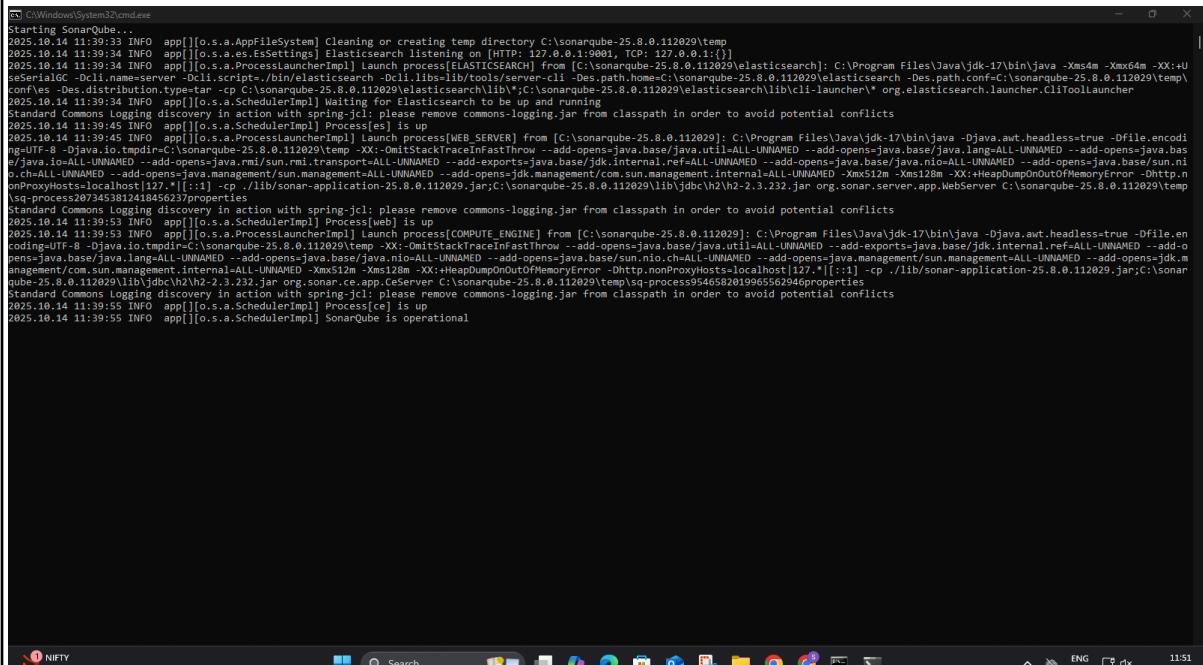
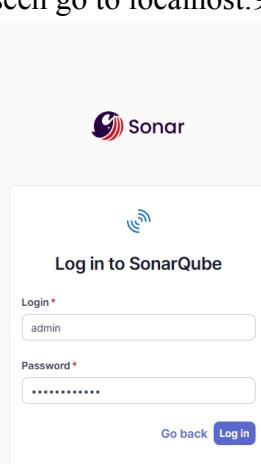


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**Department of Information Technology**  
**ADL Practical Exam**

|                      |                  |
|----------------------|------------------|
| Name: Shravani Joshi | Date: 14/10/2025 |
| Class: TEITA         | Exam seat no:    |
| PID: 231049          | Time:            |
| Roll No: 46          | No. of Pages:12  |
| Duration: One Hour   |                  |

| Sr No | Problem Statement (Type here): Use SonarQube on Windows machine to test HTML File. Include passed and failed test scenario   |
|-------|--|
| 1.    | <p>Step 1: In C:\sonarqube-25.8.0.112029\bin\windows-x86-64, run the StartSonar.bat as administrator</p> <p>Screenshot 1:</p>  <pre> Starting SonarQube... 2025.10.14 11:39:33 INFO  app[][o.s.a.AppFileSystem] Cleaning or creating temp directory C:\sonarqube-25.8.0.112029\temp 2025.10.14 11:39:34 INFO  app[][o.s.a.ESSettings] Elasticsearch listening on [HTTP: 127.0.0.1:9001, TCP: 127.0.0.1:{9001}] 2025.10.14 11:39:34 INFO  app[][o.s.a.ProcessLauncherImpl] Launch process[ELASTICSEARCH] from [C:\sonarqube-25.8.0.112029\elasticsearch]: C:\Program Files\Java\jdk-17\bin\java -Xms4m -Xmx64m -XX:+UseSerialGC -Dcli.name=server -Dcli.script=./bin/elasticsearch -Dcli.lib\$lib/tools/server-cli -Des.path.home=C:\sonarqube-25.8.0.112029\elasticsearch -Des.path.conf=C:\sonarqube-25.8.0.112029\temp\conf\es -Des.distribution.type=tar -cp C:\sonarqube-25.8.0.112029\elasticsearch\lib\*;C:\sonarqube-25.8.0.112029\elasticsearch\lib\cli-launcher\* org.elasticsearch.launcher.CliToolLauncher 2025.10.14 11:39:34 INFO  app[][o.s.a.ProcessLauncherImpl] Process[elasticsearch] is up Standard Commons Logging discovery in action with spring-jcl [please remove commons-logging.jar from classpath in order to avoid potential conflicts] 2025.10.14 11:39:45 INFO  app[][o.s.a.SchedulerImpl] Process[es] is up Standard Commons Logging discovery in action with spring-jcl [please remove commons-logging.jar from classpath in order to avoid potential conflicts] 2025.10.14 11:39:53 INFO  app[][o.s.a.ProcessLauncherImpl] Launch process[WEB_SERVER] from [C:\sonarqube-25.8.0.112029]: C:\Program Files\Java\jdk-17\bin\java -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Djava.io.tmpdir=C:\sonarqube-25.8.0.112029\tmp\* -XX:OmitStackTraceInFastThrow --add-opens=java.base/java.util=ALL-UNNAMED --add-opens=java.base/java.lang=ALL-UNNAMED --add-opens=java.base/java.nio=ALL-UNNAMED --add-opens=java.base/java.net=ALL-UNNAMED --add-opens=java.management=ALL-UNNAMED --add-opens=jdk.management.com.sun.management.internal=ALL-UNNAMED -Xms512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -Dhttp.nonProxyHosts=localhost:[127.0.0.1] -cp ./lib/sonar-application-25.8.0.112029.jar;c:\sonarqube-25.8.0.112029\lib\jdbch2-2.3.223.jar;org.sonar.application.C:\sonarqube-25.8.0.112029\temp\sq-process94658201996562546\properties Standard Commons Logging discovery in action with spring-jcl [please remove commons-logging.jar from classpath in order to avoid potential conflicts] 2025.10.14 11:39:55 INFO  app[][o.s.a.SchedulerImpl] Process[web] is up Standard Commons Logging discovery in action with spring-jcl [please remove commons-logging.jar from classpath in order to avoid potential conflicts] 2025.10.14 11:39:53 INFO  app[][o.s.a.ProcessLauncherImpl] Launch process[COMPUTE_ENGINE] from [C:\sonarqube-25.8.0.112029]: C:\Program Files\Java\jdk-17\bin\java -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Djava.io.tmpdir=C:\sonarqube-25.8.0.112029\tmp\* -XX:OmitStackTraceInFastThrow --add-opens=java.base/java.util=ALL-UNNAMED --add-exports=java.base/jdk.internal.ref=ALL-UNNAMED --add-opens=java.base/java.lang=ALL-UNNAMED --add-opens=java.base/java.nio=ALL-UNNAMED --add-opens=java.base/java.net=ALL-UNNAMED --add-opens=java.management=ALL-UNNAMED --add-opens=jdk.management.com.sun.management.internal=ALL-UNNAMED -Xms512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -Dhttp.nonProxyHosts=localhost:[127.0.0.1] -cp ./lib/sonar-application-25.8.0.112029.jar;c:\sonarqube-25.8.0.112029\lib\jdbch2-2.3.223.jar;org.sonar.application.C:\sonarqube-25.8.0.112029\temp\sq-process94658201996562546\properties Standard Commons Logging discovery in action with spring-jcl [please remove commons-logging.jar from classpath in order to avoid potential conflicts] 2025.10.14 11:39:55 INFO  app[][o.s.a.SchedulerImpl] SonarQube is operational </pre> <p>Once SonarQube is operational is seen go to localhost:9000 and login to SonarQube</p>  <p>SonarQube™ technology is powered by SonarSource SA</p> <p>SonarQube Server Terms &amp; Conditions Community Documentation Plugins</p> |

