Book-Directory

1. Introduction

For my project I would like to implement a simple idea, so that I can learn the best way possible. I think of doing a book directory, with a small list of books and authors. Maybe the Website would also include some Bestseller lists and the best books of the week. It could be a good starting point for learning about NodeJS and MongoDB and express.

Some features would be:

- A home page, where some of the current best-selling books are shown. Maybe with a picture, author and intro text.
- Beneath the best-seller list there will be a list of your previously purchased books, where you could maybe add and delete books.
- Depending on which book you click, it will show you its details and you can write a comment to the author and community

2. Design and Implementation

2.1 The REST API Specification

- Some details to the REST API I will create with Express, MongoDB and Mongoose: I would support the logical operations and request types such as GET, to get the list of books, POST to add books and DELETE to delete books of the list. Every book will have a unique ISBN so that it is identified.

2.2 Database Schemas, Design and Structure

- I will use the MongoDB database as shown in the exercises. I will create a schema for book entries so that a certain structure is given. The entries consist of:

  - ✓ book title
  - ✓ author
  - ✓ publishing company
  - ✓ year of publishing
  - ✓ unique ISBN as mentioned above

2.3 Communication

I will use the structure we used in the exercise, therefor I will communicate through .json files. I will add (POST) books in the correct schema mentioned above incorporated in a json file. I will remove (DELETE) the books (the object in a json file) from the list with the unique ISBN that every book has.: "`Books.findById(req.params.isbn)`". This number works and acts like an ID for its book.

3. Conclusions

- I will as mentioned create a simple book directory, where a user can collect his favourite books inside a list and add and delete them from there as he wishes. The books are objects in a json file with different entries: title, author, publishing company, year and ISBN. The ISBN is unique. An unwanted book can be deleted through this ISBN. This means the supported operation will be GET, POST and DELETE. For the complete implementation of my REST API I will take use of Express, MongoDB and Mongoose.

4. References

- http://www.readprint.com/
- https://www.coursera.org/learn/server-side-nodejs/home/welcome
- https://www.goodreads.com/