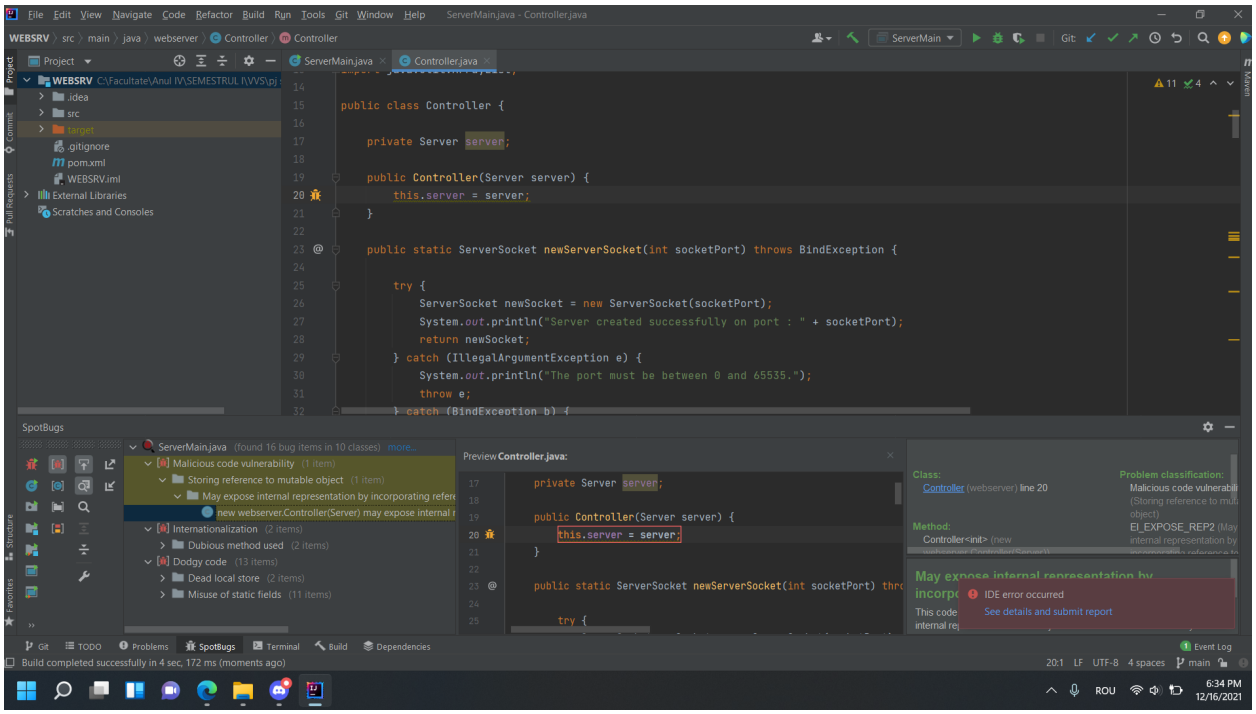
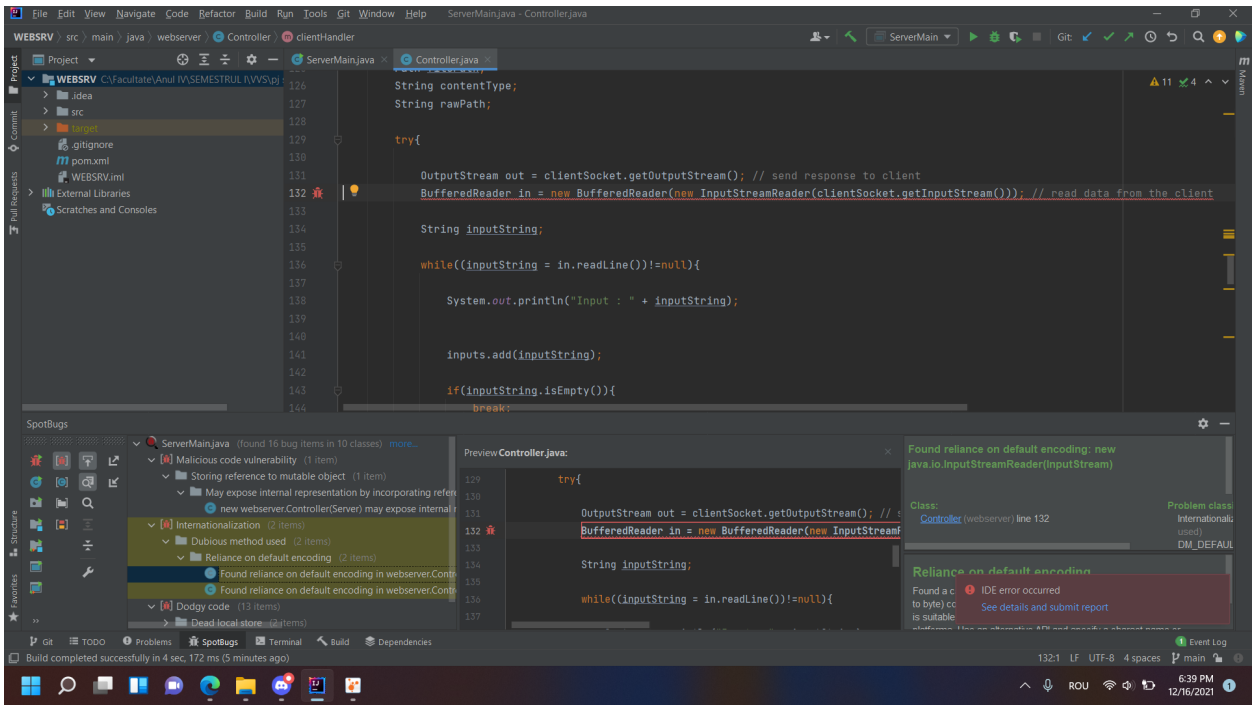
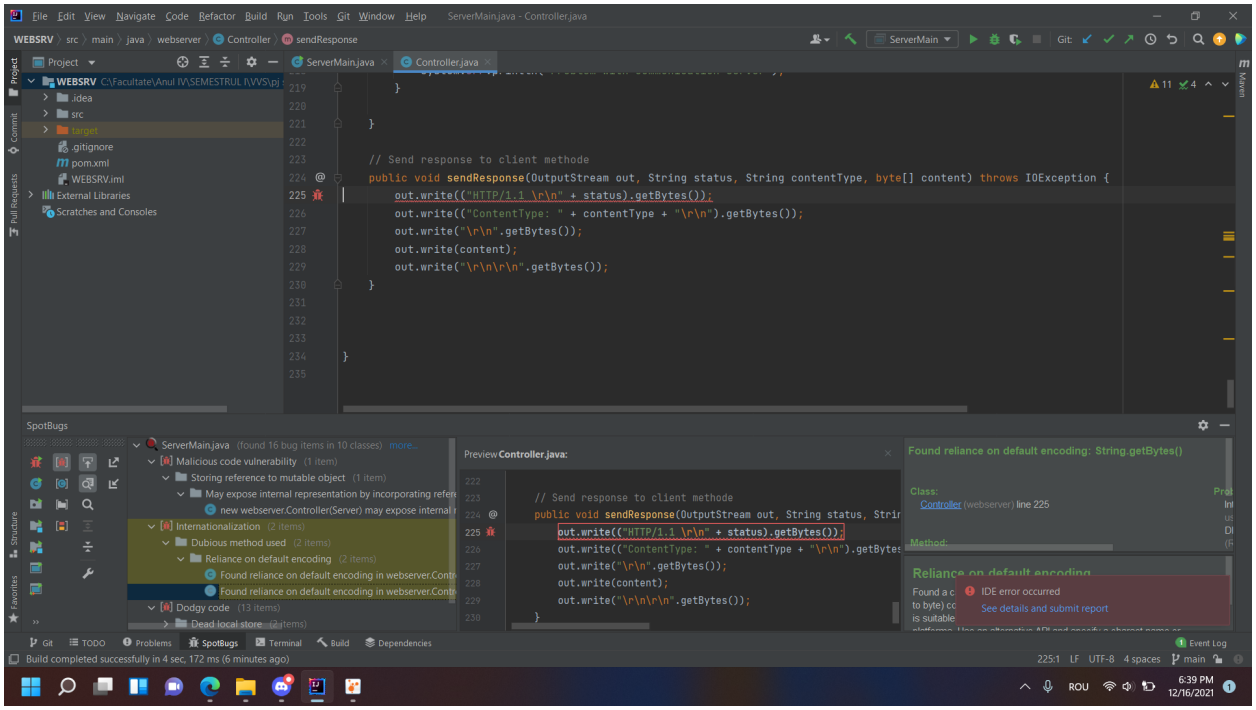
Partea 2 Proiect

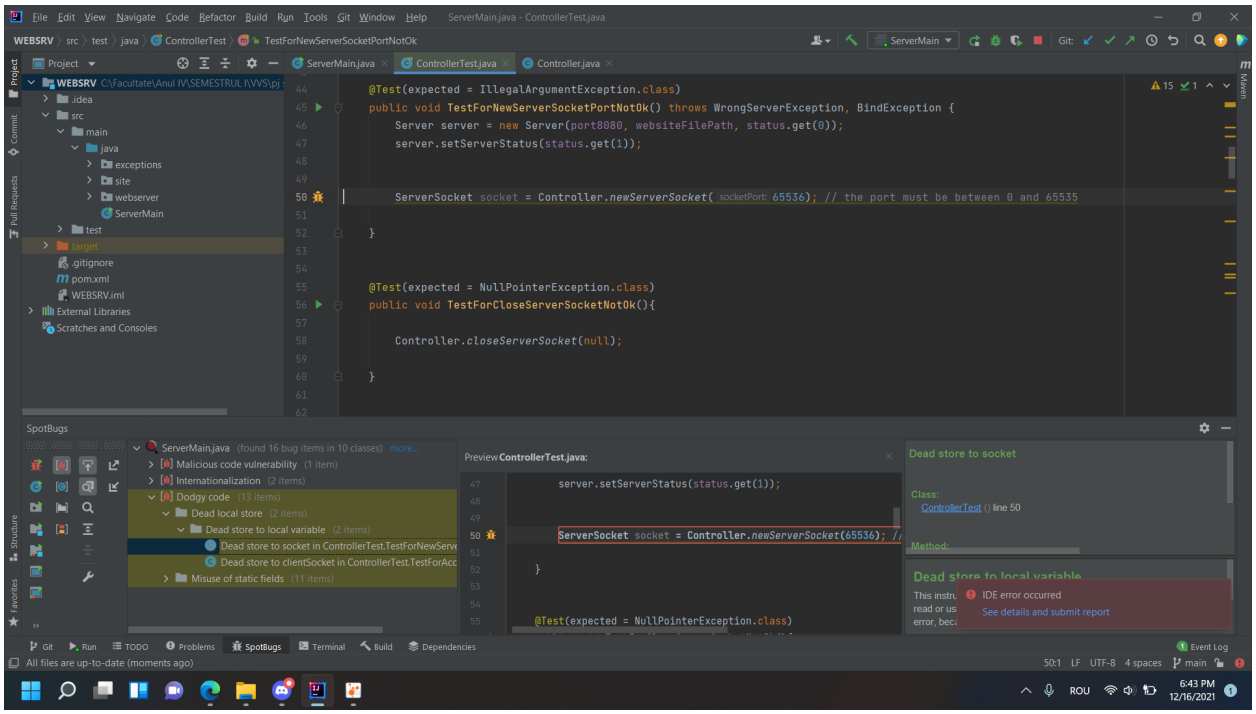
Gurgus Alexandru-Josef

1. Static Analysis with SpotBugs






File Edit View Navigate Code Refactor Build Run Tools Git Window Help
ServerMain.java - Controller.java
WEBSRV src main java webserver Controller sendResponse
ServerMain
Git:
Project
WEBSRV C:\Facultate\Anul IV\SEMESTRUL I\VVS\pj
.idea
src
target
.gitignore
pom.xml
WEBSRV.iml
External Libraries
Scratches and Consoles
ServerMain.java
Controller.java
219 }
220
221 }
222
223 // Send response to client methode
224 public void sendResponse(OutputStream out, String status, String contentType, byte[] content) throws IOException {
225 out.write(("HTTP/1.1 \r\n" + status).getBytes());
226 out.write(("ContentType: " + contentType + "\r\n").getBytes());
227 out.write("\r\n".getBytes());
228 out.write(content);
229 out.write("\r\n\r\n".getBytes());
230 }
231
232
233
234 }
235
11 4
SpotBugs
ServerMain.java (found 16 bug items in 10 classes) more...