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| PID: 231049          | Time:            |
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| Duration: One Hour   |                  |

2. Step 2 (internal step 1): After logging in to SonarQube, create a new local project using the global settings.

Screenshot 2:

Project display name \* ⓘ  
mock

Project key \* ⓘ  
mock

Main branch name \* ⓘ  
main

The name of your project's default branch [Learn More](#)

Cancel Next

Choose the baseline for new code for this project

Use the global setting

Previous version  
Any code that has changed since the previous version is considered new code.  
Recommended for projects following regular versions or releases.

Define a specific setting for this project

Previous version  
Any code that has changed since the previous version is considered new code.  
Recommended for projects following regular versions or releases.

Number of days  
Any code that has changed in the last x days is considered new code. If no action is taken on a new issue after x days, this issue will become part of the overall code.  
Recommended for projects following continuous delivery.

Reference branch  
Choose a branch as the baseline for the new code.  
Recommended for projects using feature branches.

3. Step 3: On clicking on create project, we go to Analyze project where we can generate a token, click on generate  
Screenshot 3:

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The image contains two side-by-side screenshots of the SonarQube Community web interface. Both screenshots show the 'Analyze your project' page for a project named 'Mock'.

**Screenshot 1 (Top):** This screenshot shows the initial step of generating a token. It includes fields for 'Token name' (set to 'Analyze "Mock"'), 'Expires in' (set to '30 days'), and a 'Generate' button. A note below explains that the token is specific to the current project and can be revoked from the user account if compromised.

**Screenshot 2 (Bottom):** This screenshot shows the token has been generated. The token value 'Analyze "Mock": sqp\_e8ddcc744040249a5815de50b9cc1ebdb73632d' is displayed, along with a note about its purpose and a 'Continue' button.

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| Duration: One Hour   |                  |

4. Step 4: After a token is generated click on continue, in run analysis click on other and then on windows and copy the command u get.

Screenshot 4:

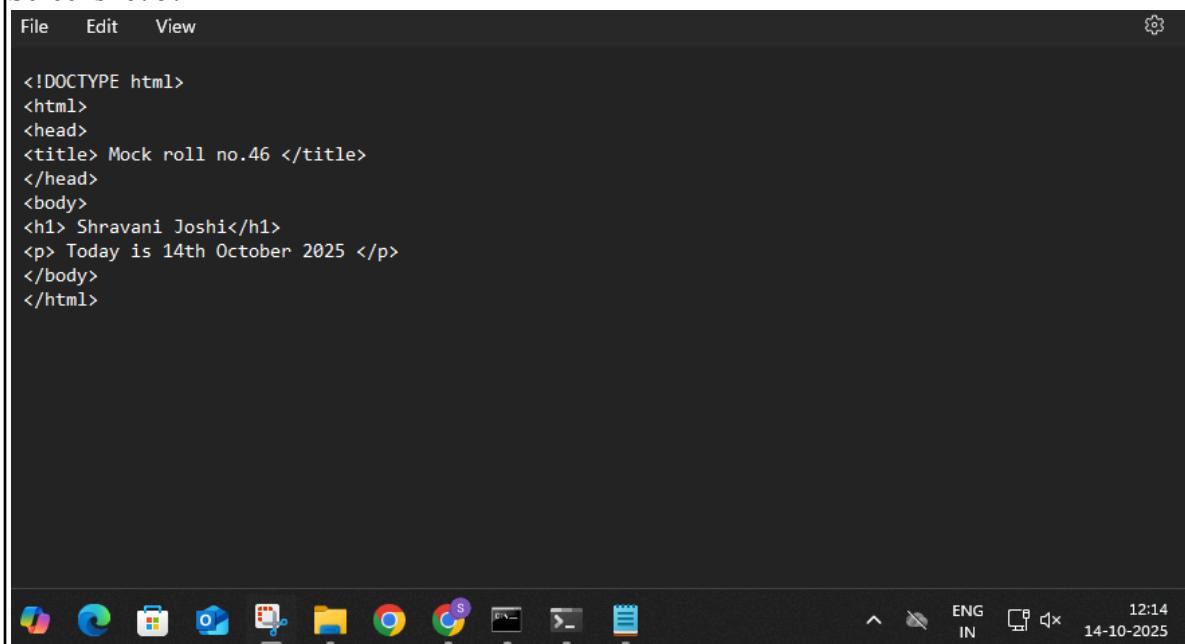
The screenshot shows the SonarQube community interface. The top navigation bar includes 'Projects', 'Issues', 'Rules', 'Quality Profiles', 'Quality Gates', 'Administration', and 'More'. Below the navigation, there are tabs for 'Mock' (selected), 'Bind project', and a dropdown for 'main'. The main content area has tabs for 'Overview', 'Issues', 'Security Hotspots', 'Code', 'Measures', and 'Activity'. A sub-menu on the right shows 'Project Settings' and 'Project Information'. The central part of the screen is titled '2 Run analysis on your project'. It asks 'What option best describes your project?' with buttons for 'Maven', 'Gradle', 'JS/TS & Web', '.NET', 'Python', and 'Other (for Go, PHP, ...)'. It also asks 'What is your OS?' with buttons for 'Linux', 'Windows' (selected), and 'macOS'. Below these, a section titled 'Download and unzip the Scanner for Windows' provides a command line instruction: 'sonar-scanner.bat -Dsonar.projectKey=Mock" -Dsonar.sources=." -Dsonar.host.url=http://localhost:9000" -Dsonar.token=sqpe8ddcc744040249a5815de50b9cc1ebdb73632d"'. A 'Copy' button is located to the right of the command. At the bottom, it says 'Please visit the [official documentation of the Scanner](#) for more details.' The taskbar at the bottom of the window shows the date as 14-10.

