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RCE via stored XSS in note export rendering

Critical thecodrr published [GHSA-fjm8-jg78-89h4](#) last week

Package

Notesnook Web/Desktop ([Notesnook](#))

Affected versions

< 3.3.15

Patched versions

>= 3.3.15

Notesnook iOS/Android ([Notesnook](#))

< 3.3.20

>= 3.3.20

Description

Summary

A stored XSS in the note export flow can be escalated to remote code execution in the desktop app.

The root cause is that exported note fields such as `title`, `headline`, and `content` are inserted into the generated HTML template without HTML escaping. When the note is later exported to PDF, Notesnook renders that HTML into a same-origin, unsandboxed iframe using `iframe.srcdoc = ...`. Injected script executes in the Notesnook origin. In the desktop app, this becomes RCE because Electron is configured with `nodeIntegration: true` and `contextIsolation: false`.

Details

The export flow embeds note-controlled data into an HTML template without escaping:

- `packages/core/src/collections/notes.ts:416`
 - `notes.export()` passes note data into the HTML template builder.
- `packages/core/src/utils/templates/html/template.ts:31`
 - `headline` is interpolated into a meta tag.
- `packages/core/src/utils/templates/html/template.ts:33`
 - `title` is interpolated into `<title>`.

- `packages/core/src/utils/templates/html/template.ts:210`
 - `title` is interpolated into `<h1>`.
- `packages/core/src/utils/templates/html/template.ts:211`
 - `content` is interpolated directly into the HTML body.

The exported HTML is then rendered for PDF generation through an unsandboxed `iframe.srcdoc`:

- `apps/web/src/common/export.ts:40`
 - `exportToPDF()` creates an `iframe` and sets `iframe.srcdoc = content`.
 - No `sandbox` attribute is applied.

The data path from note content into exported HTML is reachable through the normal export flow:

- `packages/common/src/utils/export-notes.ts:219`
 - exported note content is prepared and passed into `database.notes.export()`.

On desktop, this becomes code execution because the main renderer is intentionally Node-enabled:

- `apps/desktop/src/main.ts:126`
 - `nodeIntegration: true`
 - `contextIsolation: false`
 - `nodeIntegrationInWorker: true`

Because `srcdoc` inherits the parent origin, JavaScript running inside the exported `iframe` can call:

```
parent.require("fs")
and use Node primitives such as fs, child_process, etc.
```



This means the vulnerability is not just stored XSS in exported HTML; in Notesnook Deskt

Details

_Give all details on the vulnerability. Pointing to the incriminated source code is very

PoC

1. The attacker prepares a malicious note title containing HTML/JavaScript. For example:

```
```html
</h1><script>const fs=parent.require("fs");const os=parent.require("os");const path=
The attacker gets this note into the victim's Notesnook account. This can happen through

The victim opens the malicious note in Notesnook.
```

The victim exports the note as PDF.

During export, Notesnook converts the note into HTML and inserts attacker-controlled file  
Notesnook then renders the generated export HTML into a same-origin `iframe` using `iframe`.

Because the `iframe` is not sandboxed, the injected script executes in the Notesnook rende

In the desktop app, Electron is configured with `nodeIntegration: true` and `contextIsolati`

This allows the attacker to execute arbitrary local code in the victim's desktop app con  
**Expected** result:

```

const { exec } = parent.require('child_process');
exec('calc.exe', (error) => {
 if (error) console.log('Error:', error);
});
document.body.insertAdjacentHTML('beforeend', '<p id="executed" style="color:red;font-si
</script>
```

Set the body to any benign text, for example: test.

Export the note as PDF.

Check whether the following calc open

```
Learn more about base metrics | |

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:C/C:H/I:H/A:H

CVE ID

CVE-2026-42090

Weaknesses

- ▶ CWE-79
- ▶ CWE-94


Credits

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Reporter

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Remediation developer

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Remediation verifier