Project - 3 Revision

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Project Name: Books Management

Project Overview: This is Book management project. It is not like library management where it is having three Models. Models are [User], [Books] and [Reviews]. We built this project in three small Phases like User Phase, Books and Review and Implemented all the Project Logic. First Phase we must first construct User Model. Then after Completing User model. We done all the security features Like authentication and middleware. Like this we implemented Books Model and Review Model. The Next step is, we will register users by giving user detail in our library database. Then we will add books which are written by those users, in our library. Then, we will add some reviews for each book, and those reviews will be given by some readers. Now, we can see which users are registered in our library database and how many books are added in our library and we can also check the reviews of every book. Lastly all the features of project is done we are tested this project in small set of test cases.

Problem statement:

- Firstly, we worked on Schemas one for users, one for books, and one for review. Here we must use proper data type for all fields and validation things.
- For User we must create and store user details, we will create the first POST API for Creating user. User Can Login All Security Feature we have to do.

- Books Schema and we have to implement Create Book Get Book and get book by Book id, Update book, delete book.

- The next step is to create and save reviews of each book, using our third POST API, here we have to create review api by using Book id for particular book. Also implemented update review by book id and delete.

- In order to retrieve users or book details, we must create a GET API, where we require as a parameter, user_Id for user details or book_Id for book details.

- In order to update details of the user or the book, we will create a PUT API.

- User can delete his details and also he/she can delete his books from book library using the DELETE API.

Approach:

- First of all, we have to create server using the express library which is widely used in development industry.
- Then, in order to store data in the database in a structured manner, a schema must be created. We created the schemas using NoSQL Database. We used Mongo Db here.
- For the POST and PUT API, the request body must be used as input, and validations must also be used to ensure that the input is correct.
- Using input from the request body, we must save the data in the database for POST API and update the in database for PUT API.
- Then, in order to send the correct output in response for the GET API, we must apply validations as well as provide input in request parameters.
- The user will see the output after the data has been successfully fetched from the database.
  - If any user wants to remove his book or his details from the library, we will use DELETE API,
  - We can delete reviews using DELETE API.

- All workflow we executed in phases. We follow Agile development approach like first Code then parallelly test the project features are coming correctly as a problem statement stated.

Solution and Final Code: https://github.com/ajit-kerle/project-3-booksManagementGroup7