BOOK Inventory Management

**Step1:**

1. All Rest API request and response format must be in JSON.
2. 200, 201, 400, 404, 401, 500, 505 – use appropriate http status code in your response object.
3. Handle the Rest exceptions globally using Rest exception handler for all endpoints.
4. Sample Error Responses are shown in below table, participants to identify error paths for all the Endpoints.
5. Test your Rest Api using Junit and Mockito.
6. Participants should not alter database schema under any circumstances except wherever changes are mentioned explicitly.
7. All GET and POST requests for customer are secured
8. Alter Picture column of Staff to URL
9. Remove username & password columns of Staff table instead use separate table for security

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| Endpoints | HTTP Verb/Method | Description | Success Response | Error Response |
| **/api/book/post** | POST | Add new Book object in DB | String: *Book added successfully* |  |
| **/api/books/** | GET | Get all book object | {Books} |  |
| **/api/book/{isbn}** | GET | Get Book object | Book |  |
| **/api/book/title/{title}** | GET | Get Book object with title | Book |  |
| **/api/book/category/{category}** | GET | Get Books of given category | {Books} |  |
| **/api/book/publisher/{publisherId}** | GET | Get Books published by a publisher | {Books} |  |
| **/api/book/update/title/{isbn}** | PUT | Update title of Book object with given ISBN | Book |  |
| **/api/book/update/description/{isbn}** | PUT | Update description of Book object with given ISBN | Book |  |
| **/api/book/update/category/{isbn}** | PUT | Update category of Book object with given ISBN | Book |  |
| **/api/book/update/edition/{isbn}** | PUT | Update edition of Book object with given ISBN | Book |  |
| **/api/book/update/publisher/{isbn}** | PUT | Update publisher Object of Book object with given ISBN | Book |  |

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| Endpoints | HTTP Verb/Method | Description | Success Response | Error Response |
| **/api/author/post** | POST | Add new Author object in DB | String: *Author added successfully* |  |
| **/api/author/{authorId}** | GET | Get author object with given Author ID | Author object |  |
| **/api/author/firstname/{firstname}** | GET | Get author with given first name | Author object |  |
| **/api/author/lastname/{lastname}** | GET | Get author with given last name | Author object |  |
| **/api/author/update/firstname/{authorId}** | PUT | Update first name for the given Author ID | Author |  |
| **/api/author/update/lastname/{authorId}** | PUT | Update last name for the given Author ID | Author |  |
| **/api/author/books/{authorId}** | GET | Get all books of an author | {Books} |  |

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| Endpoints | HTTP Verb/Method | Description | Success Response | Error Response |
| **/api/publisher/post** | POST | Add new publisher object | String: *Publisher added successfully* |  |
| **/api/publishers** | GET | Get all publishers | {Publisher} |  |
| **/api/publisher/{publisherId}** | GET | Get publisher object with given ID | Publisher |  |
| **/api/publisher/name/{name}** | GET | Get publisher object with given name | Publisher |  |
| **/api/publisher/city/{city}** | GET | Get all publishers in a city | {Publisher} |  |
| **/api/publisher/state/{state}** | GET | Get all publishers with given state name | {Publisher} |  |
| **/api/publisher/update/name/{publisherId}** | PUT | Update the publisher’s name with given id | Publisher |  |
| **/api/publisher/update/city/{publisherId}** | PUT | Update the publisher’s city with given id | Publisher |  |
| **/api/publisher/update/state/{publisherId}** | PUT | Update the publisher’s state with given state | Publisher |  |

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| Endpoints | HTTP Verb/Method | Description | Success Response | Error Response |
| **/api/state/post** | POST | Add new state object | String: *State added successfully* |  |
| **/api/states** | GET | Get all states | {State} |  |
| **/api/state/{stateId}** | GET | Get state with given state ID | State |  |
| **/api/state/update/name/{stateId}** | PUT | Update state’s name with given state ID | State |  |

