

# VVS – Project

## Web-Server

### Static & Dynamic Analysis

#### 1. Static Analysis

##### 1.1. Tool

PMD is a source code analyzer. It finds common programming flaws like unused variables, empty catch blocks, unnecessary object creation, and so forth. It supports Java, JavaScript, Salesforce.com Apex and Visualforce, PLSQL, Apache Velocity, XML, XSL.

##### 1.2. Bugs

###### 1.2.1. Classes Overview

Class Name	Violations	Report Table
ServerMain	8	
WebServer	36	
ServerController	113	

###### 1.2.2. Test Classes Overview

Class Name	Violations	Report Table
ServerControllerTest	49	
WebServerTest	116	

### 1.2.3. Exceptions Overview

Class Name	Violations	Report Table
SocketClosedException	3	
WrongPortException	2	
WrongServerException	3	
WrongStatusException	2	
WrongWebsitePathException	2	

### 1.2.4. Report Tables

#### 1.2.4.1. ServerMain Report Table

##### ServerMain report

##### Problems found

#	File	Line	Problem
1	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\ServerMain.java	7	<a href="#">All classes, interfaces, enums and annotations must belong to a named package</a>
2	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\ServerMain.java	7	<a href="#">All methods are static. Consider using a utility class instead. Alternatively, you could add a private constructor or make the class abstract to silence this warning.</a>
3	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\ServerMain.java	7	<a href="#">Class comments are required</a>

E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\ServerMain.java	9	<a href="#">Public method and constructor comments are required</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\ServerMain.java	11	<a href="#">Avoid using final local variables, turn them into fields</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\ServerMain.java	12	<a href="#">Avoid using final local variables, turn them into fields</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\ServerMain.java	13	<a href="#">Avoid using final local variables, turn them into fields</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\ServerMain.java	33	<a href="#">Found 'DU'-anomaly for variable 'serverController' (lines '33'-'42').</a>

## 1.2.4.2. WebServer Report Table

### WebServer report

#### Problems found

#	File	Line	Problem
1	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\WebServer.java	10	<a href="#">Class comments are required</a>
2	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\WebServer.java	10	<a href="#">The class 'WebServer' is suspected to be a Data Class (WOC=23.077%, NOPA=1, NOAM=8, WMC=19)</a>
3	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\WebServer.java	12	<a href="#">Field comments are required</a>
4	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\WebServer.java	13	<a href="#">Field comments are required</a>
5	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\WebServer.java	14	<a href="#">Field comments are required</a>

E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 6 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	15	<a href="#">Field comments are required</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 7 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	16	<a href="#">Avoid using implementation types like 'ArrayList'; use the interface instead</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 8 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	16	<a href="#">Field comments are required</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 9 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	16	<a href="#">Found non-transient, non-static member. Please mark as transient or provide accessors.</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 10 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	18	<a href="#">Document empty constructor</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 11 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	18	<a href="#">Public method and constructor comments are required</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 12 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	22	<a href="#">Parameter 'port' is not assigned and could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 13 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	22	<a href="#">Parameter 'serverStatus' is not assigned and could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 14 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	22	<a href="#">Parameter 'websiteFilesPath' is not assigned and could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 15 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	22	<a href="#">Public method and constructor comments are required</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 16 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	28	<a href="#">Explicit type arguments can be replaced by Diamond Operator</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 17 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	35	<a href="#">Parameter 'port' is not assigned and could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 18 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	43	<a href="#">Parameter 'serverStatus' is not assigned and could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 19 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	49	<a href="#">Parameter 'websiteFilesPath' is not assigned and could be declared final</a>

E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 20 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	55	<a href="#">Parameter 'request' is not assigned and could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 21 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	59	<a href="#">Parameter 'port' is not assigned and could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 22 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	59	<a href="#">Parameter 'serverStatus' is not assigned and could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 23 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	59	<a href="#">Parameter 'websiteFilePath' is not assigned and could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 24 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	59	<a href="#">Public method and constructor comments are required</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 25 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	61	<a href="#">Avoid using Literals in Conditional Statements</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 26 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	65	<a href="#">Position literals first in String comparisons</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 27 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	65	<a href="#">Position literals first in String comparisons</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 28 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	69	<a href="#">Position literals first in String comparisons</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 29 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	69	<a href="#">Position literals first in String comparisons</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 30 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	75	<a href="#">Avoid using implementation types like 'ArrayList'; use the interface instead</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 31 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	75	<a href="#">Parameter 'newLevel' is not assigned and could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 32 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	75	<a href="#">Public method and constructor comments are required</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 33 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\WebServer.java	78	<a href="#">Parameter 'level' is not assigned and could be declared final</a>

E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\WebServer.java	78	<a href="#">Parameter 'newPage' is not assigned and could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\WebServer.java	78	<a href="#">Public method and constructor comments are required</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\WebServer.java	79	<a href="#">Potential violation of Law of Demeter (method chain calls)</a>

### 1.2.4.3. ServerController Report Table

#### ServerController report

#### Problems found

#	File	Line	Problem
1	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	15	<a href="#">Class comments are required</a>
2	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	15	<a href="#">The class 'ServerController' has a Modified Cyclomatic Complexity of 4 (Highest = 18).</a>
3	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	15	<a href="#">The class 'ServerController' has a Standard Cyclomatic Complexity of 4 (Highest = 18).</a>
4	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	17	<a href="#">Field comments are required</a>
5	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	17	<a href="#">Found non-transient, non-static member. Please</a>

