

# Add <a href=> into our name and bypass "//" being used in URL to create a valid URL + custom image on snippets

HackerOne report #460224 by zseano on 2018-12-11:

Summary: For some reason GitLab allow for certain HTML tags in our name which renders when we visit a snippet. Using this we can actually trick the user into visiting our URL when they click our username.

Description: When setting your name, using <a href=>> will render a valid link, except using <a href=https://www.evilsite.com/Rogt.hi&it\_/a> will not work.

However if we use <a href=https:\evilsite.com>notsean</a>, it allows it through and we get this result. The use of \i is important since / is filtered.



If a user is to click onto my name to visit my profile, they will actually be redirected to my site instead. To see it in action, visit https://gitlab.com/snippets/1788795 and check out my comment from my account @notsean\_ hover over my profile and you'll see it redirects to evidite com

We can then be a bit more clever and add an image icon, add the "title" attribute, and we can build a perfect phisher to either harvest their credentials, OR redirect to a Gitlab Oauth application and gain access via that (users are more likely to just click ALLOW, especially if they think they will get some VIP unorate "DI unorate".

#### Steps To Reproduce:

(Add details for how we can reproduce the issue)

- Visit your GitLab account settings and set your name to < a href-http:\\ev!lste.com&gt;notsean &lt;img src="https:\\www.bugbountynotes.com\assets\img\vip.png" title="VIP Usen"></a&gt; - Replace notsean with your username to look real
- 2. Go comment on a snippet and people will see a "VIP" badge next to your name, hover over it will show "VIP User", and clicking it will redirect to our site. The perfect scenario for an attacker!:)



## Impact

Add custom HTML to our name and trick user into handing over their credentials or giving us access to their gitlab account via a rogue application designed to look like it will get them a "VIP" upgrade (this is jout an example)

## Attachments

Warning: Attachments received through HackerOne, please exercise caution!

- gitlab-bugg.pnc
- gitlab-href.png

## Testing Activity

## @fjsanpedro

Test that the user name is rendering the html name but as text and not as html

## Security Testing Activity

## @vij

Test that names are rendered safely

## MR Breakdown

Edited 2 years ago by Darva Satcher

## @fjsanpedro

In <a href="https://gitlab.com/gitlab-org/gitlab/blob/master/app/views/shared/notes/ note html hami#135">https://gitlab-org/gitlab/blob/master/app/views/shared/notes/ note html hami#135</a> we call the method sanitize to clean the user name. Nevertheless, that method ends up calling <a href="https://picaster.org/linear/notes/">https://picaster.org/linear/notes/</a> note that hamiful 35</a> we call the method sanitize to clean the user name. Nevertheless, that method ends up calling <a href="https://picaster.org/linear/notes/">https://picaster.org/linear/notes/</a> note that hamiful 35</a> we call the method sanitize to clean the user name. Nevertheless, that method ends up calling <a href="https://picaster.org/linear/notes/">https://picaster.org/linear/notes/</a> note that hamiful 35</a> we call the method sanitize to clean the user name. Nevertheless, that method ends up calling <a href="https://picaster.org/linear/notes/">https://picaster.org/linear/notes/</a> note that hamiful 35</a> we call the method sanitize to clean the user name. The picaster of the name of the

We can easily fix by replacing the method sanitize with simple\_sanitize. Nevertheless, this method removes all himl tags from the name. To be compliant with other parts of the platform, we shouldn't do this. In other features, we just render the user name without removing any data, just showing it as text instead of a HTML.

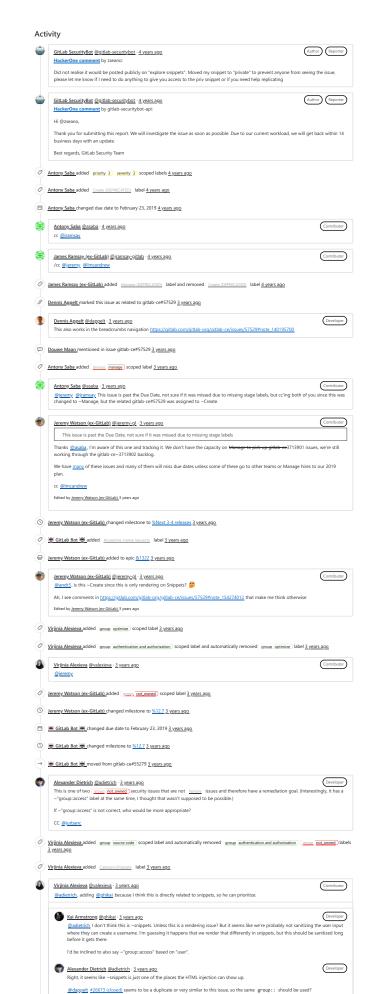
The fix will pass by removing the call to sanitize in that line, and just show the user name directly as text.

## @vij

The rendering of the user's name can be modified to not call html\_safe, which will fix the rendering of any existing malicious user names

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<u>Virjinia Alexieva</u> @valexieva ⋅ 3 years ago

@jeremy

Contributor