Malicious code vulnerability (1 item)
Storing reference to mutable object (1 item)
May expose internal representation by incorporating refere
new webserver.Controller(Server) may expose internal
Internationalization (2 items)
Dubious method used (2 items)
Reliance on default encoding (2 items)
Found reliance on default encoding in webserver.Conte
Found reliance on default encoding in webserver.Conte
Dodgy code (13 items)
Dead local store (2 items)
Preview Controller.java:
222
223 // Send response to client methode
224 public void sendResponse(OutputStream out, String status, Strir
225 out.write(("HTTP/1.1 \r\n" + status).getBytes());
226 out.write(("ContentType: " + contentType + "\r\n").getBytes
227 out.write("\r\n".getBytes());
228 out.write(content);
229 out.write("\r\n\r\n".getBytes());
230 }
Found reliance on default encoding: String.getBytes()
Class:
Controller (webserver) line 225
Method:
Reliance on default encoding
Found a c
to byte) co
is suitable
IDE error occurred
See details and submit report
Git TODO Problems SpotBugs Terminal Build Dependencies
Event Log
Build completed successfully in 4 sec, 172 ms (6 minutes ago)
225:1 LF UTF-8 4 spaces main
ROU
6:39 PM
12/16/2021


File Edit View Navigate Code Refactor Build Run Tools Git Window Help
ServerMain.java - ControllerTest.java
WEBSRV src test java ControllerTest TestForNewServerSocketPortNotOk
ServerMain
Git:
Project
WEBSRV C:\Facultate\Anul IV\SEMESTRUL I\VVS\pj
.idea
src
main
java
exceptions
site
webserver
ServerMain
test
target
.gitignore
pom.xml
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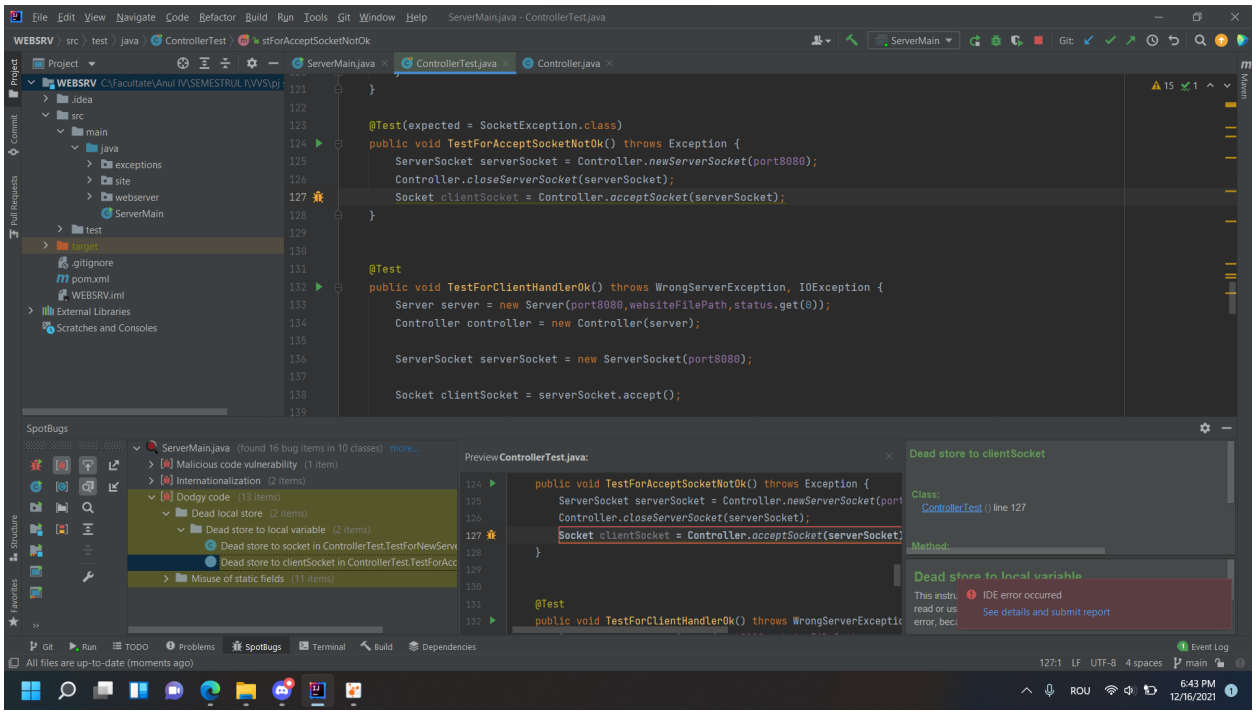