		<a href="#">mark as transient or provide accessors.</a>
6	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	17 <a href="#">Private field 'webServer' could be made final; it is only initialized in the declaration or constructor.</a>
7	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	19 <a href="#">Parameter 'webServer' is not assigned and could be declared final</a>
8	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	19 <a href="#">Public method and constructor comments are required</a>
9	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	23 <a href="#">Parameter 'socketPort' is not assigned and could be declared final</a>
10	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	23 <a href="#">Public method and constructor comments are required</a>
11	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	26 <a href="#">Local variable 'newSocket' could be declared final</a>
12	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	27 <a href="#">System.out.println is used</a>
13	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	28 <a href="#">A method should have only one exit point, and that should be the last statement in the method</a>
14	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	30 <a href="#">System.out.println is used</a>
15	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	33 <a href="#">System.out.println is used</a>
16	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	35 <a href="#">Avoid catching generic exceptions such as NullPointerException, RuntimeException, Exception in try-catch block</a>
17	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	36 <a href="#">System.out.println is used</a>

E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	37	<a href="#">System.out.println is used</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	37	<a href="#">The String literal "Exception: " appears 4 times in this file; the first occurrence is on line 37</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	43	<a href="#">A method or constructor should not explicitly declare unchecked exceptions in its 'throws' clause</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	43	<a href="#">Parameter 'serverSocket' is not assigned and could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	43	<a href="#">Public method and constructor comments are required</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	47	<a href="#">System.out.println is used</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	49	<a href="#">Avoid catching NullPointerException; consider removing the cause of the NPE.</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	49	<a href="#">Avoid catching generic exceptions such as NullPointerException, RuntimeException, Exception in try-catch block</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	51	<a href="#">System.out.println is used</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	54	<a href="#">Avoid catching generic exceptions such as NullPointerException, RuntimeException, Exception in try-catch block</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	56	<a href="#">System.out.println is used</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	57	<a href="#">System.out.println is used</a>



E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	62	<a href="#">A method/constructor should not explicitly throw java.lang.Exception</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	62	<a href="#">Parameter 'serverSocket' is not assigned and could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	62	<a href="#">Public method and constructor comments are required</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	65	<a href="#">Local variable 'newClientSocket' could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	66	<a href="#">System.out.println is used</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	68	<a href="#">Avoid catching generic exceptions such as NullPointerException, RuntimeException, Exception in try-catch block</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	69	<a href="#">System.out.println is used</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	70	<a href="#">System.out.println is used</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	75	<a href="#">A method or constructor should not explicitly declare unchecked exceptions in its 'throws' clause</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	75	<a href="#">Parameter 'clientSocket' is not assigned and could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	75	<a href="#">Public method and constructor comments are required</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	79	<a href="#">System.out.println is used</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	81	<a href="#">Avoid catching NullPointerException; consider removing the cause of the NPE.</a>

43	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	81	<a href="#">Avoid catching generic exceptions such as NullPointerException, RuntimeException, Exception in try-catch block</a>
44	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	83	<a href="#">System.out.println is used</a>
45	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	86	<a href="#">Avoid catching generic exceptions such as NullPointerException, RuntimeException, Exception in try-catch block</a>
46	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	88	<a href="#">System.out.println is used</a>
47	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	89	<a href="#">System.out.println is used</a>
48	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	94	<a href="#">A method/constructor should not explicitly throw java.lang.Exception</a>
49	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	94	<a href="#">Parameter 'serverSocket' is not assigned and could be declared final</a>
50	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	94	<a href="#">Public method and constructor comments are required</a>
51	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	97	<a href="#">Avoid catching generic exceptions such as NullPointerException, RuntimeException, Exception in try-catch block</a>
52	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	98	<a href="#">System.out.println is used</a>
53	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	99	<a href="#">System.out.println is used</a>
54	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	104	<a href="#">Public method and constructor comments are required</a>

55	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	107	<a href="#">Local variable 'clientSocket' could be declared final</a>
56	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	107	<a href="#">it is recommended to wrap resource in try-with-resource declaration directly</a>
57	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	114	<a href="#">System.err.println is used</a>
58	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	116	<a href="#">Avoid catching generic exceptions such as NullPointerException, RuntimeException, Exception in try-catch block</a>
59	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	117	<a href="#">Avoid printStackTrace(); use a logger call instead.</a>
60	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	121	<a href="#">Avoid really long methods.</a>
61	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	121	<a href="#">Parameter 'clientSocket' is not assigned and could be declared final</a>
62	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	121	<a href="#">Public method and constructor comments are required</a>
63	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	121	<a href="#">The method 'clientHandler' has a Modified Cyclomatic Complexity of 18.</a>
64	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	121	<a href="#">The method 'clientHandler' has a Standard Cyclomatic Complexity of 18.</a>
65	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	121	<a href="#">The method 'clientHandler(Socket)' has a NCSS line count of 68.</a>
66	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	121	<a href="#">The method 'clientHandler(Socket)' has a cognitive complexity of 39, current threshold is 15</a>

67	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	121	<a href="#">The method 'clientHandler(Socket)' has a cyclomatic complexity of 20.</a>
68	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	121	<a href="#">The method 'clientHandler(Socket)' has an NPath complexity of 545, current threshold is 200</a>
69	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	123	<a href="#">Explicit type arguments can be replaced by Diamond Operator</a>
70	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	123	<a href="#">Local variable 'inputs' could be declared final</a>
71	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	131	<a href="#">Ensure that resources like this OutputStream object are closed after use</a>
72	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	131	<a href="#">Local variable 'out' could be declared final</a>
73	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	132	<a href="#">Avoid variables with short names like in</a>
74	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	132	<a href="#">Ensure that resources like this InputStreamReader object are closed after use</a>
75	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	132	<a href="#">Local variable 'in' could be declared final</a>
76	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	136	<a href="#">Avoid assignments in operands</a>
77	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	136	<a href="#">Found 'DU'-anomaly for variable 'inputString' (lines '136'-'224').</a>
78	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	139	<a href="#">System.out.println is used</a>
79	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	144	<a href="#">Potential violation of Law of Demeter (object not created locally)</a>
80	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	150	<a href="#">Avoid empty if statements</a>

