CSE 341 Project 2 Proposal

This project will look quite a bit different from your e-commerce project. This project will be a REST API. This means that your Node.js project will not do any server-side rendering, and will not use views or ejs. Instead, all of your routes will simply return JSON. You will not develop a frontend for this project. Instead, you will develop a RESTful Node.js API that performs CRUD operations on a NoSQL database in a secure way. You will document all of your API routes using Swagger, and in the end you will submit a video demonstration of your API documentation, your API requests being handled properly, and your MongoDB database being modified accordingly.

All highlighted text in this document is for your group to edit. …starting with deleting this one. ☺

# General Info

Student Names in group

Proposed Application Name

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# Application Info

## What will the API be?

…

## What will the API do?

…

## What database will you use?

…

## How will your API utilize a login system?

…

## How would a frontend be able to manage authentication state based on the data you provide?

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## What pieces of data in your app will need to be secured? How will you demonstrate web security principles in the development of this app?

…

## What file structure and program architecture will you use for this project (how will you organize your node project)? Why?

…

## How will the data be stored in your database?

…

## What are potential stretch challenges that you could implement to go above and beyond?

…

## How will you divide up work in your team to ensure the following tasks all get completed?

* HTTP GET, GET (all, single) …
* HTTP POST…
* HTTP PUT…
* HTTP DELETE…
* Node.js project creation…
* MongoDB setup…
* API Swagger documentation for all API routes…
* Video presentation of node project, all routes functioning, mongoDB data being modified, and API documentation. …

# Potential Risks and Risk Mitigation Techniques

## What are the risks involved with you being able to finish this project in a timely manner?

…

## How will you mitigate or overcome these risks?

…

# Project Scheduling Timeline

Plan out when you will complete each phase of development listed in the [Project 2 High-level Tasks webpage](https://byui-cse.github.io/cse341-course/projectStuff/prj2/prj2-breakdown.html) within the allotted time to complete the project.

|  |  |
| --- | --- |
| Lesson 9 Tasks | *…API DOCUMENTATION…*… |
| Lesson 10 Tasks | … |
| Lesson 11 Tasks | … |
| Lesson 12 Tasks | … |
| Lesson 13 Tasks | …*…Video Presentation…* |