CSE 341 Final project Proposal

# General Info

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Book Club

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# Application Info

## What will the API do?

## Basic information for the book club, aka what books we will be reading for the year where we will discuss the book each month, review on what we thought of the book.

## How will your API utilize a login system?

Login to see person information such as participants and where the club will discuss the book for that month.

## What database will you use?

MongoDB compass

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

JSON files

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

Provide API key

## 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?

The personal information of the participants will need to be secured. Login system but only the admin can change information.

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

SRC (controllers, routes, middleware, configs) and then files outside like swagger and app.js, gitignore, routes.rest, readme, node files. We organizing it this way so it the code is organized and easier to locate file for the app.

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

We can block certain users, forgot password, unblock certain users.

# 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:

* participants
  + POST /registration
  + POST/login
  + POST/login\_admin
  + POST/forgot\_password\_token
  + PUT /edit\_user
  + PUT/reset\_password
  + PUT/update\_password
  + PUT/Block\_User (Admin Only)
  + PUT/Unblock\_User (Admin Only)
  + GET /particpant/findById
  + GET/logout
  + GET/all\_Users
  + DELETE /participant/{participantId} (Admin Only)
* Books
  + POST/Books\_Month (admin only)
  + POST /Books/upload image (admin only)
  + GET /books/{booksId}
  + GET/all\_Books
  + PUT/edit\_books (admin only)
  + DELETE /books/{booksId} (admin only)
* Where to meet
  + POST /meeting\_information (admin only)
  + GET /meeting\_information/ {meeting\_informationId}
  + GET /all\_meeting\_information
  + PUT /edit\_meeting\_information (admin only)
  + DELETE /meeting\_information/{meeting\_informationId} (admin only)
* Review Books
  + POST /review
  + GET/review/{reviewId}
  + GET/all\_review
  + PUT/edit\_review (only the user can edit their own post)
  + DELETE/review (only the user can delete their own post)

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).

|  |  |
| --- | --- |
| Lesson 9 Tasks | *Project Proposal*  *Before: databases done, create a github repository*  *Start coding see the databases*  *Start login information*  *Push to render* |
| Lesson 10 Tasks | Finish login and logout information  Start POST, GET, PUT, DELETE for databases Participants, and books |
| Lesson 11 Tasks | Password/reset/forgot password  Continue POST, GET, PUT, DELETE for databases Review, meeting information |
| Lesson 12 Tasks | * *API DOCUMENTATION is complete and available at route ‘/api-docs’*   Error handling  Routes.rest  Frontend (API Key)  Debugging |
| Lesson 13 Tasks | Fix small bugs, issues*…Video Presentation…* |

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

* HTTP GET, GET (all, single) Mouhamed Koko (Participants, books) Kyerra (reviews, meeting\_information)
* HTTP POST Mouhamed Koko (Participants, books) Kyerra (reviews, meeting\_information)
* HTTP PUT Mouhamed Koko (Participants, books) Kyerra (reviews, meeting\_information)
* HTTP DELETE Mouhamed Koko (Participants, books) Kyerra (reviews, meeting\_information)
* Node.js project creation Kyerra
* Create git repo and share with group Kyerra
* MongoDB setup Mouhamed Koko
* API Swagger documentation for all API routes Mouhamed Koko
* Video presentation of node project, all routes functioning, mongoDB data being modified, and API documentation. Everyone

# Potential Risks and Risk Mitigation Techniques

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

Having something take way longer than planned. Someone getting really sick and not being able to help on the project.

## How will you mitigate or overcome these risks?

Communication to help each other as we do the project.