81	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	153	<a href="#">Potential violation of Law of Demeter (method chain calls)</a>
82	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	155	<a href="#">Avoid using Literals in Conditional Statements</a>
83	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	155	<a href="#">Avoid using Literals in Conditional Statements</a>
84	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	165	<a href="#">System.out.println is used</a>
85	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	167	<a href="#">Potential violation of Law of Demeter (method chain calls)</a>
86	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	167	<a href="#">Potential violation of Law of Demeter (method chain calls)</a>
87	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	168	<a href="#">Potential violation of Law of Demeter (method chain calls)</a>
88	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	168	<a href="#">Potential violation of Law of Demeter (static property access)</a>
89	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	169	<a href="#">Local variable 'aux' could be declared final</a>
90	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	171	<a href="#">Potential violation of Law of Demeter (method chain calls)</a>
91	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	171	<a href="#">Potential violation of Law of Demeter (static property access)</a>
92	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	172	<a href="#">Local variable 'aux' could be declared final</a>
93	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	174	<a href="#">Potential violation of Law of Demeter (method chain calls)</a>
94	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	174	<a href="#">Potential violation of Law of Demeter (static property access)</a>
95	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	175	<a href="#">Local variable 'aux' could be declared final</a>

E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 96 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\ServerController.java	182	<a href="#">System.out.println is used</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 97 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\ServerController.java	187	<a href="#">Local variable 'tmpRequest' could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 98 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\ServerController.java	191	<a href="#">Position literals first in String comparisons</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 99 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\ServerController.java	191	<a href="#">Potential violation of Law of Demeter (method chain calls)</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 100 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\ServerController.java	198	<a href="#">Position literals first in String comparisons</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 101 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\ServerController.java	198	<a href="#">Potential violation of Law of Demeter (method chain calls)</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 102 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\ServerController.java	215	<a href="#">Potential violation of Law of Demeter (object not created locally)</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 103 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\ServerController.java	217	<a href="#">Avoid catching NullPointerException; consider removing the cause of the NPE.</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 104 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\ServerController.java	217	<a href="#">Avoid catching generic exceptions such as NullPointerException, RuntimeException, Exception in try-catch block</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 105 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\ServerController.java	218	<a href="#">System.err.println is used</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 106 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\ServerController.java	220	<a href="#">Avoid printStackTrace(); use a logger call instead.</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 107 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\ServerController.java	221	<a href="#">System.err.println is used</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 108 RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\webserver\ServerController.java	227	<a href="#">Avoid prefixing parameters by in, out or inOut. Uses Javadoc to document this behavior.</a>



109	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	227	<a href="#">Parameter 'content' is not assigned and could be declared final</a>
110	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	227	<a href="#">Parameter 'contentType' is not assigned and could be declared final</a>
111	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	227	<a href="#">Parameter 'out' is not assigned and could be declared final</a>
112	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	227	<a href="#">Parameter 'status' is not assigned and could be declared final</a>
113	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\webserver\ServerController.java	227	<a href="#">Public method and constructor comments are required</a>

#### 1.2.4.4. WebServerTest Report Table

##### WebServerTest report

##### Problems found

#	File	Line	Problem
1	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	14	<a href="#">All classes, interfaces, enums and annotations must belong to a named package</a>
2	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	14	<a href="#">Class comments are required</a>
3	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	14	<a href="#">Each class should declare at least one constructor</a>
4	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	14	<a href="#">This class has too many methods, consider refactoring it.</a>

5	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	16	<a href="#">Do not use non-final non-private static fields</a>
6	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	16	<a href="#">Field comments are required</a>
7	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	16	<a href="#">To avoid mistakes add a comment at the beginning of the webServer field if you want a default access modifier</a>
8	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	16	<a href="#">Use explicit scoping instead of the default package private level</a>
9	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	19	<a href="#">Public method and constructor comments are required</a>
10	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	21	<a href="#">The String literal "Stopped" appears 8 times in this file; the first occurrence is on line 21</a>
11	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	21	<a href="#">The String literal "src/main/java/website" appears 8 times in this file; the first occurrence is on line 21</a>
12	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	23	<a href="#">System.out.println is used</a>
13	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	28	<a href="#">Public method and constructor comments are required</a>
14	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	29	<a href="#">JUnit assertions should include a message</a>
15	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	33	<a href="#">JUnit tests should include assert() or fail()</a>
16	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	33	<a href="#">Public method and constructor comments are required</a>
17	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	38	<a href="#">Public method and constructor comments are required</a>
18	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	43	<a href="#">JUnit tests should include assert() or fail()</a>



19	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	43	<a href="#">Public method and constructor comments are required</a>
20	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	48	<a href="#">Public method and constructor comments are required</a>
21	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	53	<a href="#">JUnit tests should include assert() or fail()</a>
22	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	53	<a href="#">Public method and constructor comments are required</a>
23	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	58	<a href="#">Public method and constructor comments are required</a>
24	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	63	<a href="#">Public method and constructor comments are required</a>
25	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	63	<a href="#">Unit tests should not contain more than 1 assert(s).</a>
26	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	65	<a href="#">JUnit assertions should include a message</a>
27	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	65	<a href="#">Potential violation of Law of Demeter (static property access)</a>
28	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	67	<a href="#">Explicit type arguments can be replaced by Diamond Operator</a>
29	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	67	<a href="#">Local variable 'testLevel' could be declared final</a>
30	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	69	<a href="#">JUnit assertions should include a message</a>
31	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	69	<a href="#">Potential violation of Law of Demeter (static property access)</a>
32	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	73	<a href="#">Public method and constructor comments are required</a>
33	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\WebServerTest.java	73	<a href="#">Unit tests should not contain more than 1 assert(s).</a>

