**Cache control in WiCMS Portal [Analysis]**

**Project:** WICMS, WIAPP (for testing purpose)

**Redmine Ticket Number:** Feature #1677

**Task Details:** Cache control in WiCMS Portal, it means to make browser to load the changes without deleting cache data whenever the developer updated the portal.

**Assigned By:** Nagaraju Sir

**Assigned Date:** 11/05/2022

**Estimated Hours to complete:** 24 hrs

**Actual Start Date:** 11/03/2022

**Any DB Changes (include alter or create scripts):** Not Required

**Infra/Server changes (Changes on UNIX Servers):** NO

**Design Details (Explanation how are you addressing the change requested):**

When developer does any modifications in the portal resources like CSS and JS files, user need to clear the cache to load the new changes. In order to avoid that, here we are trying to put cache control logic, so whenever the developer does any modifications in any portal resources, those changes should reflect in portal immediately when user loads the page.

1. For this we found a solution of adding a parameter in the URL of each css and js. We have to assign a random value to this parameter, so whenever the user reloads the browser this value also need to be changed to load the changes made.
2. So, we can assign a Math.random() function to the parameter which changes the value whenever we load the portal.
3. References:
   1. <https://stackoverflow.com/questions/118884/how-to-force-the-browser-to-reload-cached-css-and-javascript-files>
   2. <https://stackoverflow.com/questions/3466989/what-does-appending-v-1-to-css-and-javascript-urls-in-link-and-script-tags-do>

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