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fix: HTML-escape all user data in slide generator to prevent stored XSS #274



[TemaDeveloper](#) wants to merge 1 commit into `nextlevelbuilder:main` from `TemaDeveloper:fix/slide-generator...`



Conversation 0



Commits 1



Checks 0



Files changed 1



[TemaDeveloper](#) commented [last week](#)

Summary

Fixes the **Stored XSS vulnerability** (CVSS 8.1) in `generate-slide.py` reported in [#247](#).

- **HTML-escape all 46 `data.get()` calls** across all 7 slide generator functions using `html.escape()` — prevents `<script>`, ``, and `<iframe>` injection into generated HTML
- **Add URL scheme validation** for `cta_url` in the CTA slide — blocks `javascript:` URI injection by only allowing `http://`, `https://`, `#`, and `/` schemes
- **Escape the deck `<title>`** in the template rendering to prevent metadata injection
- **Cast bar chart `value` to `int()`** in the style attribute to prevent CSS injection via the `height` property

Approach

Added two small helpers at the top of the file:

- `_e(value, default)` — wraps `html.escape(str(...))` for all content injection points
- `_safe_url(url, default)` — validates URL scheme before escaping for `href` attributes

Testing

Verified with the exact PoC payload from [#247](#):

- `<script>alert('XSS')</script>` in title → rendered as escaped text
- `` in badge → rendered as escaped text
- `javascript:alert(document.domain)` in `cta_url` → replaced with `#`

- Normal slide content (demo deck) renders identically — no regressions

Closes [#247](#)



[fix: HTML-escape all user data in slide generator to prevent XSS](#) ...

[396e9dd](#)

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Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

 [Slide Generator Multiple Stored XSS](#)

1 participant