E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 34 RO\CTI_VVS_Anul4_Sem1\web- server\src\test\java\WebServerTest.java	75	<a href="#">Explicit type arguments can be replaced by Diamond Operator</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 35 RO\CTI_VVS_Anul4_Sem1\web- server\src\test\java\WebServerTest.java	75	<a href="#">Local variable 'testLevel' could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 36 RO\CTI_VVS_Anul4_Sem1\web- server\src\test\java\WebServerTest.java	77	<a href="#">JUnit assertions should include a message</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 37 RO\CTI_VVS_Anul4_Sem1\web- server\src\test\java\WebServerTest.java	77	<a href="#">Potential violation of Law of Demeter (method chain calls)</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 38 RO\CTI_VVS_Anul4_Sem1\web- server\src\test\java\WebServerTest.java	77	<a href="#">Potential violation of Law of Demeter (static property access)</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 39 RO\CTI_VVS_Anul4_Sem1\web- server\src\test\java\WebServerTest.java	79	<a href="#">JUnit assertions should include a message</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 40 RO\CTI_VVS_Anul4_Sem1\web- server\src\test\java\WebServerTest.java	79	<a href="#">Potential violation of Law of Demeter (method chain calls)</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 41 RO\CTI_VVS_Anul4_Sem1\web- server\src\test\java\WebServerTest.java	79	<a href="#">Potential violation of Law of Demeter (static property access)</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 42 RO\CTI_VVS_Anul4_Sem1\web- server\src\test\java\WebServerTest.java	87	<a href="#">Public method and constructor comments are required</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 43 RO\CTI_VVS_Anul4_Sem1\web- server\src\test\java\WebServerTest.java	90	<a href="#">JUnit assertions should include a message</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 44 RO\CTI_VVS_Anul4_Sem1\web- server\src\test\java\WebServerTest.java	94	<a href="#">Public method and constructor comments are required</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 45 RO\CTI_VVS_Anul4_Sem1\web- server\src\test\java\WebServerTest.java	97	<a href="#">JUnit assertions should include a message</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 46 RO\CTI_VVS_Anul4_Sem1\web- server\src\test\java\WebServerTest.java	102	<a href="#">Public method and constructor comments are required</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 47 RO\CTI_VVS_Anul4_Sem1\web- server\src\test\java\WebServerTest.java	105	<a href="#">JUnit assertions should include a message</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 48 RO\CTI_VVS_Anul4_Sem1\web- server\src\test\java\WebServerTest.java	109	<a href="#">Public method and constructor comments are required</a>

E:\UPT\Anul4\_CTI\_RO\Anul4\_Sem1\_CTI-  
49 RO\CTI\_VVS\_Anul4\_Sem1\web-  
server\src\test\java\WebServerTest.java

112 [JUnit assertions should include  
a message](#)

## 1.2.4.5. ServerControllerTest Report Table

### ServerControllerTest report

#### Problems found

#	File	Line	Problem
1	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	1	<a href="#">Unused import 'exceptions.SocketClosedException'</a>
2	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	1	<a href="#">Unused import 'exceptions.SocketClosedException'</a>
3	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	18	<a href="#">All classes, interfaces, enums and annotations must belong to a named package</a>
4	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	18	<a href="#">Class comments are required</a>
5	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	18	<a href="#">Each class should declare at least one constructor</a>
6	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	18	<a href="#">This class has too many methods, consider refactoring it.</a>
7	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	20	<a href="#">Field comments are required</a>
8	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	20	<a href="#">Found non-transient, non-static member. Please mark as transient or provide accessors.</a>
9	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	20	<a href="#">Private field 'port8080' could be made final; it is only initialized in the declaration or constructor.</a>
10	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	21	<a href="#">Field comments are required</a>

11	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	21	<a href="#">Found non-transient, non-static member. Please mark as transient or provide accessors.</a>
12	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	21	<a href="#">Private field 'websiteFilePath' could be made final; it is only initialized in the declaration or constructor.</a>
13	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	22	<a href="#">Avoid using implementation types like 'ArrayList'; use the interface instead</a>
14	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	22	<a href="#">Explicit type arguments can be replaced by Diamond Operator</a>
15	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	22	<a href="#">Field comments are required</a>
16	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	22	<a href="#">Found non-transient, non-static member. Please mark as transient or provide accessors.</a>
17	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	22	<a href="#">Private field 'status' could be made final; it is only initialized in the declaration or constructor.</a>
18	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	26	<a href="#">Public method and constructor comments are required</a>
19	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	28	<a href="#">Local variable 'webServer' could be declared final</a>
20	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	32	<a href="#">Ensure that resources like this ServerSocket object are closed after use</a>
21	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	32	<a href="#">Local variable 'socket' could be declared final</a>
22	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	34	<a href="#">JUnit assertions should include a message</a>
23	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	34	<a href="#">Potential violation of Law of Demeter (object not created locally)</a>
24	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	36	<a href="#">Potential violation of Law of Demeter (object not created locally)</a>
25	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	39	<a href="#">'catch' branch identical to 'BindException' branch</a>

E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	46	<a href="#">Public method and constructor comments are required</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	47	<a href="#">Local variable 'webServer' could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	51	<a href="#">Avoid unused local variables such as 'socket'.</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	51	<a href="#">Ensure that resources like this ServerSocket object are closed after use</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	51	<a href="#">Found 'DU'-anomaly for variable 'socket' (lines '51'-'53').</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	51	<a href="#">Local variable 'socket' could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	51	<a href="#">Number 65536 should separate every third digit with an underscore</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	56	<a href="#">Public method and constructor comments are required</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	58	<a href="#">Avoid unused local variables such as 'serverSocket1'.</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	58	<a href="#">Ensure that resources like this ServerSocket object are closed after use</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	58	<a href="#">Found 'DU'-anomaly for variable 'serverSocket1' (lines '58'-'61').</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	58	<a href="#">Local variable 'serverSocket1' could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	59	<a href="#">Avoid unused local variables such as 'serverSocket2'.</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	59	<a href="#">Ensure that resources like this ServerSocket object are closed after use</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	59	<a href="#">Found 'DU'-anomaly for variable 'serverSocket2' (lines '59'-'61').</a>

