22024 – Branding: Themes 1.0 engine optimization (cssdominizer)

Description:

Eric had a suggestion to investigate different ways to leverage implementing a given Theme’s Variables as CSS into the browser. Discovery has revealed that we can inject links to endpoints that would serve a CSS file for a given theme. This would improve code structure and efficiency within our application when it comes to applying a Theme’s CSS.  
Currently, if a user were to make a change to a given theme (updates to variables, images, and/or videos) the user would have to refresh their current session within VDS for the app to retrieve these changes. A cache and cache invalidation methodology can be utilized for the app to be knowledgeable of changes and know if and/or when a theme’s data is currently stale.

Acceptance Criteria:

Feature: Inject CSS into the head of the HTML document  
Scenario: The VDS application is resolving a Theme on login page  
 Given the user is within the login page  
 Then VDS will resolve the theme that is saved in local storage  
 And apply the static file associated to that theme  
 But if that theme does not associate with a static file   
 Then VDS will resolve the “default theme” (\_variable.scss)

Scenario: The VDS application is resolving a Theme after an Organization has been loaded  
 When the Organization has the feature flag “db theme is enabled” is turned off  
 Then VDS will resolve the theme that is set on the Organization  
 And apply the static file associated to that theme  
 But if the theme does not associate to a static file  
 Then VDS will resolve the “default theme” (\_variable.scss)

When the Organization has the feature flag “db theme is enabled” is turned on  
 Then VDS will resolve the theme that is set on the Organization  
 and inject a link for the browser to resolve the given theme’s css

Feature: Caching and cache invalidation for Theme data (CSS, Images, an videos)  
Scenario: The VDS application is retrieving Theme data  
 Given that the theming data has not been already cached  
 When VDS is resolving a Theme and retrieving the Theme’s data  
 Then VDS will store the information in a cache for the VDS application to utilize without having to ask the backend for the information

Given that there is theme data within cache  
 When VDS is retrieving the Theme’s data  
 Then the cache will check to see whether or not the data is stale  
 and if it is stale re-retrieve the data  
  
 Given that there is theme data within cache  
 Then the cache will periodically check to see whether its cache is stale  
 and retrieve new data for that particular data point  
 and alert to the application when appropriate if there is new data