

Sprint 4 Documentation

Front End Documentation:

Deleting:

Mitigation Repository 

Login

Logged in as admin

Delete Mitigation

Are you sure you would like to delete this mitigation?

Yes

No

New Title

Mitigation ID: 139

Physical Preventative

Link to this mitigation: [139](#)

Children: [139](#)

Edit Mitigation

Fork Mitigation

Author: Theresa Morris

Created on: 2020-04-22 19:48:03

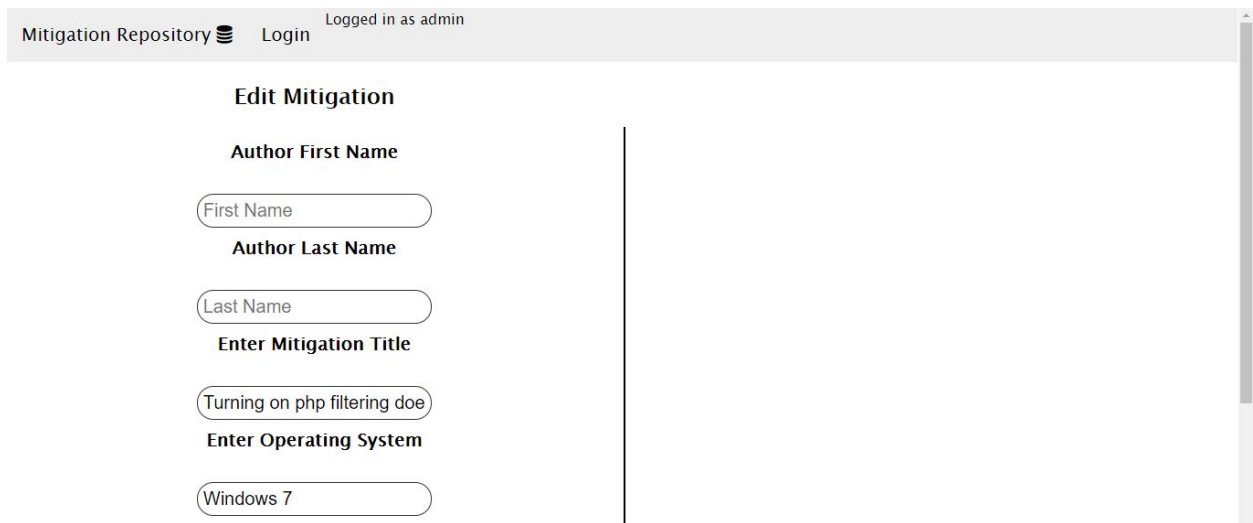
Modified on: 2020-04-22 19:48:03

Operating System: New OS Version: New Ver

New Desc

From the Search Results page, anybody who is logged in as an admin has the option to delete a mitigation. If the admin would like to delete the mitigation, for any reason that would validate it's deletion, they can click a button that will bring them to the "Delete Mitigation" page. On this page, they will be asked whether or not they would like to delete the mitigation, with the buttons "Yes" and "No" underneath the question. Underneath the buttons the information about the mitigation is displayed. The admin can see the Mitigation name, author, ID number, any children that it may have, the security controls, as well as the times and dates of creation and modification. After reviewing all of the information, the admin can press the "Yes" button, which will successfully delete the mitigation from the database and the web interface, and then bring them back to the index page. Or the admin can press the "No" button, which simply brings them back to the index page for them to make any further selections. When creating the delete page, we wanted to ensure that the admin could see the mitigation before deleting it. That way, they can go over all of the information about the mitigation before deleting it from the database.

Editing:



The screenshot shows a web application interface for editing a mitigation. At the top, a header bar contains the text 'Mitigation Repository' with a menu icon, a 'Login' button, and the text 'Logged in as admin'. Below the header, the main content area is titled 'Edit Mitigation'. It features a vertical line that divides the form into two columns. On the left side of the line, there are several input fields: 'Author First Name' with a text box containing 'First Name', 'Author Last Name' with a text box containing 'Last Name', 'Enter Mitigation Title' with a text box containing 'Turning on php filtering doe', 'Enter Operating System' with a text box containing 'Windows 7', and another empty text box at the bottom. The right side of the form is currently empty.

