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King Hussein Faculty of Computing Sciences
Department of Computer Science
Advanced Topics in Internet Programming (11344)
Web Project Description
Fall 2021/2022

Due date: Sunday 16th of January 2022 before 11:59 PM

General Guidelines:

Members:

- 1- This project should be completed as team effort, (in some special cases, an individual effort project is permitted upon approval).
- 2- If you are working as a team, teams of maximum of 3 students are only allowed (NO MORE).

Submission

- 3- Include in your project submission folder a short description about your project and the structure, also you need to include the full names of the team members and their university IDs. The project must be submitted on the eLearning gateway. Please make only ONE submission per team.
- 4- No hard copies are accepted.
- 5- Any late submission will not be accepted.

Work:

Build a RESTful CRUD (Create, Retrieve, Update, Delete) API with Node.js, Express and MongoDB. Use Mongoose to interact with the MongoDB instance.

The idea of the application is left to you (Ex: course management, library, online shop ...). Build Rest APIs for creating, listing, editing and deleting.

For the front end, either use React as a front end development framework, or any templating engine (such as ejs or pug).

Your app should be neatly styled. It has to be neat (fancy styling not required).

Project Structure:

Make sure your project is well structured. For example

- Define your express routes inside a routes folder
- Put all css files, images, ..etc in a public folder
- Put all the database models inside a models folder
- Put all the template files in a views folder

Minimum Requirements:

- 2 models (Ex: novel, author...)
- In order to help maintain data integrity and protect the database, add validation at the schema level through mongoose.
- Allow at least one file upload on the server
- Work with API response codes
- Manage and interact with data stored in the mongoDB collections through four fundamental types of data operations.

For example:

- The user should be able to view a list of documents in a collection, with an ability to filter the list by various parameters.
 - The user should be able to add new documents
 - The user should be able to edit and update documents by changing its field values.
 - The user should be able delete a document.
- Your project files should be properly documented.
- Submit in addition to the project a user manual that describes the main functionality of your app. It should include a list of dependencies your that you project requires.