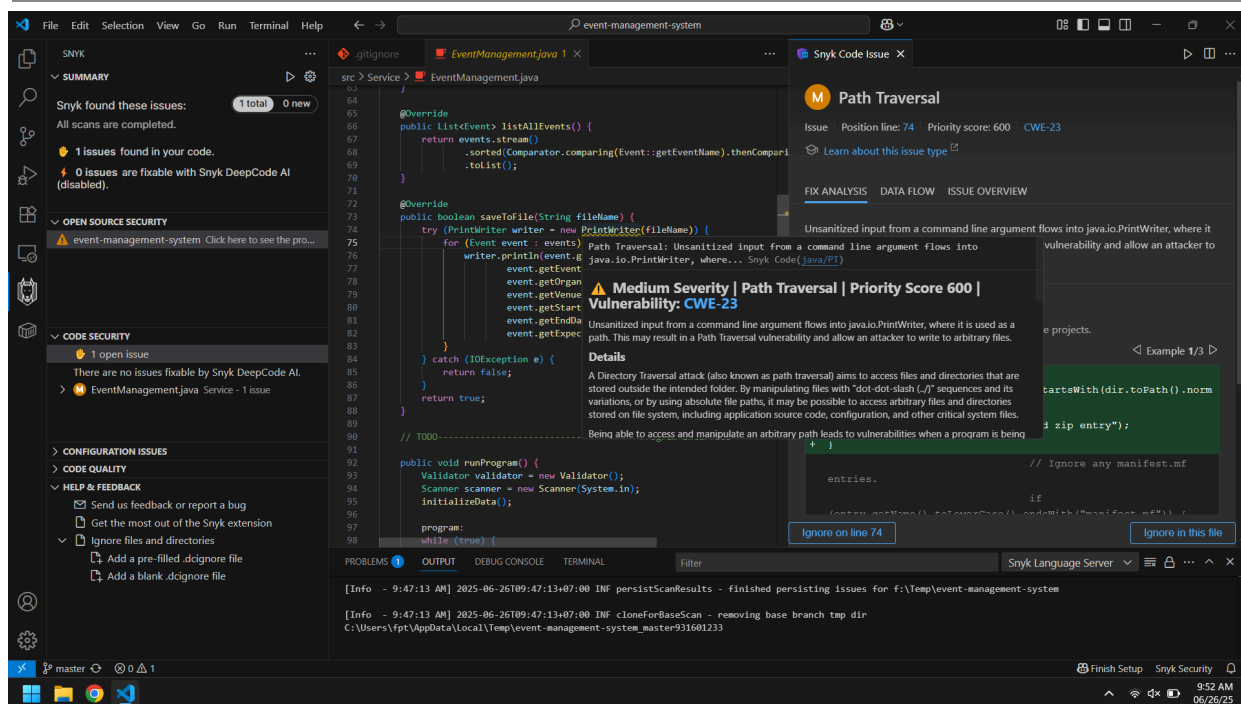


## Snyk Security Report.



Snyk reported a Medium Severity issue with **PrintWriter** on line 74 (initially).

A little foreword, I am not very familiar with this issue. However, I believe that I have implemented the correct security measures (with the help of ChatGPT) to prevent the issue from happening.

**Initial issue:** The current PrintWriter implementation allows one to write to any files with file paths provided in fileName.

- For example, an expected entry would be 'SuperEver' to write to 'SuperEvent.csv'.
- A malicious or unintended entry could be '.././.././env' to write to environment variables found through that relative path.

**Resolution:** I have rewritten the file-writing logic to restrict all writes to just a default directory "data" in this case. This ensured that all file-writing happens within the `data/` folder. And inputs containing `../` are normalized and caught, preventing any escape from the base directory.

No further issue is reported after these changes.

The resolution is within the comments below (line 74 - 81) and some changes to handle file-creation logic (line 83).

SNYK

SUMMARY

Snyk found these issues:  
All scans are completed.

0 total0 new

0 issues found in your code.

0 issues are fixable with Snyk DeepCode AI (disabled).

OPEN SOURCE SECURITY

✔ Congrats! No issues found!

CODE SECURITY

✔ Congrats! No open issues found!

Adjust your settings to view Ignored issues.

CONFIGURATION ISSUES

CODE QUALITY

HELP & FEEDBACK

☐ Send us feedback or report a bug

☐ Get the most out of the Snyk extension

☐ Ignore files and directories

☐ Add a pre-filled .dignore file

☐ Add a blank .dignore file

gitignore

EventManager.java M X

```
src > Service > EventManagement.java
59     return events.stream()
60         .filter(event -> event.getId() == id)
61         .findFirst()
62         .orElse(null);
63     }
64 }
65
66 @Override
67 public List<Event> listAllEvents() {
68     return events.stream()
69         .sorted(Comparator.comparing(Event::getName).thenComparing(Event::getId))
70         .toList();
71 }
72
73 @Override
74 public boolean saveToFile(String fileName) {
75     // TODO:-----Snykai Security Patch/-----
76     Path baseDirectory = Paths.get("data").toAbsolutePath().normalize();
77     Path targetPath = baseDirectory.resolve(fileName).normalize();
78
79     if (!targetPath.startsWith(baseDirectory)) {
80         return false;
81     }
82     // TODO:-----Snykai Security Patch/-----
83     try {
84         Files.createDirectories(baseDirectory);
85         try (PrintWriter writer = new PrintWriter(targetPath.toFile())) {
86             for (Event event : events) {
87                 writer.println(event.getId() + "," +
88                     event.getName() + "," +
89                     event.getOrganizerId() + "," +
90                     event.getVenueId() + "," +
91                     event.getStartDate() + "," +
92                     event.getEndDate() + "," +
93                     event.getExpectedAttendees());
94             }
95         }
96     }
97 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

Filter

Snyk Language Server

[Info - 10:05:44 AM] 2025-06-26T10:05:44+07:00 INF registerNotifier - sending scan data to client product-code status-success

[Info - 10:05:44 AM] 2025-06-26T10:05:44+07:00 INF ide.workspace.folder.DelegatingConcurrentScanner-Scanfile - Scanning f:\Temp\event-management-system\src\Service\EventManagement.java with \*code.Scanner: COMPLETE found 0 issues deltaScanType=WorkingDirectory scanSource=IDE

master\*

Not Committed Yet

Ln 82, Col 10

Spaces: 4

UTF-8

CRLF

{}

Java

Finish Setup

Snyk Security

Prettier

10:05 AM

06/26/25