**SETUP INSTRUCTIONS**

**IDE Used:** Eclipse

**Setup Instruction**

Please import the following Java source files to a new project in Eclipse

***Java Source Files:***

**'package sysc3303.project':**

TftpClient.java

TftpServer.java

TftpErrorSimulator.java

TftpRequestListener.java

TftpServerFileTransfer.java

**'package sysc3303.project.common':**

Log.java

TftpAbortExeption.java

TftpConnection.java

TftpAckPacket.java

TftpDataPacket.java

TftpErrorPacket.java

TftpPacket.java

TftpRequestPacket.java

**Server**

Run to start the server. Start server first.

Commands: help, stop, pwd, chdir, defaultdir

**Error Simulator**

Run to start error simulator. Start error simulator before client.

At the prompt " connect to ", enter the ‘ip address’ of the server if using a different computer for the server or the command 'localhost' to connect to the server on the same computer. To change the connection, stop and run the error simulator again.

To simulate errors, choose the error mode to simulate an error before running the client(default mode is normal mode)

Commands: help, stop, mode <<error mode number>>

**Client**

Run after server and error simulator are started.

Commands: read <<filename>>, write <<filename>>, help, close, stop,

get <<filename>>, send<<filename>>, connect <<ip or hostname>>,

connect <<ip|hostname:portnumber>>, show connection

**Diagrams:**

* Timing Diagram - AckPacketError.jpeg
* Timing Diagram - Normal mode.jpeg
* Timing Diagram - PacketSizeError.jpeg
* Timing Diagram - Invalid TID.jpeg
* Timing Diagram - OpcodeError.jpeg
* Timing Diagram - RequestPacketError.jpeg
* Delayed\_Ack\_Packet\_Diagram.JPG
* Duplicate\_Ack\_Packet\_Diagram.JPG
* Lost\_Ack\_Packet\_Diagram.JPG
* Delayed\_Data\_Packet\_Diagram.JPG
* Duplicate\_Data\_Packet\_Diagram.JPG
* Lost\_Data\_Packet\_Diagram.JPG
* UCM Diagrams.pdf
* UML-ClassDiagram.jpeg
* diagram for error1.JPG
* diagram for error2.JPG
* diagram for Error3.JPG
* diagram Error6.JPG

**Testing Files**

Files for the client are stored in "client\_files",

* bat.txt
* bond.txt
* clientimage.jpeg

Files for the server are stored in "server\_files"

* soccer.txt
* cgpa.jpg

**Detailed Instruction for test case for Error code 03 and 02**

Test case for Error code 03 (diskfull)

Using chdir command in the server, change to a directory which is full or has space less than 1MB and send write request to server to write the file clientimage.jpeg(1MB).

The error for disk full will be returned.

Use command default dir to change to default directory

chdir(Change the directory to read/write files)

defaultdir(change to default directory)

Test case for Error code 02 (Access violation)

Try to read hidden files on server:

Create a hidden file by creating a file with a '.' in front.(example: .hide.txt)

Send read request to read the hidden file(Example: read .hidden.txt) or send write request to write the hidden file (Example: write .hide.txt)

Access violation error code will be returned

Try to write a file to a read only folder:

change the permissions on server\_files folder to read only

(Right click on server\_files folder--> properties --> Enable 'Read-only' under attributes )

Send a write request to write a file to the server