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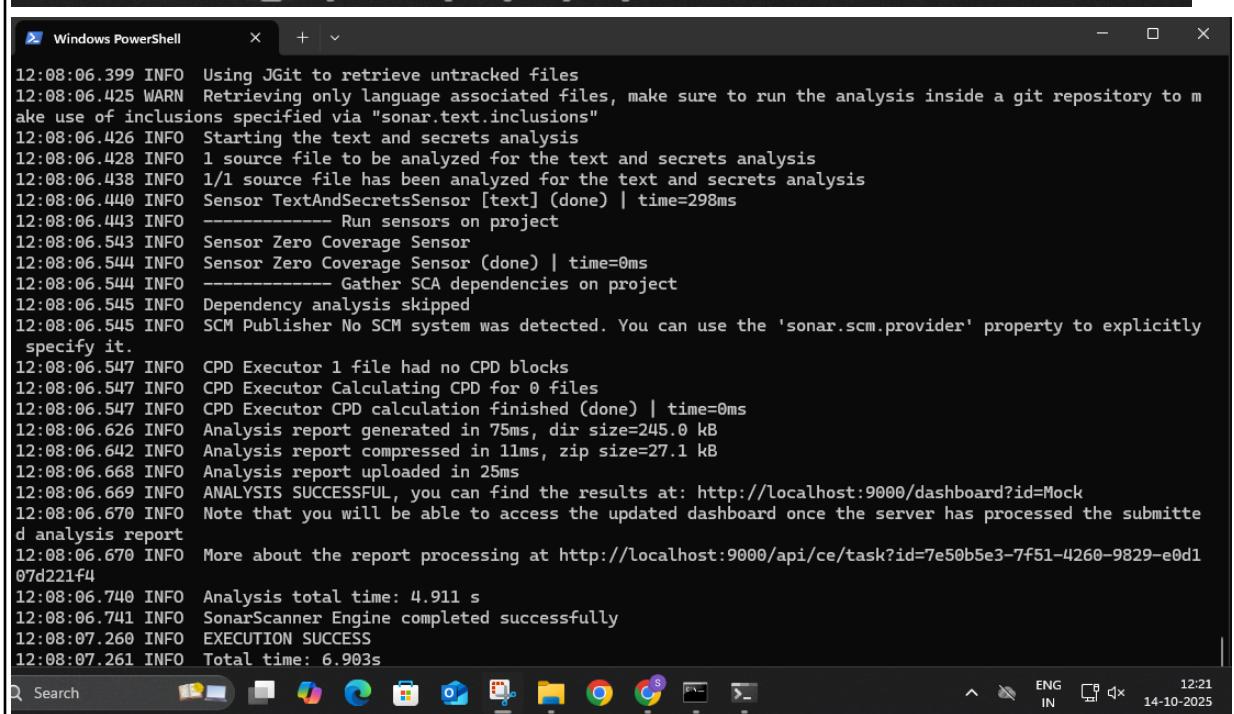
|                      |                  |
|----------------------|------------------|
| Name: Shravani Joshi | Date: 14/10/2025 |
| Class: TEITA         | Exam seat no:    |
| PID: 231049          | Time:            |
| Roll No: 46          | No. of Pages: 12 |
| Duration: One Hour   |                  |

5. Step 5 : After that create a folder in C drive and add a file with html code in it, right click on the folder and open in terminal and run the command we copied.

Screenshot 5:



```
<!DOCTYPE html>
<html>
<head>
<title> Mock roll no.46 </title>
</head>
<body>
<h1> Shravani Joshi</h1>
<p> Today is 14th October 2025 </p>
</body>
</html>
```

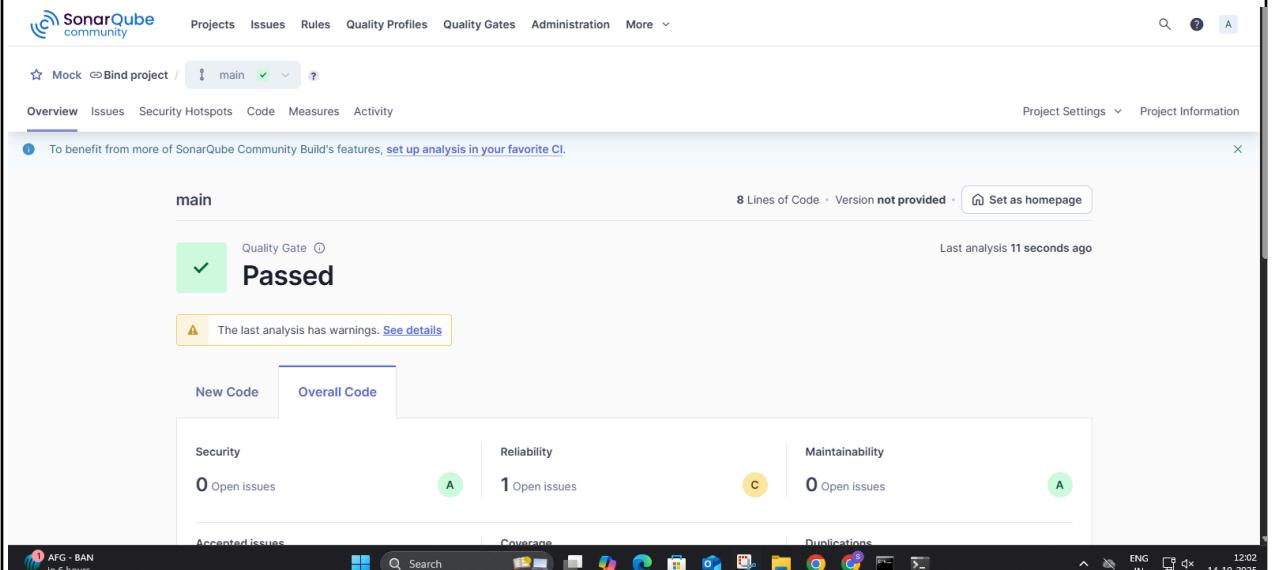


```
12:08:06.399 INFO  Using JGit to retrieve untracked files
12:08:06.425 WARN  Retrieving only language associated files, make sure to run the analysis inside a git repository to make use of inclusions specified via "sonar.text.inclusions"
12:08:06.426 INFO  Starting the text and secrets analysis
12:08:06.428 INFO  1 source file to be analyzed for the text and secrets analysis
12:08:06.438 INFO  1/1 source file has been analyzed for the text and secrets analysis
12:08:06.440 INFO  Sensor TextAndSecretsSensor [text] (done) | time=298ms
12:08:06.443 INFO  ----- Run sensors on project
12:08:06.543 INFO  Sensor Zero Coverage Sensor
12:08:06.544 INFO  Sensor Zero Coverage Sensor (done) | time=0ms
12:08:06.544 INFO  ----- Gather SCA dependencies on project
12:08:06.545 INFO  Dependency analysis skipped
12:08:06.545 INFO  SCM Publisher No SCM system was detected. You can use the 'sonar.scm.provider' property to explicitly specify it.
12:08:06.547 INFO  CPD Executor 1 file had no CPD blocks
12:08:06.547 INFO  CPD Executor Calculating CPD for 0 files
12:08:06.547 INFO  CPD Executor CPD calculation finished (done) | time=0ms
12:08:06.626 INFO  Analysis report generated in 75ms, dir size=245.0 kB
12:08:06.642 INFO  Analysis report compressed in 11ms, zip size=27.1 kB
12:08:06.668 INFO  Analysis report uploaded in 25ms
12:08:06.669 INFO  ANALYSIS SUCCESSFUL, you can find the results at: http://localhost:9000/dashboard?id=Mock
12:08:06.670 INFO  Note that you will be able to access the updated dashboard once the server has processed the submitted analysis report
12:08:06.670 INFO  More about the report processing at http://localhost:9000/api/ce/task?id=7e50b5e3-7f51-4260-9829-e0d107d221f4
12:08:06.740 INFO  Analysis total time: 4.911 s
12:08:06.741 INFO  SonarScanner Engine completed successfully
12:08:07.260 INFO  EXECUTION SUCCESS
12:08:07.261 INFO  Total time: 6.903s
```