External Libraries
Scratches and Consoles
ServerMain.java
ControllerTest.java
Controller.java
44 @Test(expected = IllegalArgumentException.class)
45 public void TestForNewServerSocketPortNotOk() throws WrongServerException, BindException {
46 Server server = new Server(port8080, websiteFilePath, status.get(0));
47 server.setServerStatus(status.get(1));
48
49
50 ServerSocket socket = Controller.newServerSocket(socketPort: 65536); // the port must be between 0 and 65535
51
52 }
53
54
55 @Test(expected = NullPointerException.class)
56 public void TestForCloseServerSocketNotOk(){
57
58 Controller.closeServerSocket(null);
59
60 }
61
62
15 1
SpotBugs
ServerMain.java (found 16 bug items in 10 classes) more...
Malicious code vulnerability (1 item)
Internationalization (2 items)
Dodgy code (13 items)
Dead local store (2 items)
Dead store to local variable (2 items)
Dead store to socket in ControllerTest.TestForNewServe
Dead store to clientSocket in ControllerTest.TestForAcc
Misuse of static fields (11 items)
Preview ControllerTest.java:
47 server.setServerStatus(status.get(1));
48
49
50 ServerSocket socket = Controller.newServerSocket(65536); //
51
52 }
53
54
55 @Test(expected = NullPointerException.class)
Dead store to socket
Class:
ControllerTest () line 50
Method:
Dead store to local variable
This instru
read or us
error, bec
IDE error occurred
See details and submit report
Git Run TODO Problems SpotBugs Terminal Build Dependencies
Event Log
All files are up-to-date (moments ago)
50:1 LF UTF-8 4 spaces main
ROU
6:43 PM
12/16/2021


File Edit View Navigate Code Refactor Build Run Tools Git Window Help
