Assignment 1	Project Summary	
Course	Fullstack Application Development with Node.js + Express.js +	
	React.js - 2019	

Project author		
Nº	Pseudonym	Face-to-face/ online
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Project name	BookWorld
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1. Short project description (Business needs and system features)

With so many books to read it is hard to choose your next one and even harder to know if whatever you choose will be good to read. BookWorld offers you to compose your reading list, see others' reviews and express your opinion on books you have already read. The system will be developed as a *Single Page Application (SPA)* using *React.js* as front-end, and *Node.js* + *express* as backend technologies. Each view will have a distinct URL, and the routing between pages will be done client side using *React Router*. The backend will be implemented as a *REST/JSON API* using JSON data serialization. The main user roles (actors in UML) are:

- Anonymous User can only view the registration page
- *User* (extends *Registered User*)— can see the catalog of books and choose to add them to "Favourites", "Want to read" and "Read", can leave a comment and a rating of every book.
- Administrator (extends Registered User) can add new books to the catalog and can manage the comment sections and remove comment if needed

2. Main Use Cases / Scenarios		
Use case name	Brief Descriptions	Actors Involved
2.1. Register	Anonymous User can register in the system by providing a valid e-mail address, first and last name, and choosing password. users have Student role.	Anonymous User
2.2. Browse the catalogs	Registered User can view the catalog Administrator can view and edit the catalog	Registered User, Administrator
2.3. Add books to personal library	Users can choose to add books to their "Favourites", "Want to read" or "Read" libraries	Registered User
2.4. Add a comment to a book	Users can share their likes and dislikes about a book in the comment section	Registered User

2.5. Search for books	Users can use a search bar to look for a book by using the whole name or part of the name of a book	Registered User
2.6. Filter the catalog by category	Users can choose to see books by category	Registered User
2.7. Manage catalog	Administrators can add and remove books.	Administrator
2.8. Manage comments	Administrators can choose to delete a comment if it breaks the rules of the site.	Administrator

3. Main Views (SPA Frontend)		
View name	Brief Descriptions	URI
3.1. Home	Presents a small selection of books	1
3.2. Catalog	Presents all books and allows users to add a book to their library without changing the page and to select a category of books to be shown	/catalog
3.3. Book	Presents a book with all available details and all the comments	/book/{id}
3.4. Favourites	Presents all books that the current user have added to their "Favourites" library	/favourites
3.5. Want to read	Presents all books that the current user have added to their "Want to read" library	/wanttoread
3.6. Read	Presents all books that the current user have added to their "Read" library	/read
3.7. Registration	Presents a view allowing the <i>Anonymous Users</i> to register in the system	/registration
3.8. Login	Presents a view allowing the users to login.	/login

4. API Resources (Node.js Backend)			
View name	Brief Descriptions	URI	
4.1. Users	GET <i>User Data</i> for all users, and POST new <i>User Data</i> . Available only for <i>Administrators</i> .	/api/users	
4.2. User	GET, PUT, DELETE <i>User Data</i> for <i>User</i> with specified <i>userId</i>	/api/users/{userId}	
4.3. Login	POST <i>User Credentials</i> (e-mail address and password)	/api/login	
4.4. Logout	POST a logout request for ending the active session	/api/logout	
4.5. Books	GET, POST Books	/api/books	
4.6. Book	GET, PUT, DELETE <i>Book</i> with specified bookld	/api/books/{bookId}	

4.7. Comment	GET, PUT, POST, DELETE <i>Comment</i> for a specific book	/api/comment
4.8. Favourite s	GET, POST, DELETE books from favourites library	/api/favourites
4.9. Want to read	GET, POST, DELETE books from "Want to read" library	/api/wanttoread
4.10. Read	GET, POST, DELETE books from "Read" library	/api/active-tests