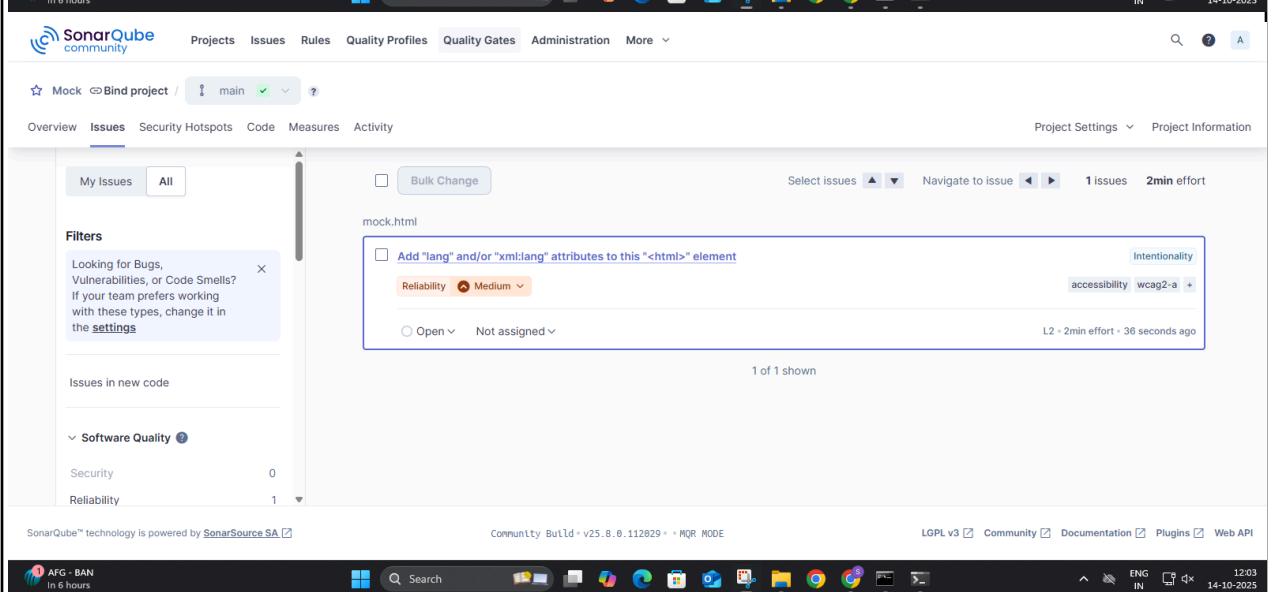
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| Duration: One Hour   |                  |

6. Step 6: After Execution success is seen, check SonarQube for the result. You can see passed Screenshot 6:



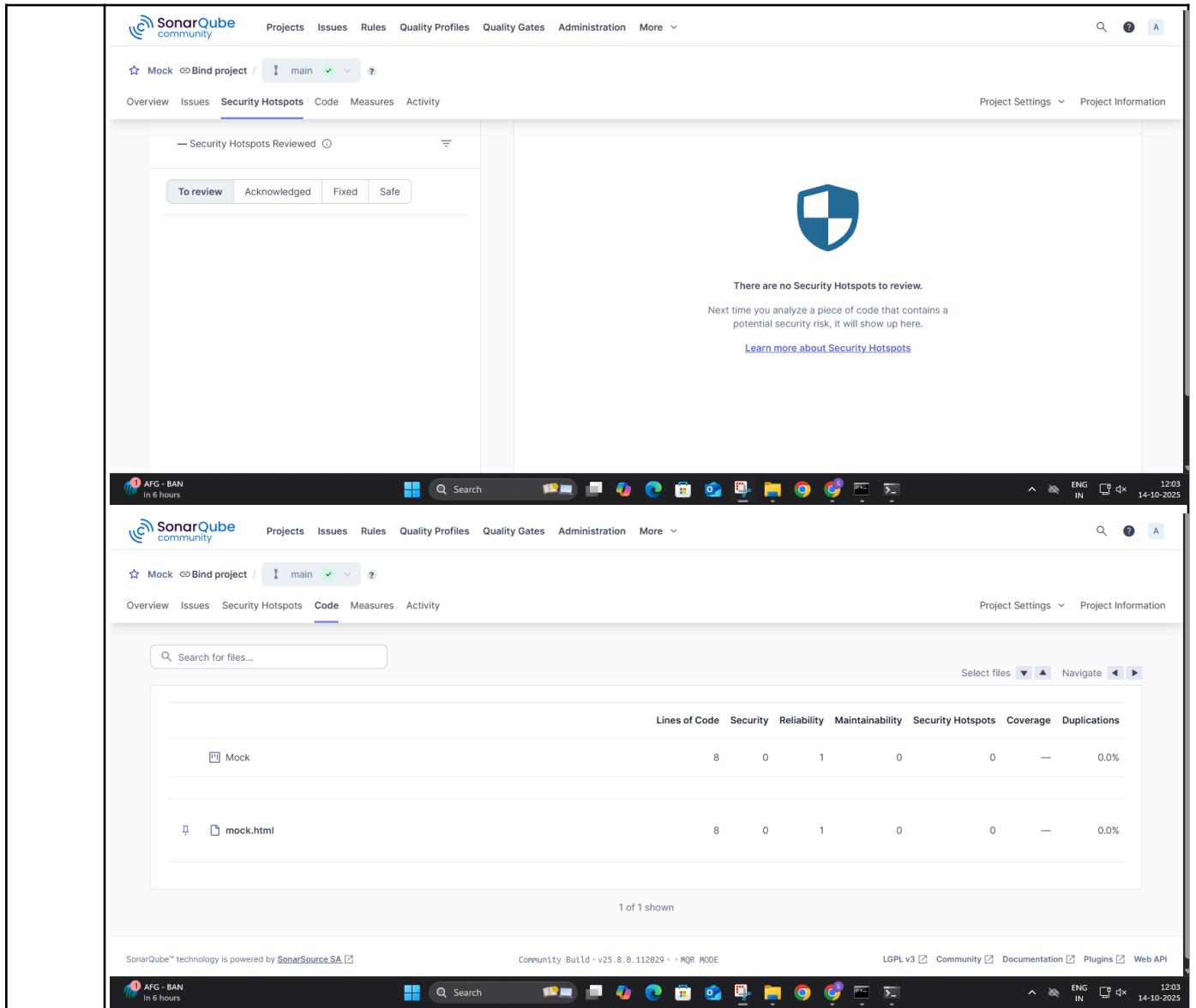
The screenshot shows the SonarQube main dashboard for the 'main' project. The status is 'Passed' with a green checkmark icon. It displays 8 Lines of Code and a Version not provided. The last analysis was 11 seconds ago. Below this, there are three cards: Security (0 Open issues), Reliability (1 Open issue), and Maintainability (0 Open issues). A message at the bottom left says 'The last analysis has warnings. See details'.