ServerMain.java - ControllerTest.java
WEBSRV src test java ControllerTest stForAcceptSocketNotOk
ServerMain
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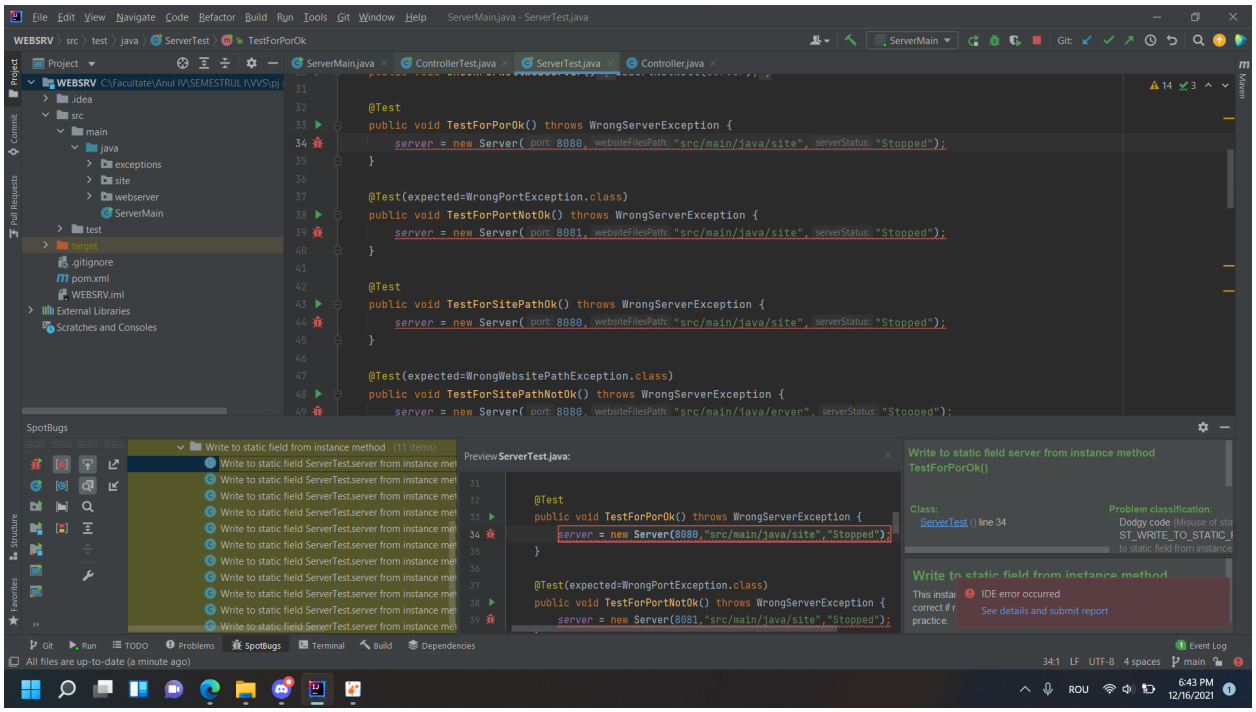
ServerMain.java
ControllerTest.java
Controller.java
15 1
121 }
122
123 @Test(expected = SocketException.class)
124 public void TestForAcceptSocketNotOk() throws Exception {
125 ServerSocket serverSocket = Controller.newServerSocket(port8888);
126 Controller.closeServerSocket(serverSocket);
127 Socket clientSocket = Controller.acceptSocket(serverSocket);
128 }
129
130
131 @Test
132 public void TestForClientHandlerOk() throws WrongServerException, IOException {
133 Server server = new Server(port8888,websiteFilePath,status.get(0));
134 Controller controller = new Controller(server);
135
136 ServerSocket serverSocket = new ServerSocket(port8888);
137
138 Socket clientSocket = serverSocket.accept();
139
SpotBugs
ServerMain.java (found 16 bug items in 10 classes) more...
Malicious code vulnerability (1 item)
Internationalization (2 items)
Dodgy code (13 items)
Dead local store (2 items)
Dead store to local variable (2 items)
Dead store to socket in ControllerTest.TestForNewServe
Dead store to clientSocket in ControllerTest.TestForAcc
Misuse of static fields (11 items)
Preview ControllerTest.java:
Dead store to clientSocket
Class:
ControllerTest () line 127
Method:
Dead store to local variable
IDE error occurred
See details and submit report
Git Run TODO Problems SpotBugs Terminal Build Dependencies
Event Log
All files are up-to-date (moments ago)
127:1 LF UTF-8 4 spaces main
ROU
6:43 PM