41	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	59	<a href="#">Local variable 'serverSocket2' could be declared final</a>
42	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	65	<a href="#">Public method and constructor comments are required</a>
43	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	73	<a href="#">Public method and constructor comments are required</a>
44	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	76	<a href="#">Ensure that resources like this ServerSocket object are closed after use</a>
45	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	76	<a href="#">Local variable 'serverSocket' could be declared final</a>
46	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	78	<a href="#">JUnit assertions should include a message</a>
47	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	78	<a href="#">Potential violation of Law of Demeter (object not created locally)</a>
48	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	87	<a href="#">JUnit tests should include assert() or fail()</a>
49	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	87	<a href="#">Public method and constructor comments are required</a>
50	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	89	<a href="#">Ensure that resources like this ServerSocket object are closed after use</a>
51	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	89	<a href="#">Local variable 'serverSocket' could be declared final</a>
52	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	93	<a href="#">Avoid unused local variables such as 'clientSocket'.</a>
53	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	93	<a href="#">Ensure that resources like this Socket object are closed after use</a>
54	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	93	<a href="#">Found 'DU'-anomaly for variable 'clientSocket' (lines '93'-'99').</a>
55	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	93	<a href="#">Local variable 'clientSocket' could be declared final</a>



56	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	95	<a href="#">Avoid catching generic exceptions such as NullPointerException, RuntimeException, Exception in try-catch block</a>
57	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	96	<a href="#">Avoid printStackTrace(); use a logger call instead.</a>
58	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	103	<a href="#">Public method and constructor comments are required</a>
59	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	110	<a href="#">Public method and constructor comments are required</a>
60	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	114	<a href="#">Ensure that resources like this ServerSocket object are closed after use</a>
61	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	114	<a href="#">Local variable 'serverSocket' could be declared final</a>
62	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	115	<a href="#">Ensure that resources like this Socket object are closed after use</a>
63	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	115	<a href="#">Local variable 'clientSocket' could be declared final</a>
64	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	118	<a href="#">JUnit assertions should include a message</a>
65	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	118	<a href="#">Potential violation of Law of Demeter (object not created locally)</a>
66	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	120	<a href="#">Avoid catching generic exceptions such as NullPointerException, RuntimeException, Exception in try-catch block</a>
67	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	121	<a href="#">Avoid printStackTrace(); use a logger call instead.</a>
68	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	128	<a href="#">Public method and constructor comments are required</a>
69	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	128	<a href="#">Unit tests should not contain more than 1 assert(s).</a>

70	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	130	<a href="#">Ensure that resources like this ServerSocket object are closed after use</a>
71	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	130	<a href="#">Local variable 'serverSocket' could be declared final</a>
72	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	131	<a href="#">Ensure that resources like this Socket object are closed after use</a>
73	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	131	<a href="#">Local variable 'clientSocket' could be declared final</a>
74	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	133	<a href="#">JUnit assertions should include a message</a>
75	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	133	<a href="#">Potential violation of Law of Demeter (object not created locally)</a>
76	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	134	<a href="#">JUnit assertions should include a message</a>
77	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	134	<a href="#">Potential violation of Law of Demeter (object not created locally)</a>
78	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	136	<a href="#">Potential violation of Law of Demeter (object not created locally)</a>
79	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	137	<a href="#">Potential violation of Law of Demeter (object not created locally)</a>
80	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	140	<a href="#">'catch' branch identical to 'BindException' branch</a>
81	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	142	<a href="#">'catch' branch identical to 'BindException' branch</a>
82	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	142	<a href="#">Avoid catching generic exceptions such as NullPointerException, RuntimeException, Exception in try-catch block</a>
83	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	148	<a href="#">Public method and constructor comments are required</a>
84	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	149	<a href="#">Ensure that resources like this ServerSocket object are closed after use</a>



85	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	149	<a href="#">Local variable 'serverSocket' could be declared final</a>
86	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	151	<a href="#">Avoid unused local variables such as 'clientSocket'.</a>
87	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	151	<a href="#">Ensure that resources like this Socket object are closed after use</a>
88	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	151	<a href="#">Found 'DU'-anomaly for variable 'clientSocket' (lines '151'-'152').</a>
89	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	151	<a href="#">Local variable 'clientSocket' could be declared final</a>
90	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	156	<a href="#">JUnit tests should include assert() or fail()</a>
91	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	156	<a href="#">Public method and constructor comments are required</a>
92	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	157	<a href="#">Local variable 'webServer' could be declared final</a>
93	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	158	<a href="#">Local variable 'serverController' could be declared final</a>
94	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	160	<a href="#">Ensure that resources like this ServerSocket object are closed after use</a>
95	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	160	<a href="#">Local variable 'serverSocket' could be declared final</a>
96	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	162	<a href="#">Ensure that resources like this Socket object are closed after use</a>
97	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	162	<a href="#">Local variable 'clientSocket' could be declared final</a>
98	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	169	<a href="#">JUnit tests should include assert() or fail()</a>
99	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	169	<a href="#">Public method and constructor comments are required</a>

