The client side front end javascript is based on VueJS 2

It starts with the main component, which calls the form, with step 1

The first function on the included component: **Contact2.vue**

async addsearchhistory ()

This is the form that collects the data from the form, and inserts it into the parent table search\_history (it does not allow the amount to exceed 49), after that it calls the second method

async fecthonlineapi

This function contacts the online api with the values retrieved from the form

It generates a json response and sends it to:

postjson()  
Which takes the json file, and sends it to the controller so that it traverses the json, inserts the questions to the question table, along with the inserted id of the parent search\_history table,

(refer to the controller – controller : SearchHistoryController Method loopGeneratedJson )

After all this it is redirected to the second page:

**SearchHistoryController.vue**

Here there is a strategy to display the tests that are still unanswered, plus a second small test to test all questions, based on two conditions then users supplied email, plus the id of the search conducted

The first check loops all unanswered questions, the small function checks to see if there are any answered and unanswered questions altogether

If there are unanswered questions, a radio option gives the user the option to answer each question, by this step both a question and its answer are marked as answered, until all questions are unanswered and there are no more unanswered questions

If there are no more unanswered questions, we check for the result for the second test, if that is zero, that meant that the user search had no results, if it is more than zero that means he should go and see his test

The same applies if the user made a search and returned no results

So in this page there are two vuejs functions one loops for the unanswered questions, and the second answers them

fecthquestions(page)

And

answer(page){

Finally, once all questions are answered, we go to the final page of the questions the user answered,a nd the answer he chose

**Resultfinal.vue**

fecthanswers(page)

Both pages filter based on the result of the email and the serach\_history ID