The screenshot shows the SonarQube Issues page for the 'main' project. It lists one issue: 'Add "lang" and/or "xml:lang" attributes to this "<html>" element' in 'mock.html'. The issue is categorized as 'Reliability' with a medium priority. It is marked as 'Open' and 'Not assigned'. The issue was created 36 seconds ago with a 2min effort. The page also shows filters for Bugs, Vulnerabilities, or Code Smells, and sections for Software Quality, Security, and Reliability.

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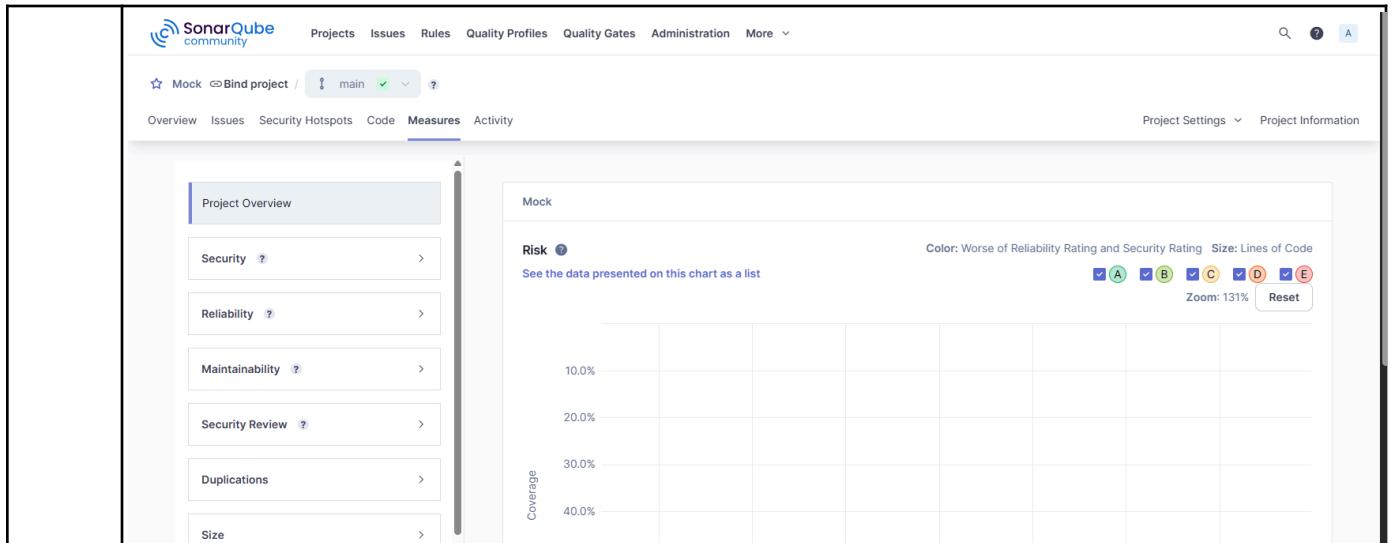
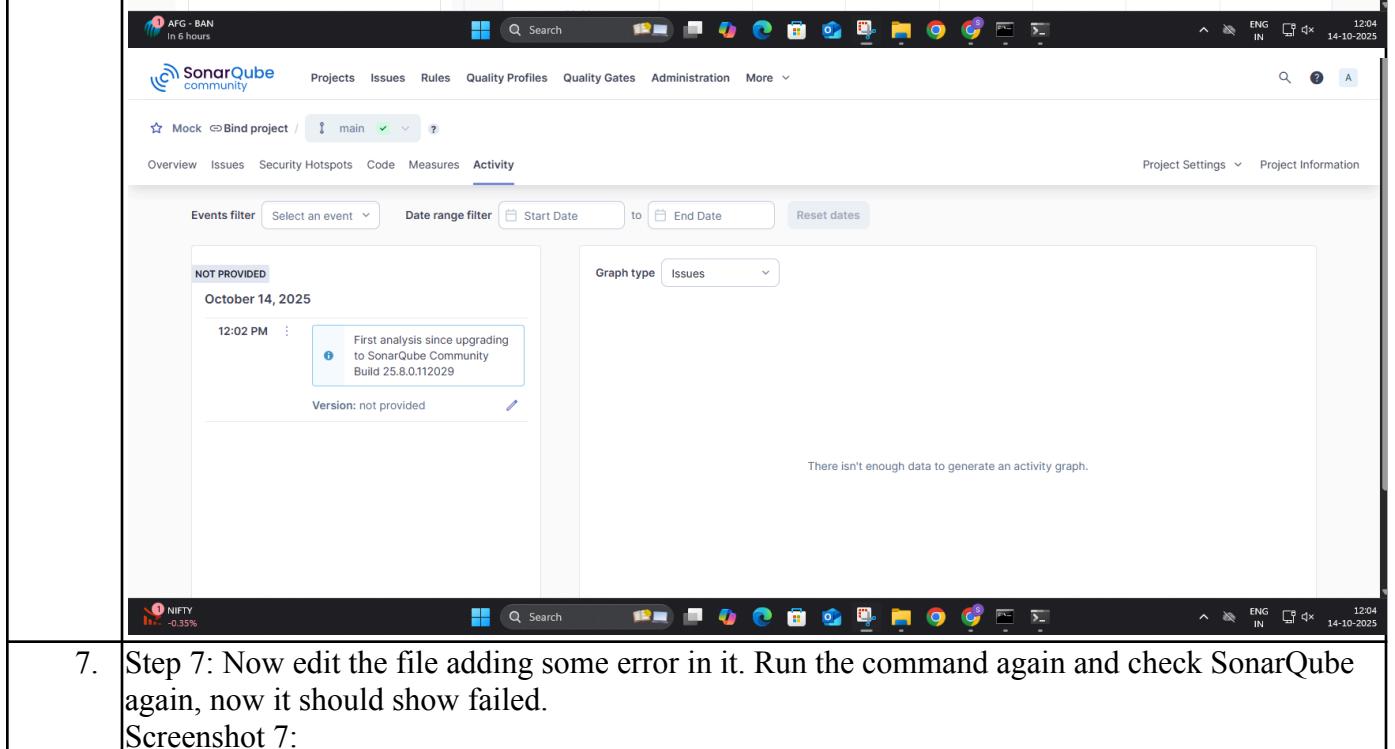