E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	170	<a href="#">Local variable 'webServer' could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	171	<a href="#">Local variable 'serverController' could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	178	<a href="#">JUnit tests should include assert() or fail()</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	178	<a href="#">Public method and constructor comments are required</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	180	<a href="#">Local variable 'firstWebServer' could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	182	<a href="#">Avoid excessively long variable names like firstServerController</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	182	<a href="#">Local variable 'firstServerController' could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	190	<a href="#">JUnit tests should include assert() or fail()</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	190	<a href="#">Public method and constructor comments are required</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	192	<a href="#">Local variable 'webserver' could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	195	<a href="#">Avoid excessively long variable names like firstServerController</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	195	<a href="#">Local variable 'firstServerController' could be declared final</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	203	<a href="#">JUnit tests should include assert() or fail()</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	203	<a href="#">Public method and constructor comments are required</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\test\java\ServerControllerTest.java	205	<a href="#">Local variable 'webserver' could be declared final</a>

E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 115 RO\CTI_VVS_Anul4_Sem1\web- server\src\test\java\ServerControllerTest.java	208	<a href="#">Avoid excessively long variable names like firstServerController</a>
E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- 116 RO\CTI_VVS_Anul4_Sem1\web- server\src\test\java\ServerControllerTest.java	208	<a href="#">Local variable 'firstServerController' could be declared final</a>

### 1.2.4.6. SocketClosedException Report Table

#### SocketClosedException report

##### Problems found

#	File	Line	Problem
1	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\exceptions\SocketClosedException.java	3	<a href="#">Class comments are required</a>
2	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\exceptions\SocketClosedException.java	3	<a href="#">Classes implementing Serializable should set a serialVersionUID</a>
3	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\exceptions\SocketClosedException.java	3	<a href="#">Each class should declare at least one constructor</a>

### 1.2.4.7. WrongPortException Report Table

#### WrongPortException report

##### Problems found

#	File	Line	Problem
1	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\exceptions\WrongPortException.java	3	<a href="#">Class comments are required</a>
2	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI- RO\CTI_VVS_Anul4_Sem1\web- server\src\main\java\exceptions\WrongPortException.java	3	<a href="#">Each class should declare at least one constructor</a>

### 1.2.4.8. WrongServerException Report Table

#### WrongServerException report

##### Problems found

#	File	Line	Problem
1	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\exceptions\WrongServerException.java	3	<a href="#">Class comments are required</a>
2	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\exceptions\WrongServerException.java	3	<a href="#">Classes implementing Serializable should set a serialVersionUID</a>
3	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\exceptions\WrongServerException.java	3	<a href="#">Each class should declare at least one constructor</a>

### 1.2.4.9. WrongStatusException Report Table

#### WrongStatusException report

##### Problems found

#	File	Line	Problem
1	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\exceptions\WrongStatusException.java	3	<a href="#">Class comments are required</a>
2	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\exceptions\WrongStatusException.java	3	<a href="#">Each class should declare at least one constructor</a>

## 1.2.4.10. WrongWebsitePathException Report Table

### WrongWebsitePathException report

#### Problems found

#	File	Line	Problem
1	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\exceptions\WrongWebsitePathException.java	3	<a href="#">Class comments are required</a>
2	E:\UPT\Anul4_CTI_RO\Anul4_Sem1_CTI-RO\CTI_VVS_Anul4_Sem1\web-server\src\main\java\exceptions\WrongWebsitePathException.java	3	<a href="#">Each class should declare at least one constructor</a>

