Sonarque Makeshift Report 2

4 🐞 Bugs		Reliability ⓔ
0 🔒 Vulnerabilities		Security Ⓐ
1 🛡 Security Hotspots ⓘ	⭕ **0.0%** Reviewed	Security Review ⓔ
2h Debt	**13** ⚙ Code Smells	Maintainability Ⓐ

⭕ **0.0%** Coverage on 73 Lines to cover	**-** Unit Tests		⭕ **0.0%** Duplications on 117 Lines	**0** Duplicated Blocks

---

```
        String clientSentence;
```

Remove this unused "clientSentence" local variable. Why is this an issue?   9 minutes ago ▾ L22 🔗
⚙ Code Smell ▾ 🟡 Minor ▾ ◯ Open ▾ Not assigned ▾ 5min effort Comment   🏷 unused ▾

```
        //Assign a port number, lets use the book's
        int portnum = 1200;
        //continuing with the book, lets make a welcome Socket in line with TCP
        ServerSocket  welcomeSocket = new ServerSocket(portnum);
```

Use try-with-resources or close this "ServerSocket" in a "finally" clause. Why is this an issue?   9 minutes ago ▾ L26 🔗
🐞 Bug ▾ ❗ Blocker ▾ ◯ Open ▾ Not assigned ▾ 5min effort Comment   🏷 cert, cwe, denial-of-service, leak ▾

```
        System.out.println("The Server is Open");
```

Replace this use of System.out or System.err by a logger. Why is this an issue?   9 minutes ago ▾ L27 🔗
⚙ Code Smell ▾ 🔺 Major ▾ ◯ Open ▾ Not assigned ▾ 10min effort Comment   🏷 bad-practice, cert, owasp-a3 ▾

```
        }
```

Add an end condition to this loop. Why is this an issue?   9 minutes ago ▾ L37 🔗
🐞 Bug ▾ ❗ Blocker ▾ ◯ Open ▾ Not assigned ▾ 15min effort Comment   🏷 cert ▾

```
    }
}
class HandleRequest extends Thread
{
    private Socket socket;
    //constructor for the thread
    public HandleRequest(Socket socket)
    {
        this.socket=socket;
    }
    //overiding method
    public void run()
```

Add the "@Override" annotation above this method signature Why is this an issue?   10 minutes ago ▾ L50 🔗
⊗ Code Smell ▾ 🔺 Major ▾ ◯ Open ▾ Not assigned ▾ 5min effort Comment   🏷 bad-practice ▾

```
    {
        String clientMessage; //request from the client
        String fName; //file we are attempting to access
        String filetype; //our MIME type of file
```

Remove this unused "filetype" local variable. Why is this an issue?   10 minutes ago ▾ L54 🔗
⊗ Code Smell ▾ ⊙ Minor ▾ ◯ Open ▾ Not assigned ▾ 5min effort Comment   🏷 unused ▾

```
            System.out.println(clientMessage);
```

Replace this use of System.out or System.err by a logger. Why is this an issue?   10 minutes ago ▾ L70 🔗
⊗ Code Smell ▾ 🔺 Major ▾ ◯ Open ▾ Not assigned ▾ 10min effort Comment   🏷 bad-practice, cert, owasp-a3 ▾

```
            //if our Strings first token is "GET" then do "GET" request
            if(tokenString.nextToken().equals("GET"))
            {
                //token[1] for file name
                fName = tokenString.nextToken();
                //we know it is what we're looking for if it starts with /
                if(fName.startsWith("/"))
                {

                    //we need to check the MIME type of the file, so we can send it in the header later
                    filetype=MIMEType(fName);
```

Remove this useless assignment to local variable "filetype". Why is this an issue?   10 minutes ago ▾ L81 🔗
⊗ Code Smell ▾ 🔺 Major ▾ ◯ Open ▾ Not assigned ▾ 15min effort Comment   🏷 cert, cwe, unused ▾

```
System.out.println("Error 301");
```

Replace this use of System.out or System.err by a logger. Why is this an issue?   11 minutes ago ▾ L98 🔗

⊗ Code Smell ▾ ⊘ Major ▾ ○ Open ▾ Not assigned ▾ 10min effort Comment   🏷 bad-practice, cert, owasp-a3 ▾

```
//this part isn't technically necessary, but it helps prevent an exception
fName="Error303.html";
//this is bad practice, but quick
File file2 = new File(fName);
file=file2;

//limit num stops a 404 from poping up
limitnum=301;
```

Remove this useless assignment to local variable "limitnum". Why is this an issue?   11 minutes ago ▾ L106 🔗

⊗ Code Smell ▾ ⊘ Major ▾ ○ Open ▾ Not assigned ▾ 15min effort Comment   🏷 cert, cwe, unused ▾

```
    }
    else
    {
        //if the file doesn't exist we have error 404 and we haven't had an error 301, this also starts our header for a
        //404 case
        if(!file.exists()&&(limitnum!=301))
```

Remove this expression which always evaluates to "true" Why is this an issue?   11 minutes ago ▾ L113 🔗

⊗ Code Smell ▾ ⊘ Major ▾ ○ Open ▾ Not assigned ▾ 10min effort Comment   🏷 cert, cwe, redundant, suspicious ▾

```
        FileInputStream iFS = new FileInputStream (fName);
```

Use try-with-resources or close this "FileInputStream" in a "finally" clause. Why is this an issue?   12 minutes ago ▾ L138 🔗

🐞 Bug ▾ ❗ Blocker ▾ ○ Open ▾ Not assigned ▾ 5min effort Comment   🏷 cert, cwe, denial-of-service, leak ▾

```
        //make a byte array of size fileSize, this is to transfer over our socket, its name is also a pun
        byte[] fileByteSize = new byte[fileSize];
        //read and put our new byte array into the input stream
        iFS.read(fileByteSize);
```

Check the return value of the "read" call to see how many bytes were read. Why is this an issue?   12 minutes ago ▾ L142 🔗

🐞 Bug ▾ ⊘ Minor ▾ ○ Open ▾ Not assigned ▾ 15min effort Comment   🏷 cert ▾

```
            System.out.println("Not implemented");
```

Replace this use of System.out or System.err by a logger. Why is this an issue?   13 minutes ago ▾ L158 🔗

⊗ Code Smell ▾ ⊘ Major ▾ ○ Open ▾ Not assigned ▾ 10min effort Comment   🏷 bad-practice, cert, owasp-a3 ▾

```
            }

            //close our socket
            socket.close();
        }
        catch(IOException e)
        {
            // anything bad that isn't out of scope shows up in the terminal as an exception
            e.printStackTrace();
        }
    }
    //parameter fName: String, name of our file
    public String MIMEType(String fName)
```

Rename this method name to match the regular expression '^[a-z][a-zA-Z0-9]*$'. Why is this an issue?   13 minutes ago ▾ L171 🔗

⊗ Code Smell ▾ ⊘ Minor ▾ ○ Open ▾ Not assigned ▾ 5min effort Comment   🏷 convention ▾

```
    {
```