The image shows two screenshots of the SonarQube web interface. The top screenshot displays the 'Security Hotspots' page for the 'Mock' project. It indicates 'There are no Security Hotspots to review.' A large blue shield icon is prominently displayed. The bottom screenshot shows the 'Code' analysis results for the same project. It lists two files: 'Mock' and 'mock.html'. The 'Mock' file has 8 lines of code, 0 security issues, 1 reliability issue, 0 maintainability issues, 0 security hotspots, 0 coverage, and 0 duplications. The 'mock.html' file has similar metrics. Both screenshots include a navigation bar at the top with links like 'Projects', 'Issues', 'Rules', etc., and a taskbar at the bottom.

| File      | Lines of Code | Security | Reliability | Maintainability | Security Hotspots | Coverage | Duplications |
|-----------|---------------|----------|-------------|-----------------|-------------------|----------|--------------|
| Mock      | 8             | 0        | 1           | 0               | 0                 | —        | 0.0%         |
| mock.html | 8             | 0        | 1           | 0               | 0                 | —        | 0.0%         |

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| Duration: One Hour   |                  |

|   |   |
|---|---|
|  <p>The screenshot shows the SonarQube interface for the 'Mock' project. On the left, there's a sidebar with 'Project Overview' sections for Security, Reliability, Maintainability, Security Review, Duplications, and Size. The main area is titled 'Mock' and displays a 'Risk' chart. The chart has 'Coverage' on the y-axis (10.0% to 40.0%) and 'Risk' on the x-axis. A legend indicates colors for reliability and security ratings, with categories A through E represented by colored circles. A tooltip for category A says 'Color: Worse of Reliability Rating and Security Rating'. Below the chart, it says 'Size: Lines of Code' and 'Zoom: 131%'.</p> |  <p>The screenshot shows the SonarQube interface for the 'Mock' project, specifically the 'Activity' tab. It features an 'Events filter' section with a dropdown for 'Select an event' and date range filters for 'Start Date' and 'End Date'. Below this is a log entry for 'October 14, 2025' at '12:02 PM'. The entry says: 'First analysis since upgrading to SonarQube Community Build 25.8.0.112029'. There is also a note: 'Version: not provided'. To the right, there's a 'Graph type' dropdown set to 'Issues'. A message at the bottom states: 'There isn't enough data to generate an activity graph.' The task number '7.' is visible at the bottom left of this screenshot.</p> |
| <p>7. Step 7: Now edit the file adding some error in it. Run the command again and check SonarQube again, now it should show failed.<br/>         Screenshot 7:</p>   |   |

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| Roll No: 46          | No. of Pages: 12 |
| Duration: One Hour   |                  |

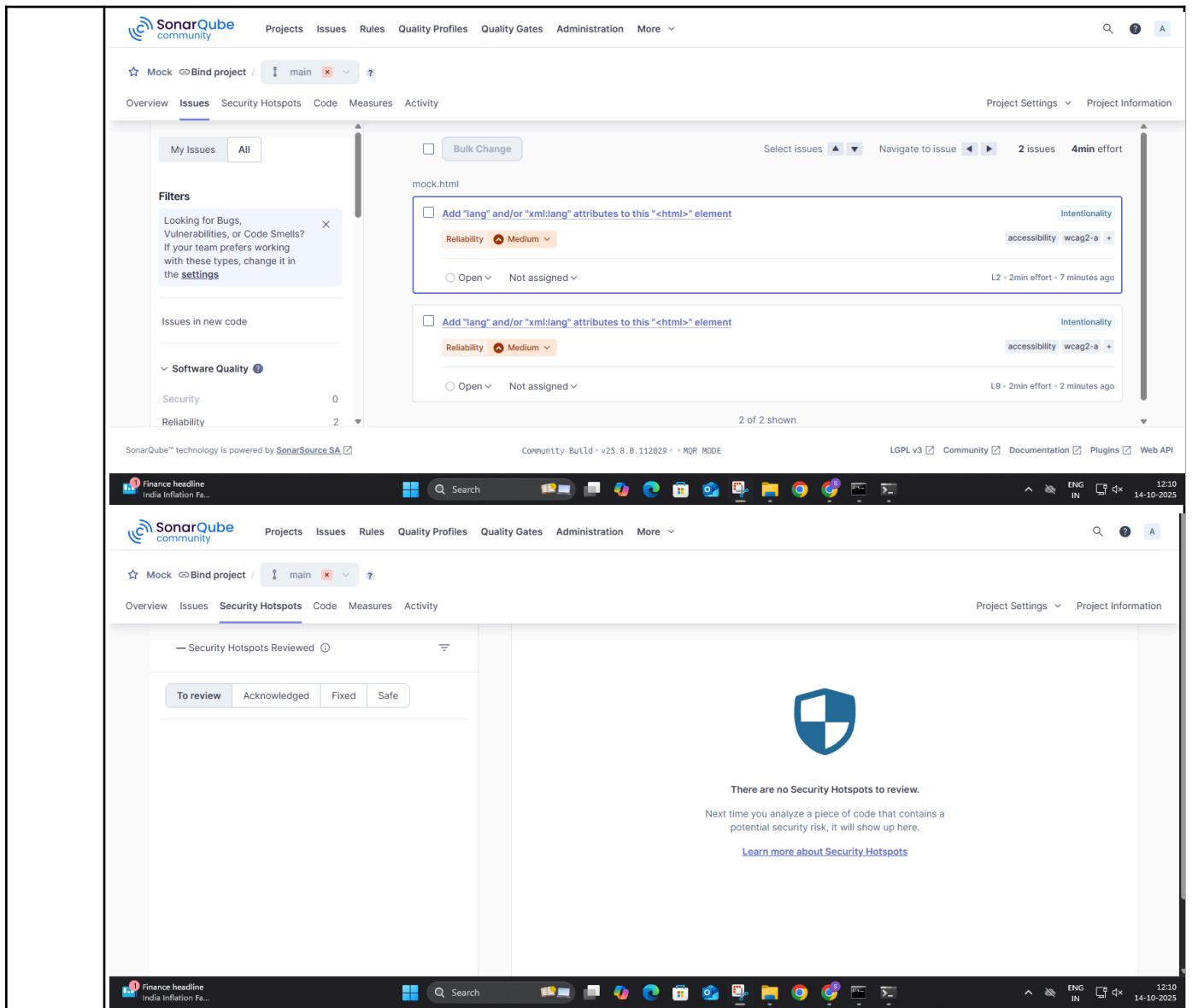
The screenshot shows a Windows desktop environment with a dark theme. At the top, there's a file menu with options like File, Edit, View, and a gear icon. Below the menu, a code editor window displays the following HTML code:

```
<!DOCTYPE html>
<html>
<head>
<title> Mock roll no.46 </title>
<body>
<h1> Shravani Joshi</h1>
<p> Today is 14th October 2025 </p>
</body>
</html>
```

The taskbar at the bottom of the screen shows various pinned icons, including Microsoft Edge, File Explorer, and several system icons. The system tray indicates the date as 14-10-2025 and the time as 12:14. In the center of the screen, a web browser is open to the SonarQube community website. The URL bar shows "Mock Bind project / main". The page header includes links for Projects, Issues, Rules, Quality Profiles, Quality Gates, Administration, and More. A prominent message box at the top says "Don't let issues accumulate. Discover 'Clean as You Code!' Learn how to improve your code base by cleaning only new code." with buttons for "Take the Tour" and "Not now". Below this, a large red "Failed" status is displayed next to a "Quality Gate" icon. A warning message states "The last analysis has warnings. See details". The analysis summary shows "New Code 1 failed" and "Overall Code". At the bottom, it says "New Code Since October 14, 2025 Started 5 minutes ago" and "1 condition failed". The SonarQube navigation bar at the bottom includes Project Settings, Project Information, and other links. The taskbar at the very bottom also shows the date and time as 14-10-2025 and 12:08.