## 1.3. Bugs fixed

**// TO DO**

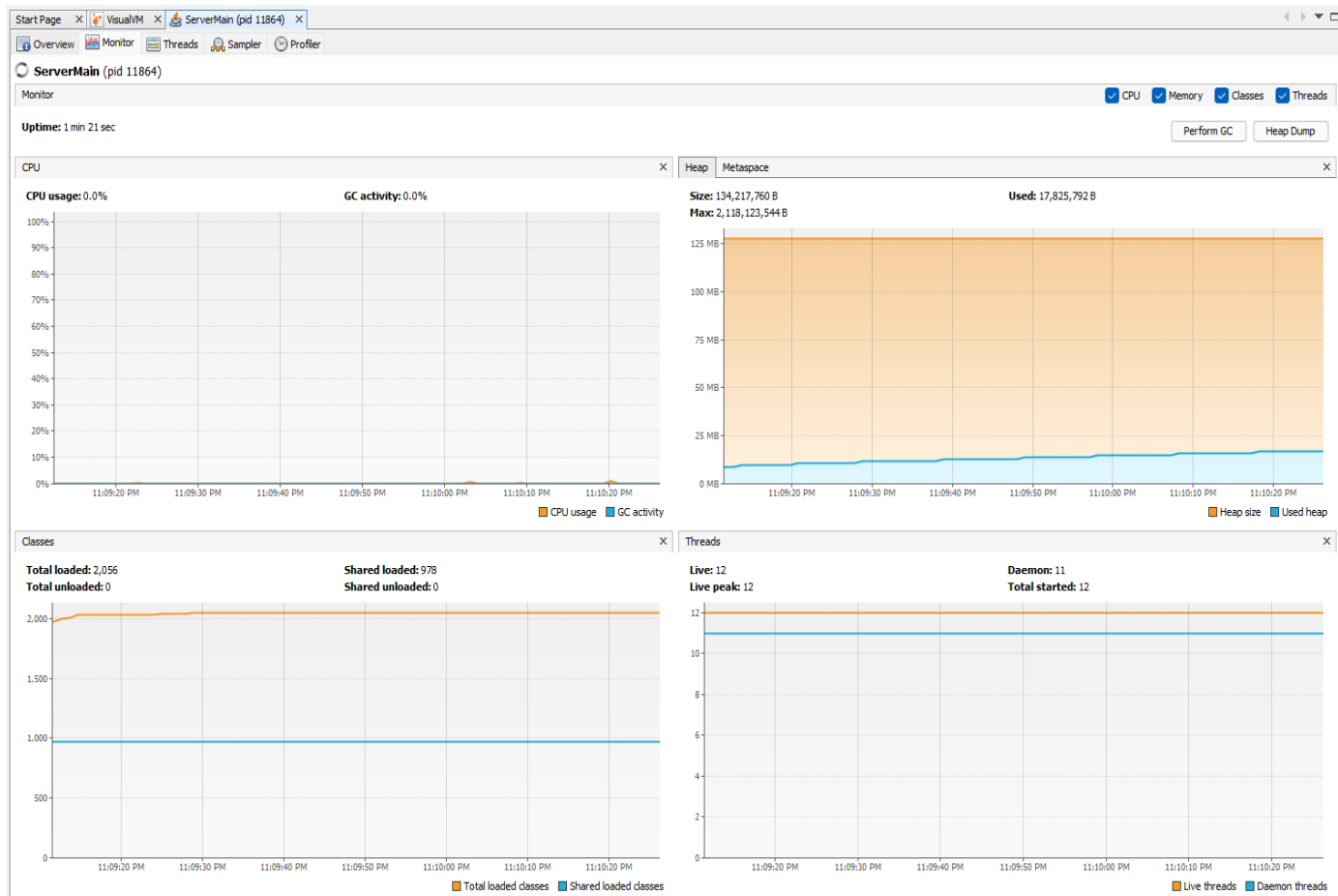
## 2. Dynamic Analysis

### 2.1. Tool

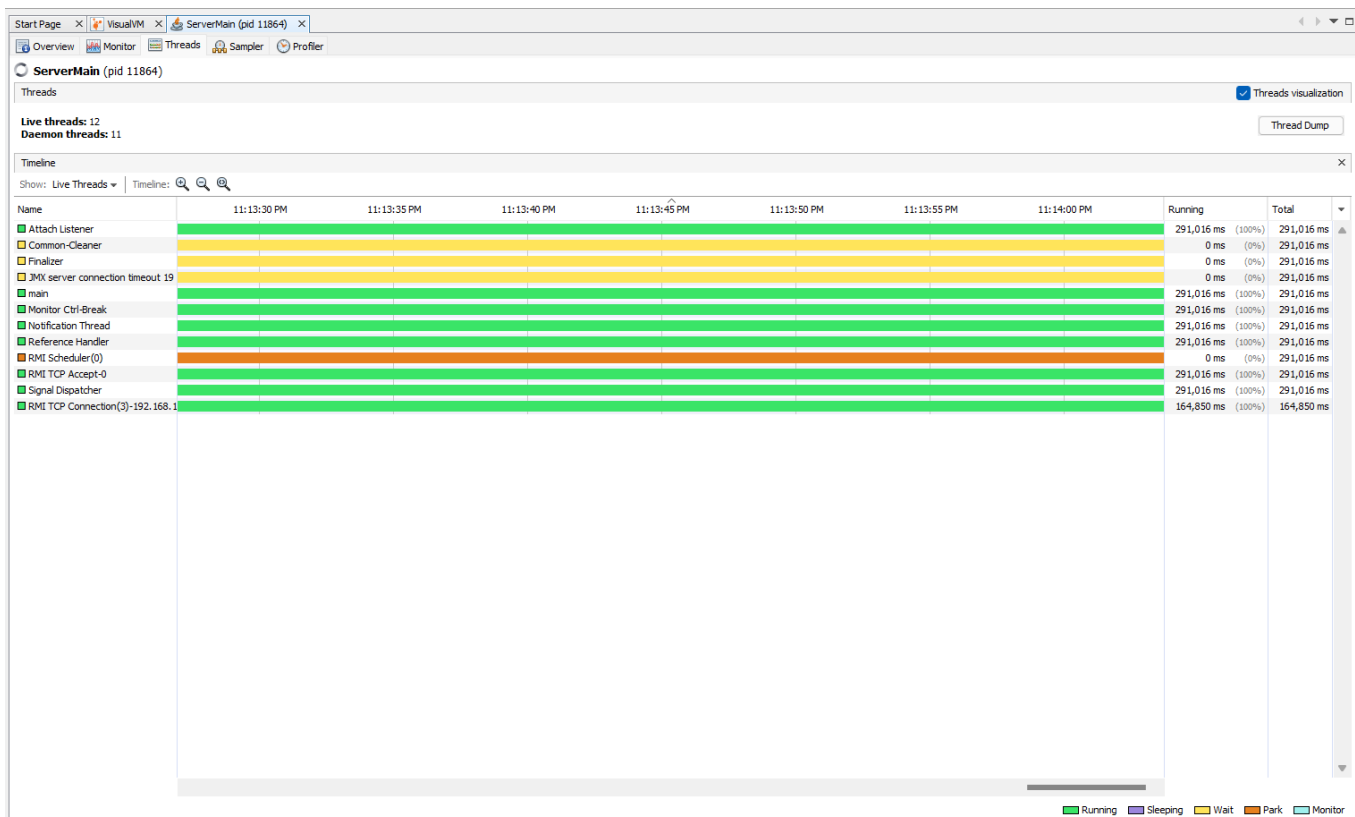
JVisual VM

### 2.2. Diagrams

#### 2.2.1. Monitor

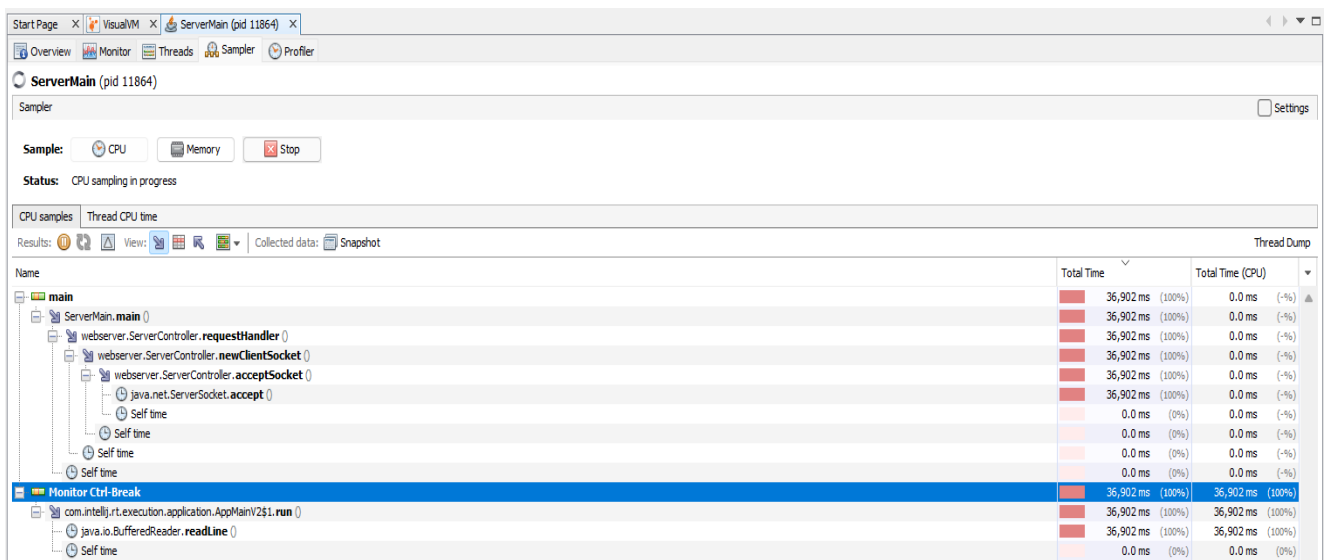