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| Endpoints | HTTP Verb/Method | Description | Success Response | Error Response |
| **/api/user/post** | POST | Add new user object | String: *User added successfully* |  |
| **/api/user/{userId}** | GET | Get user with given id | User |  |
| **/api/user/update/firstname/{userId}** | PUT | Update first name with given Id | User |  |
| **/api/user/update/lastname/{userId}** | PUT | Update last name with given Id | User |  |
| **/api/user/update/phonenumber/{userId}** | PUT | Update phone number with given Id | User |  |

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| Endpoints | HTTP Verb/Method | Description | Success Response | Error Response |
| **/api/reviewer/post** | POST | Add new reviewer object | String: reviewer *added successfully* |  |
| **/api/reviewer/{reviewerId}** | GET | Get reviewer with given id | Reviewer |  |
| **/api/reviewer/name/{reviewerId}** | PUT | Update first name with given Id | Reviewer |  |
| **/api/reviewer/employedby/{reviewerId}** | PUT | Update employedby with given Id | Reviewer |  |

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| Endpoints | HTTP Verb/Method | Description | Success Response | Error Response |
| **/api/bookreview/post** | POST | Add new book review object | String: Book review *added successfully* |  |
| **/api/bookreview/{isbn}** | GET | Get book review with given id | Book Review |  |
| **/api/bookreview/update/rating/{isbn}** | PUT | Update rating with given Id | Book Review |  |
| **/api/bookreview/update/comments/{isbn}** | PUT | Update comments with given Id | Book Review |  |

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| Endpoints | HTTP Verb/Method | Description | Success Response | Error Response |
| **/api/bookinventory/post** | POST | Add new book inventory object | String: Book inventory *added successfully* |  |
| **/api/bookinventory/{inventoryId}** | GET | Get book inventory with given id | Book Inventory |  |
| **/api/bookinventory/update/purchased/{inventoryId}** | PUT | Update purchased with given Id | Book Inventory |  |

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| Endpoints | HTTP Verb/Method | Description | Success Response | Error Response |
| **/api/bookcondition/post** | POST | Add new book condition object | String: *Book condition* *added successfully* |  |
| **/api/bookcondition/{ranks}** | GET | Get book condition with given ranks | Book condition |  |
| **/api/bookcondition/update/description/{ranks}** | PUT | Update description with given ranks | Book condition |  |
| **/api/bookcondition/update/fullDescription/{ranks}** | PUT | Update full description with given ranks | Book condition |  |
| **/api/bookcondition/update/price/{ranks}** | PUT | Update price with given ranks | Book condition |  |

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| Endpoints | HTTP Verb/Method | Description | Success Response | Error Response |
| **/api/category/post** | POST | Add new category object | String: *category added successfully* |  |
| **/api/category/{catId}** | GET | Get category with given id | Category |  |
| **/api/category/update/description/{catId}** | PUT | Update description with given Id | Category |  |

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| Endpoints | HTTP Verb/Method | Description | Success Response | Error Response |
| **/api/shoppingcart/post** | POST | Add new shopping cart object | String: *Shopping cart added successfully* |  |
| **/api/ shoppingcart /{userId}** | GET | Get cart with given id | Shopping cart |  |
| **/api/ shoppingcart /update/isbn/{userId}** | PUT | Update isbn with given Id | Shopping cart |  |

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| Endpoints | HTTP Verb/Method | Description | Success Response | Error Response |
| **/api/purchaselog/post** | POST | Add new purchaselog object | String: *Purchase Log added successfully* |  |
| **/api/purchaselog/{userId}** | GET | Get purchase log for the given userid | Purchase Log |  |
| **/api/purchaselog/update/inventoryid/{userId}** | PUT | Update inventory Id of purchase log given user id | Purchase log |  |

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| Endpoints | HTTP Verb/Method | Description | Success Response | Error Response |
| **/api/permrole/post** | POST | Add new permrole object | String: *permissionrole added successfully* |  |
| **/api/permrole/{rolenumber}** | GET | Get permrole object for the given rollnumber | Permrole object |  |
| **/api/permrole/update/permeole/{rolenumber}** | PUT | Update perm role of a given role number | Permrole |  |