Introduction

In summary the web app does the following:

For a room of given dimensions, the user enters up to 4 different types of metrics representing noise levels which may be incident on a facade, (technical terms are LAeq16m LAeq8 LamaxO and LamaxV).

The user then enters details of each significant element of the facade (windows, door e.t.c.) and searches for the elements based on a given area, quantity or "equivalent free area" for vents.

The web app returns the elements along with the noise level within the room with the inclusion of that element. The user repeatedly adds and deletes elements until they have a representation of the façade. The internal noise levels for each of the (up to) 4 metrics are shown at the top right of the screen.

I would like the following carried out please:-

A) Code review

A1) Carry out code review of work to date and send me the comments. If required I will carry out necessary updates prior to proceeding.

B) The search screens

B1) The UI should be revamped so it looks good and will be easy to maintain and use.

B2) Each field should have a help field that I can customize.

B3) Currently the room details and search details are on 2 pages. Can they be designed so that they are on one page? There should be scope for the addition of fields in the future.

B4) I am using jinja and vbscript to update the quantity field once the element type is selected. Is there a better way of doing this? In the future other fields, including the metric fields, may be added which I will need to customise at run-time.

B5) I would like cells on the search to colourise when they exceed a fixed criterion value.

C) Web App

C1) The entry page should host the entry of the room/search details. There should be navbar links to

C2) An "About" page (I will add text for this)

C3) A "Contact" page which should be a contact form

C4) A "Download" link should be active once at least one element has been selected. The functionality for the creation of the URL string is already implemented via a HTML submit button.

C5) A "Share" link should be active once at least one element has been selected. This create a url query string representing selected elements which can be sent via social media/email e.t.c.. The user who clicks on that link is then taken to the site with the elements selected. The functionality for the creation of the URL string is already implemented via a HTML submit button.

C6) A Log-in or sign-up page depending on the status. There will be 3 types of registered users. 1

1)   Registered Users - The only difference between registered users and anyone using the site is that the Share, Download and Database abilities are not allowed.

2)   Suppliers - These users will be suppliers of glazing and ventilation who wish to maintain their own products in addition to the above.

3)   Admin

C7) Database

This will link to the elementSRI database for registered users. Suppliers will aslo be able to add/remove/amodify their won products from this page.

D) General

D1) The web app should comply with all of the current requirements for such sites (cookies e.t.c.)