From the Search Results page, the admins have the option underneath each mitigation to edit that specific mitigation. If the admin would like to edit the mitigation, they can click a button and it will bring them to the “Edit Mitigation” Page. On this page, the text boxes will be filled with all of the information about the specific mitigation that the user would like to edit. From there, the user can change the information about the mitigation to suit their specific information that they wish to edit it to. The users then press the “Edit Mitigation” button that successfully edits the mitigation on the database as well as on the web interface. From there, that mitigation that the admin edited will show up on the search results page for all users to see.

New Index Page:

← → ↻ ⓘ Not secure | ec2-3-92-202-230.compute-1.amazonaws.com/index.php

Mitigation Repository Login Guest Access

Search Mitigation

Search Mitigation By Title

Search By Title

Category: Choose Category ▼

Type: Choose Type ▼

Search By Category and Type


25 Most Recent Mitigations

Create new Mitigation

Create new Mitigation

On the index page, the users now have the option to search for the mitigation by title, or search for the specific category or type that they are looking for. To search by title, the user will type in a keyword of the mitigation that they want to search for, then press the enter button on their keyboard. They will then be taken to the search results page, where the page will display all of the mitigations containing that specific keyword. If the user would like to search by the category and type of the mitigation, then they simply select the information from the dropdown menus that are connected to the database. Upon searching, they will be brought to the search results page where they will see all of the mitigations that contain the category and type that they were searching for.

Dropdown Filter Searching on Results Page:

Mitigation Repository  Login Logged in as admin

Search Results

Administrative ▼ Corrective ▼

Editing on Windows	
Mitigation ID:121	Administrative
Author: Sam Reasoner	Corrective
Created on:2020-04-12 03:20:39	
Modified on:2020-04-12 03:20:39	
Editing on Windows	
Mitigation ID:117	Administrative
Author: Michael Cera	Corrective
Created on:2020-04-11 17:22:41	
Modified on:2020-04-11 17:22:41	

If the user chooses to search for a mitigation based on a specific keyword or simply wants to look for the 25 most recent mitigations, they may want to further limit their search by filtering the type and category of the mitigation. To do this, we displayed drop down menus next to the “Refine Search” search bar where they can select a type and a category. When the user selects them, the mitigations corresponding to the mitigations with that type and category will display. As of right now, we have the page set up so if the user chooses Administrative category, any mitigation with Administrative category will display, and if they choose Corrective then all mitigations with Corrective type will display, whether or not the mitigation has Administrative category.

Backend Documentation:

The server was updated to upgrade mysql to version 8.0.19. This was done so that the user role feature could be utilized in the project.

Created a procedure to add new users to the database. This procedure adds new user's into the database under one of three available roles. Note, each role only has access to the Mitigation Repository schema, with varying levels of control. The roles are given privileges according to the Principle of Least Privilege. This means gen_user only has select, and insert privileges. Next, admin_user has select, insert, update, and delete privileges. Finally, the dev_user role has all privileges on the Mitigation Repository. Then after giving the new users roles, the procedure then sets their roles to a default setting. If this is not done the users will have no privileges after login. To use the system only the gen_user, and admin_user are required, however the procedure is written to allow for future roles to be added.

Furthermore, Fuzzy Searching was improved from using the soundex function to a full text search. Full text allows us to search for words by query expansion. How this works that the title entered in the procedure will get all the titles that contain the words entered by the user. After gathering all the titles, it goes over all the words in the titles and finds recurring words that were not searched the first time and requery the database to find more titles with the recurring words. For example if i enter the word "database" and one of the recurring words was "MySQL" it would do a requery of the database looking for titles that contained "MySQL".