

Exercise 1 – (reading assignment)

Read the following chapters:

1. (how to create a Modal Box) https://www.w3schools.com/howto/howto_css_modals.asp
2. (how to create a top navigation bar) https://www.w3schools.com/howto/howto_js_topnav.asp
3. (SQL language) <https://www.w3schools.com/sql/default.asp>
4. (JavaScript Use Strict) https://www.w3schools.com/js/js_strict.asp
5. (Non-functional requirement versus functional requirement) https://en.wikipedia.org/wiki/Non-functional_requirement

There will be a quiz, available on d2l from Monday March 30th until Monday April 6th, covering these topics.

Exercise 2 – (Picture Dictionary Web Application)

In this final part of project 2, the first and second part of the project is combined to produce a complete Picture Dictionary web application. A demo of the application is available at the beginning of the March 25th lecture. The video of the lecture is available on d2l under the content section.

The functional requirements of the application are as follows:

1. Users should be able to create new themes
2. Users should be able to upload images and add them to themes
3. Users should be able to add labels to the images
4. Users should be able to add words to the labels on the images
5. Users should be able to change the words that are added to the labels on images
6. Users should be able to view the list of the themes
7. Users should be able to select a theme and to view its associated images
8. User should be able to click on a label on an image and to see the word associated with label

The system design requirements of the application are as follows:

1. The application should adhere to a client-server architecture
2. The server should be a restful service developed using Node.js
3. The client should be a web application written in HTML and Javascript
4. The server should use a Postgresql database to manage the data

At the github repository at the address <https://github.com/sbstech-hamid/ista330-spring2020-projects> you can find the following files which constitute the client application :

1. index.html
2. pages.html
3. admin.html

And the following files which constitute the server application:

1. server.js
2. db.js
3. .env

What you need to do:

1. On your local database server, create a database, call it picture_dictionary. In that database create three tables: theme, image and word (for the columns specification refer to the lectures on March 18th, 23rd and 25th)
2. On admin.html, complete the TODO task at line 225
3. On db.js, complete the TODO tasks at lines 69, 74 and 81
4. On server.js, complete the TODO tasks at lines 66, 74, 89 and 124

After you completed the above tasks, you should be able to have the web application up and running.

Please submit the url of your git repository to d2l.
