***Documentation Packet Week Ending [Feb 17th]***

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| Team: \_\_\_\_\_\_\_ | Student: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

# Goals:

* Solve a variety of Javascript problems that may appear on the Nocti
* Create an SQL database from your DocPac data
* Create a web interface to search the DocPacs SQL database

# Included Documentation

* Teams: DocPac Digitalization Recap (pg. 2)
* Teams: DocPac SQL Input (pg. 2)
*  Pairs: Javascript Challenge #9
*  Pairs: Javascript Challenge #10
*  Individual: Lesson Notes
* Reflection (pg. 3)

# Required Documentation

* Teams: DocPac SQL Input (pg. 2)



*  Pairs: Javascript Challenge #9
*  Pairs: Javascript Challenge #10
*  Individual: Lesson Notes
* Reflection (pg. 3)

# Changes:

* None

# Events:

* Feb 14th: Weekly Review
* Feb 14th: [Lesson] Databases in SQL
* Feb 17th: DocPacs Due
* Feb 18th: No School

# DocPac Digitalization Recap

Up to this point, you should have completed the following:

* Input the text from each DocPac into an Excel file, separating categories by sheets (Feb04)
* Export each DocPac Excel category sheet to a CSV file (Feb04)
* Using nodeJS, convert each CSV to a Javascript array (Feb04)
* Using nodeJS or an SQL database tool, convert each CSV or Javascript array to a table in an SQLite3 database (Feb11)
* Using npm’s ‘sqlite3’ module, create and ExpressJS web server that allows the user to input a category, and receive all entries from all DocPacs from that category (Feb11)

# DocPac SQL Input

Your ExpressJS web server should be expanded to include a page that allows users to enter the data from new DocPacs into the SQL database.

* You will need at least one new GET endpoint that serves a web page containing an HTML form.
* The HTML form will allow users to put in a DocPac date, and one entry for each of the five categories.
* You will need at least one new POST endpoint. This will validate the HTML form data the user submitted.
  + Return an error page to the user if they did not enter the DocPac date in the official MMMDD format, or only some data from a category entry was left blank (all data left blank in a category is fine).
* Once the HTML form data is validated, use the SQL command ‘INSERT’ to insert data from each entry into the SQL database to its matching category table.
  + Skip any category that was left blank.
  + If you are using the npm ‘sqlite3’ module, you can use “db.serialize()” to “db.run()” a series of SQL queries synchronously (each will query will wait to be done before moving on, skipping the need to use each query’ callback function).
* If the data insert was successful, tell the user. Otherwise, tell them there was an error.

# Submitting DocPac Digitization Assignments

Submit both assignments in a single Pull Request to the DocPac Gtihub Repository.

* “node\_modules” must be excluded from the PR. Use .gitingore
* “package.json” must have the correct packages, so that running “npm i” will install all required packages
* Launching the program must show the port the web service in console
* Any other features that make it faster and easier to test will be bonus
* I will reject projects that take too long to configure and launch
* **ALL MEMBERS OF THE TEAM MUST HAVE AT LEAST ONE COMMIT IN THE HISTORY LIST CONTRIBUTING CODE TO THE ASSIGNMENT TO RECEIVE CREDIT.**
* If you are not on a team, please write on the back of this DocPac above the grading rubric what the ***ID NUMBER OF THE PR*** that includes code that you committed.

**Independent Developers must select two to three team members to work on their projects with this week. You cannot be on a team with anyone you’ve been on a team with in the past.**

# Reflection

**What is one lesson you learned this week that was not taught in any of your classes?**

* It *cannot* be something any of your teachers taught you
* It *can* be something inspired by something a teacher has taught you
* It must be something you can apply to your life, not just other schoolwork
* *In other words, don’t tell me about what you learned in science about molecules*

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**How valuable is that lesson, and how can you use it in the future?**

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**What do you think of the lessons/activities in the class this week?**

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# Grading

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|  | +5 | You went above and beyond expectations. This tier will increase your overall score for the quarter, in addition to this DocPac. |
|  | +3 | You performed as well as expected for this class. This tier is the maximum score for this DocPac. |
|  | +2 | You show minimum effort, insufficient understanding, or have serious mistakes. This is the minimum passing tier for this DocPac. |
|  | 0 | The work was not submitted, damaged, seriously incorrect, or unprofessional. This is the failing/rejected tier. |

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| Independent Developers, which  Pull Request #ID NUMBER is your committed code in?  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |  |  |  | | --- | --- | --- | |  |  | DocPac Digitalization | | ❑ | S | Above Expectations | | ❑ | A | Complete | | ❑ | C | Errors | | ❑ | F | Incomplete | |
| |  |  |  | | --- | --- | --- | |  |  | JavaScript Challenge #9 | | ❑ | S | “Elegant” Solution | | ❑ | A | Complete | | ❑ | C | Errors | | ❑ | F | Incomplete | | |  |  |  | | --- | --- | --- | |  |  | JavaScript Challenge #10 | | ❑ | S | “Elegant” Solution | | ❑ | A | Complete | | ❑ | C | Errors | | ❑ | F | Incomplete | |
| |  |  |  | | --- | --- | --- | |  |  | Lesson Notes | | ❑ | S | Above Expectations | | ❑ | A | Complete | | ❑ | C | Incomplete | | ❑ | F | Did not complete | | |  |  |  | | --- | --- | --- | |  |  | Reflection | | ❑ | S | Insightful and thoughtful | | ❑ | A | Good reflection | | ❑ | C | Did not follow directions | | ❑ | F | Did not complete | |
| |  |  |  | | --- | --- | --- | |  |  | DocPac Condition | | ❑ | +3 | You had a PR accepted | | ❑ | +1 | Neatly folded. Undamaged | | ❑ | 0 | Bent corners, creases, stains | |  |