## 2.2.2. Threads



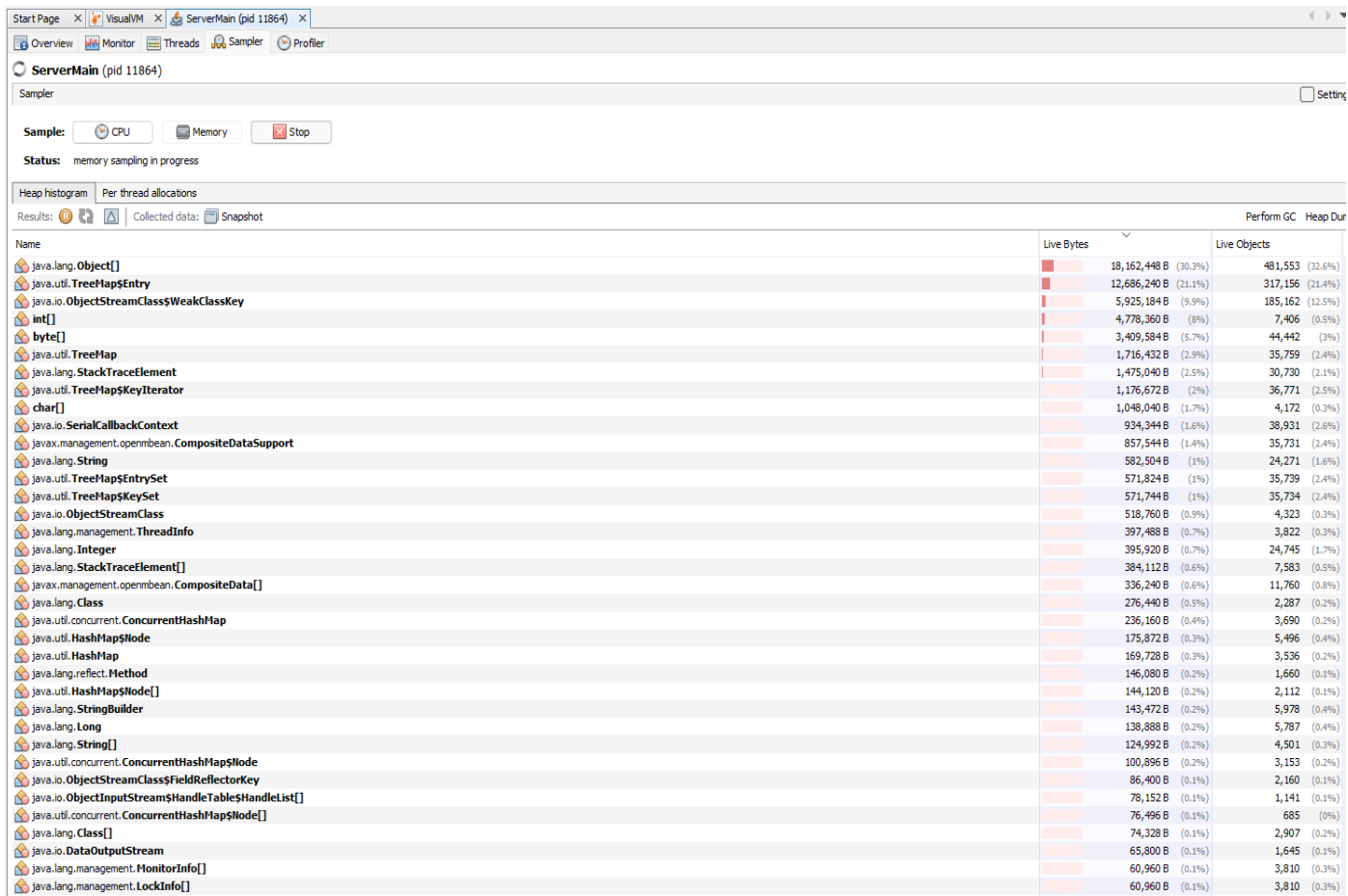
## 2.2.3. Sampler

### 2.2.3.1. CPU



## 2.2.3.2. Memory

### 2.2.3.2.1. Heap Histogram





## 2.2.3.2.2. Per Thread Allocation

