String[] args): void