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| PID: 231049          | Time:            |
| Roll No: 46          | No. of Pages: 12 |
| Duration: One Hour   |                  |



The screenshot displays two separate instances of the SonarQube web application running side-by-side.

**Top Instance (Issues View):**

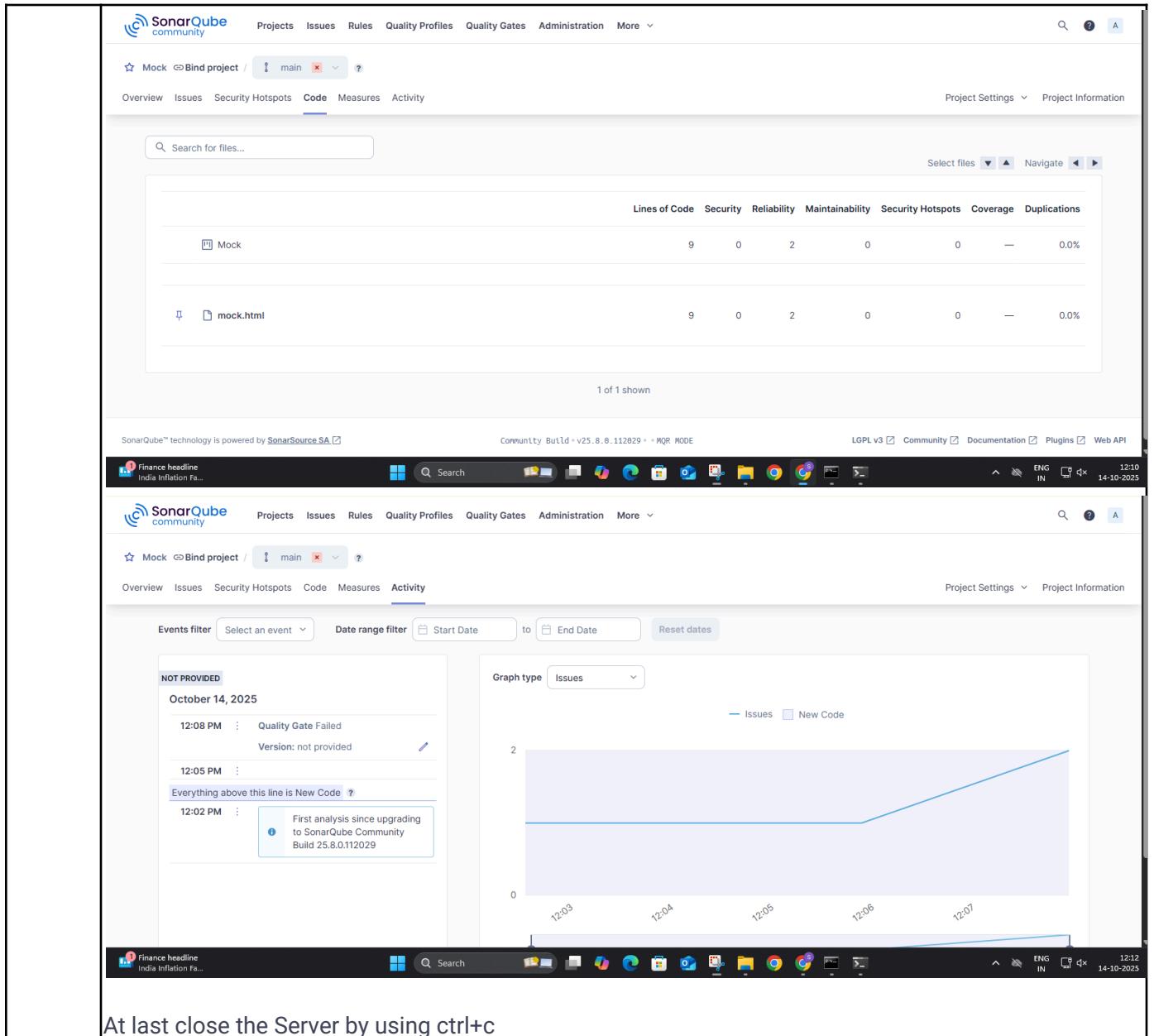
- Header:** SonarQube community, Mock Bind project / main.
- Navigation:** Overview, Issues, Security Hotspots, Code, Measures, Activity.
- Filters:** My Issues, All.
- Issues List:**
  - mock.html
    - Add "lang" and/or "xml:lang" attributes to this "<html>" element (Reliability: Medium, Intentionality: accessibility wcag2-a)
    - Add "lang" and/or "xml:lang" attributes to this "<html>" element (Reliability: Medium, Intentionality: accessibility wcag2-a)
- Bottom:** 2 of 2 shown, GPL V3, Community, Documentation, Plugins, Web API.

**Bottom Instance (Security Hotspots View):**

- Header:** SonarQube community, Mock Bind project / main.
- Navigation:** Overview, Issues, Security Hotspots, Code, Measures, Activity.
- Filters:** Security Hotspots Reviewed.
- Status Buttons:** To review, Acknowledged, Fixed, Safe.
- Icon:** A blue shield icon with a white cross.
- Text:** There are no Security Hotspots to review.
- Bottom:** Learn more about Security Hotspots, GPL V3, Community, Documentation, Plugins, Web API.

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| Roll No: 46          | No. of Pages: 12 |
| Duration: One Hour   |                  |



The screenshot displays two stacked instances of the SonarQube web application.

**Top Window (Code Analysis):**

- Header:** SonarQube community, Mock Bind project / main
- Navigation:** Overview, Issues, Security Hotspots, **Code**, Measures, Activity
- Search Bar:** Search for files...
- Table:**|  | Lines of Code | Security | Reliability | Maintainability | Security Hotspots | Coverage | Duplications |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Mock | 9 | 0 | 2 | 0 | 0 | — | 0.0% |
| mock.html | 9 | 0 | 2 | 0 | 0 | — | 0.0% |

1 of 1 shown

SonarQube™ technology is powered by SonarSource SA Community Build v25.8.0.112029 + MQR MODE LGPL v3 Community Documentation Plugins Web API

