

# CCPS530 FINAL EXAM – Technical Report

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## How I made the project?

I used NodeJS and ExpressJS as the framework with HTML/CSS files and a text file. Then I used MongoDB as the database to store and retrieve user data.

With NodeJS/ExpressJS, I did the following in the JS (app.js) file:

- I imported the express and json into the app.js file by using require() and request()
- I imported the MongoDB stuff by adding the URL and client stuff.
- I created a bunch of global variables for printing and to check if the user is currently logged in (active).
- I used app.get() to retrieve and/or print out the webpages for the website.
- I used app.post() to get the information after user enters input and updates the webpage by printing out additional stuff with res.write() in it.
- I used alert() to get the notification for error messages. I needed to enter “npm install alert” in the terminal/command to make sure it works on the NodeJS/ExpressJS project.
- I used for loops and if-statements to check through the database for login and the words already searched.
- I used the request() function to get the API contents from the URL

For the HTML/CSS files I did the following:

- I added the basic stuff of course which is <doctype...>, <html...>, <head>, and <body>
- The most important thing I added was the <form...> tags with textboxes and a submit button for the signup, login, and the place where the user inputs words.
- For CSS, I just used it to design the background as well as the stuff based on the <form...> tags.

For the text file (NoImageAvailable.txt), it was only for part of the <img..> tag where it uses both the double quotes and single quotes.

For MongoDB, I did the following:

1. I created a database called “ryerson”.
2. Inside the database I created in the previous step, I created two collections called “users” and “searches”
  - a. The “users” is for storing the info of each of the users.
  - b. The “searches” is for storing the user’s search.

## How I uploaded the project?

I only uploaded the project by opening with localhost by entering “node app.js” in the terminal/command. I made my port 80 since it is the default which makes it easier to enter in the browser.

## How long did it take to do this project?

It took me 24 hours to finish this.

- 4 hours of readings and research
- 20 hours on code experimentation and fixing the errors, which lead me to finishing this project.