CSE 341 Final project Proposal

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 do?

…

## How will your API utilize a login system?

…

## What database will you use?

…

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

…

## 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?

…

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

…

# API Endpoint Planning

For this section, you’ll plan out what API endpoints you’ll need for your project. If you go to [editor.swagger.io](https://editor.swagger.io/) you’ll see the Pet Store application documentation that they have. This can be a good point of reference because they demonstrate how to have multiple database entities (ie: pet, store, user), and CRUD operations for each with various ways of performing them. For this section of the Final Project Proposal, you will make a list of each api endpoint that will be supplied for each database entity. So, if I was going to create the pet store app, I’d put something like this:

* pet
  + POST /pet
  + PUT /pet
  + GET /pet/findByStatus
  + GET /pet/findByTags
  + GET /pet/{petId}
  + POST /pet/{petId}
  + DELETE /pet/{petId}
  + POST /pet/{petId}/uploadImage
* store
  + GET /store/inventory
  + POST /store/order
  + GET /store/order/{orderId}
  + DELETE /store/order/{orderId}
* user
  + POST /user
  + POST /user/createWithArray
  + POST /user/createWithList
  + GET /user/login
  + GET /user/logout
  + GET /user/{username}
  + PUT /user/{username}
  + DELETE /user/{username}

Thinking about this now will be extremely helpful for you because next week when you have to create the swagger documentation for all of this and publish it to heroku so it is ready for the rest of your project.

# Project Scheduling and Delegation

Plan out what tasks will get completed with each lesson remaining in the semester (Only edit highlighted text).

|  |  |
| --- | --- |
| Week 04 Tasks | *Project Proposal* |
| Week 05 Tasks | * *Create Git Repo* * *Push to Heroku* * *API DOCUMENTATION is complete and available at route ‘/api-docs’*   … |
| Week 06 Tasks | … |
| Week 07 Tasks | …*…Video Presentation…* |

## 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…
* Create git repo and share with group
* 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?

…