**Bottom Window (Activity Log):**

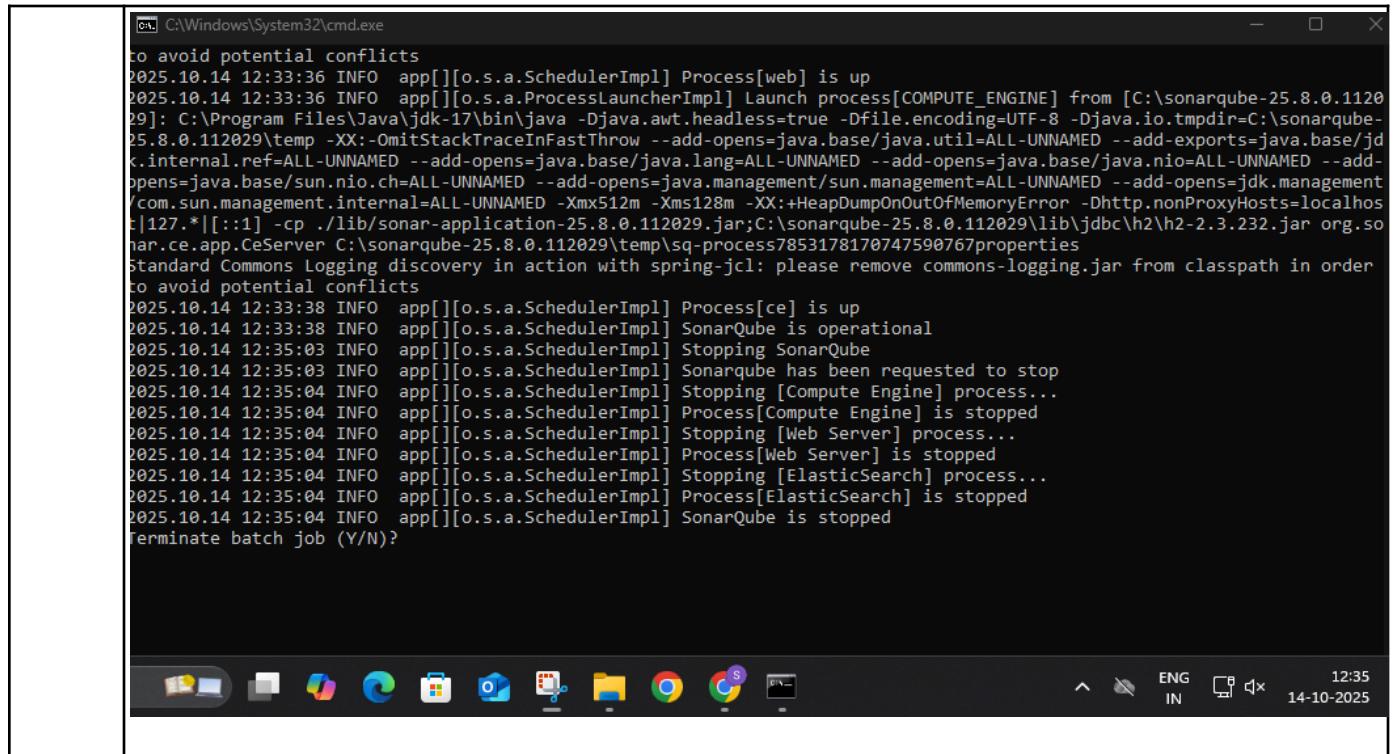
  - Header:** SonarQube community, Mock Bind project / main
  - Navigation:** Overview, Issues, Security Hotspots, Code, Measures, **Activity**
  - Events filter:** Select an event, Date range filter, Start Date, End Date, Reset dates
  - Log:**
    - NOT PROVIDED
    - October 14, 2025
    - 12:08 PM : Quality Gate Failed  
Version: not provided
    - 12:05 PM :
    - Everything above this line is New Code ?
    - 12:02 PM : First analysis since upgrading to SonarQube Community Build 25.8.0.112029
  - Graph:** Graph type: Issues, Issues vs. New Code over time (12:03 to 12:07).

Finance headline India Inflation Fa... Search ENG IN 12:10 14-10-2025

**Bottom Text:** At last close the Server by using ctrl+c

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| PID: 231049          | Time:            |
| Roll No: 46          | No. of Pages:12  |
| Duration: One Hour   |                  |



The screenshot shows a Windows Command Prompt window titled 'cmd.exe' with the path 'C:\Windows\System32\cmd.exe'. The window displays a log of SonarQube shutdown operations. The logs indicate the process of stopping various services: Compute Engine, Web Server, and ElasticSearch. The output is as follows:

```
C:\Windows\System32\cmd.exe
to avoid potential conflicts
2025.10.14 12:33:36 INFO app[] [o.s.a.SchedulerImpl] Process[web] is up
2025.10.14 12:33:36 INFO app[] [o.s.a.ProcessLauncherImpl] Launch process[COMPUTE_ENGINE] from [C:\sonarqube-25.8.0.112029]
2025.10.14 12:33:36 INFO app[] [o.s.a.ProcessLauncherImpl] C:\Program Files\Java\jdk-17\bin\java -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Djava.io.tmpdir=C:\sonarqube-25.8.0.112029\temp -XX:-OmitStackTraceInFastThrow --add-opens=java.base/java.util=ALL-UNNAMED --add-exports=java.base/java.k.internal.ref=ALL-UNNAMED --add-opens=java.base/java.lang=ALL-UNNAMED --add-opens=java.base/java.nio=ALL-UNNAMED --add-opens=java.base/sun.nio.ch=ALL-UNNAMED --add-opens=java.management/sun.management=ALL-UNNAMED --add-opens=jdk.management/com.sun.management/internal=ALL-UNNAMED -Xmx512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -Dhttp.nonProxyHosts=localhos
t|127.*|[::1] -cp ./lib/sonar-application-25.8.0.112029.jar;C:\sonarqube-25.8.0.112029\lib\jdbc\h2\h2-2.3.232.jar org.sonar.ce.app.CeServer C:\sonarqube-25.8.0.112029\temp\sq-process7853178170747590767properties
Standard Commons Logging discovery in action with spring-jcl: please remove commons-logging.jar from classpath in order to avoid potential conflicts
2025.10.14 12:33:38 INFO app[] [o.s.a.SchedulerImpl] Process[ce] is up
2025.10.14 12:33:38 INFO app[] [o.s.a.SchedulerImpl] SonarQube is operational
2025.10.14 12:35:03 INFO app[] [o.s.a.SchedulerImpl] Stopping SonarQube
2025.10.14 12:35:03 INFO app[] [o.s.a.SchedulerImpl] Sonarqube has been requested to stop
2025.10.14 12:35:04 INFO app[] [o.s.a.SchedulerImpl] Stopping [Compute Engine] process...
2025.10.14 12:35:04 INFO app[] [o.s.a.SchedulerImpl] Process[Compute Engine] is stopped
2025.10.14 12:35:04 INFO app[] [o.s.a.SchedulerImpl] Stopping [Web Server] process...
2025.10.14 12:35:04 INFO app[] [o.s.a.SchedulerImpl] Process[Web Server] is stopped
2025.10.14 12:35:04 INFO app[] [o.s.a.SchedulerImpl] Stopping [ElasticSearch] process...
2025.10.14 12:35:04 INFO app[] [o.s.a.SchedulerImpl] Process[ElasticSearch] is stopped
2025.10.14 12:35:04 INFO app[] [o.s.a.SchedulerImpl] SonarQube is stopped
Terminate batch job (Y/N)?
```

The taskbar at the bottom of the window shows various icons for applications like File Explorer, Task View, and Google Chrome. The system tray indicates the date as 14-10-2025 and the time as 12:35.