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CST:256 Activity 6

Professor Hughes

Part 1: Security Research and Middleware Integration

1. Security Service Middleware Service

Using the built in Laravel auth middleware that checks if a user is authenticated.

Text

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The Authenticate middleware inherits from another Authenticate middleware located in the Laravel vendor directory. It takes the request of the current user and if they are currently authenticated it will then redirect them back to ‘login’.

Built in logger that will log when a user passes or fails the authenticate middleware.

Also added a “isAdmin” and “isSuspended” middleware for more security for certain admin pages and to not allow suspended users to access any of the page.

Text

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2. Logging Service

A screen shot of a computer

Description automatically generated with low confidence

Logging Service interface

Text

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Logging Service Implementation Class

3. Logging Service Provider

Text

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Logging Service Provider that registers MyLogger3, we are binding a singleton

Text

Description automatically generated

Added our LoggingService provider to the list of providers under the confid/app.php file.

4. Team Project Integration

Our clc project has the built in auth middleware as well as the isAdmin and isSuspended middleware implemented into it. We also injected the Logging Service into every middleware and controller in our project. An example of this in the LoginController.

Text

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This means that when a user visits any controller in the app, we will have a log of that action as well as every authentication and every attempt to visit an admin page. While we are only showing the implementation of the Logging Service injection for the LoginController, below is a screenshot of the log for a user visiting multiple pages and entering multiple pages.

Text

Description automatically generated

As you can see the user logs and then edits their profile, joins an affinity group, searches for a job, applies for a job, and then logs out.

Text

Description automatically generated

This is a user accessing a admin page because they are authenticated as an admin with the isAdmin middleware

Text

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This a user who is not authenticated as a admin and so they fail the isAdmin middleware check.

5. Security Research