12/16/2021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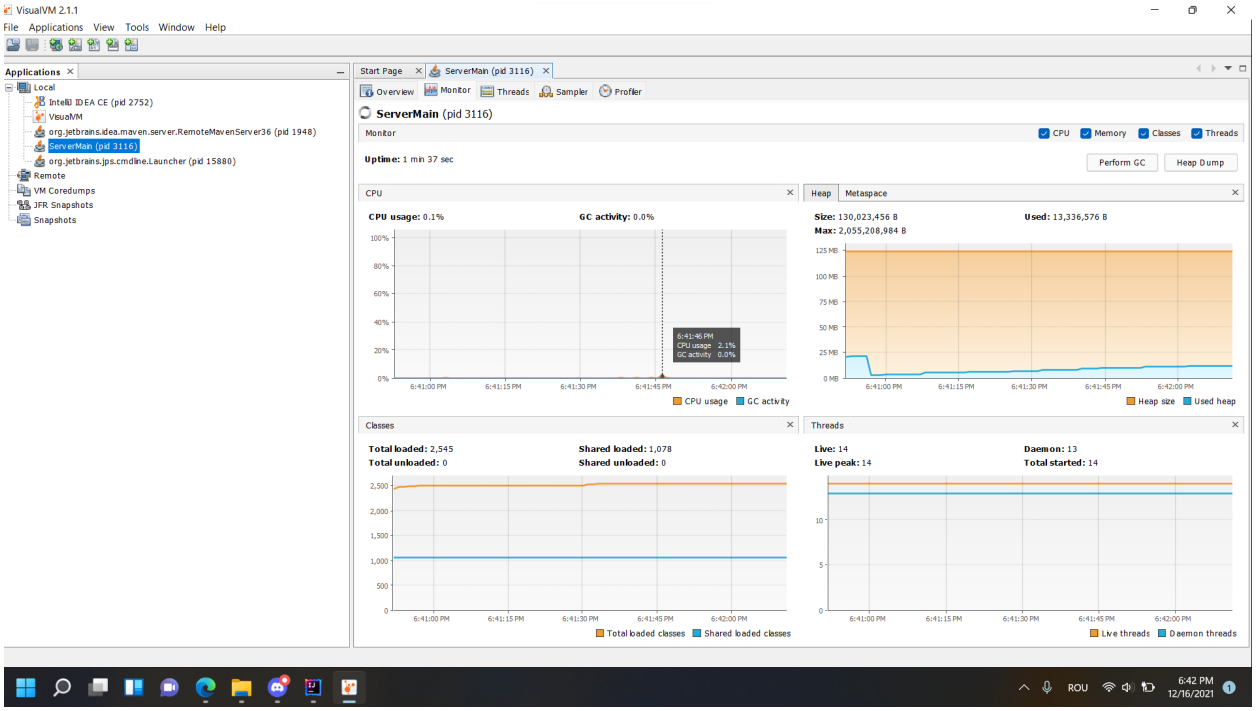
External Libraries
Scratches and Consoles
ServerMain.java
ControllerTest.java
ServerTest.java
Controller.java
14 3
32 @Test
33 public void TestForPorOk() throws WrongServerException {
34 server = new Server(port: 8080, websiteFilesPath: "src/main/java/site", serverStatus: "Stopped");
35 }
36
37 @Test(expected=WrongPortException.class)
38 public void TestForPortNotOk() throws WrongServerException {
39 server = new Server(port: 8081, websiteFilesPath: "src/main/java/site", serverStatus: "Stopped");
40 }
41
42 @Test
43 public void TestForSitePathOk() throws WrongServerException {
44 server = new Server(port: 8080, websiteFilesPath: "src/main/java/site", serverStatus: "Stopped");
45 }
46
47 @Test(expected=WrongWebsitePathException.class)
48 public void TestForSitePathNotOk() throws WrongServerException {
49 server = new Server(port: 8080, websiteFilesPath: "src/main/java/erver", serverStatus: "Stopped");
SpotBugs
Write to static field from instance method (11 items)
Write to static field ServerTest.server from instance met
Preview ServerTest.java:
Write to static field server from instance method TestForPorOk()
Class:
ServerTest () line 34
Problem classification:
Dodgy code (Misuse of sta
ST_WRITE_TO_STATIC_
to static field from instance
Write to static field from instance method
IDE error occurred
See details and submit report
Git Run TODO Problems SpotBugs Terminal Build Dependencies
Event Log
All files are up-to-date (a minute ago)
34:1 LF UTF-8 4 spaces main
ROU
6:43 PM
12/16/2021

2. Dynamic Analysis with VisualVM