Sonarqube Makeshift Report 1

File measures

Lines	133
Lines of Code	66
Comment Lines	32
Comments (%)	32.7%
Cognitive Complexity	7
Cyclomatic Complexity	10

8 Issues   **1h 30min** Debt

🐞 Bug	2
🔒 Vulnerability	0
☣ Code Smell	6
❗ Blocker	2
🔼 Critical	1
🔺 Major	4
🔽 Minor	1
ℹ Info	0
🏷 cert	4
🏷 cwe	3
🏷 error-handling	2
🏷 convention	1
🏷 denial-of-service	1

0.0% Coverage

Uncovered Lines	46
Lines to Cover	46

0.0% Duplications

Duplicated Blocks	0
Duplicated Lines	0

Close

Reliability

🐞 Bugs	2
Reliability Rating	Ⓔ
Reliability Remediation Effort	20min

Security Review

Security Hotspots	0
Security Review Rating	Ⓐ

Issues

Blocker Issues	2
Confirmed Issues	0
Critical Issues	1
False Positive Issues	0
Info Issues	0
Issues	8
Major Issues	4

Security

Security Rating	Ⓐ
Security Remediation Effort	0
🔒 Vulnerabilities	0

Complexity

Cognitive Complexity	7
Cyclomatic Complexity	10

Size

Classes	1
Comment Lines	32
Comments (%)	32.7%
Files	1
Functions	5
Generated Lines	0
Generated Lines of Code	0
Lines	133
Lines of Code	66
Statements	35

Duplications

Coverage

Coverage	0.0%
Line Coverage	0.0%
Lines to Cover	46
Skipped Unit Tests	0
Uncovered Lines	46
Unit Test Errors	0
Unit Test Failures	0
Unit Test Success (%)	100%

Maintainability

☣ Code Smells	6
Effort to Reach Maintainability Rating A	0
Maintainability Rating	Ⓐ
Technical Debt	1h 30min
Technical Debt Ratio	4.5%

```java
    public SimpleWebServer () throws Exception {
```

Define and throw a dedicated exception instead of using a generic one. Why is this an issue?
⊗ Code Smell ▾ 🔺 Major ▾ ○ Open ▾ Not assigned ▾ 20min effort Comment
2 hours ago ▾ L28 %
🏷 cert, cwe, error-handling ▾

```java
        dServerSocket = new ServerSocket (PORT);
```

Remove this assignment of "dServerSocket". Why is this an issue?
⊗ Code Smell ▾ 🔺 Major ▾ ○ Open ▾ Not assigned ▾ 20min effort Comment
2 hours ago ▾ L29 1 %
🏷 No tags ▾

```java
    }

    public void run() throws Exception {
        while (true) {
            /* wait for a connection from a client */
            Socket s = dServerSocket.accept();

            /* then process the client's request */
            processRequest(s);
        }
```

Add an end condition to this loop. Why is this an issue?
🐛 Bug ▾ ❗ Blocker ▾ ○ Open ▾ Not assigned ▾ 15min effort Comment
2 hours ago ▾ L39 %
🏷 cert ▾

```java
    }
```

```java
                    String pathname) throws Exception {
```

Define and throw a dedicated exception instead of using a generic one. Why is this an issue?
⊗ Code Smell ▾ 🔺 Major ▾ ○ Open ▾ Not assigned ▾ 20min effort Comment
2 hours ago ▾ L86 %
🏷 cert, cwe, error-handling ▾

```java
        FileReader fr=null;
        int c=-1;
        StringBuffer sb = new StringBuffer();
```

Replace the synchronized class "StringBuffer" by an unsynchronized one such as "StringBuilder". Why is this an issue?
⊗ Code Smell ▾ 🔺 Major ▾ ○ Open ▾ Not assigned ▾ 20min effort Comment
2 hours ago ▾ L89 %
🏷 performance ▾

```java
        /* remove the initial slash at the beginning
           of the pathname in the request */
        if (pathname.charAt(0)=='/')
            pathname=pathname.substring(1);

        /* if there was no filename specified by the
           client, serve the "index.html" file */
        if (pathname.equals(""))
            pathname="index.html";

        /* try to open file specified by pathname */
        try {
            fr = new FileReader (pathname);
```

Use try-with-resources or close this "FileReader" in a "finally" clause. Why is this an issue?
🐛 Bug ▾ ❗ Blocker ▾ ○ Open ▾ Not assigned ▾ 5min effort Comment
2 hours ago ▾ L103 %
🏷 cert, cwe, denial-of-service, leak ▾

```java
    public static void main (String argv[]) throws Exception {
```

Move the array designator from the variable to the type. Why is this an issue?
⊗ Code Smell ▾ 🟢 Minor ▾ ○ Open ▾ Not assigned ▾ 5min effort Comment
2 hours ago ▾ L126 %
🏷 convention ▾