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.

# 

# General Info

Ashley Zufelt, Chris Blount, Ellie Lofgreen, Gary Wilkins, Jeremy Knudsen, Josh Knudsen, Josh Wassum, Robert Bridge

Proposed Application Name

Contents:

Contents

[General Info 1](#_Toc95985531)

[Application Info 2](#_Toc95985532)

[What will the API be? 2](#_Toc95985533)

[What will the API do? 2](#_Toc95985534)

[What database will you use? 2](#_Toc95985535)

[How will your API utilize a login system? 2](#_Toc95985536)

[How would a frontend be able to manage authentication state based on the data you provide? 2](#_Toc95985537)

[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? 2](#_Toc95985538)

[What file structure and program architecture will you use for this project (how will you organize your node project)? Why? 2](#_Toc95985539)

[How will the data be stored in your database? 2](#_Toc95985540)

[What are potential stretch challenges that you could implement to go above and beyond? 3](#_Toc95985541)

[How will you divide up work in your team to ensure the following tasks all get completed? 3](#_Toc95985542)

[Potential Risks and Risk Mitigation Techniques 3](#_Toc95985543)

[What are the risks involved with you being able to finish this project in a timely manner? 3](#_Toc95985544)

[How will you mitigate or overcome these risks? 3](#_Toc95985545)

[Project Scheduling Timeline 3](#_Toc95985546)

# 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?

…

## 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…* |