**API Document for Bookstore**

1. **Registration:**

Registers a user with the system and returns a response appropriately

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/register |

**Request:**

|  |  |  |
| --- | --- | --- |
| **Type** | **Body** | **Values** |
| **POST** | {  "firstName": <firstName>,  "lastName": <lastName>,  "address": <address>,  "city": <city>,  "state": <state>,  "zipcode": <zipcode>,  "phone": <phone>,  "email": <email>,  "password": <password>,  "role": <role>, } | firstName : 128 chars maximum, String lastName: 128 chars maximum, String address: 1024 chars maximum, String city: 128 chars maximum, String state: 128 chars maximum, String zipcode: 6 chars maximum, Integer phone: 10 chars maximum, Integer email: 128 chars maximum, String password: 128 chars maximum, String  role: one of 3 enum types, “farmer”, “admin”, “customer” |

**Response:**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {  "status": 200,  "id": <profile id> } |
| **400** | {  "status": 400,  "errmsg": "Error: Required fields <field\_name1>, <field\_name2>.. are not provided"  } |

1. **Login:**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/login |

**Request:**

|  |  |  |
| --- | --- | --- |
| **Type** | **Body** | **Values** |
| **POST** | {  "email": <email>,  "password": <password>  } | email: 128 chars maximum, String password: 128 chars maximum, String |

**Response:**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {  "status": 200,  "profile": {  "firstName": <firstName>,  "lastName": <lastName>,  "address": <address>,  “city": <city>,  "state": <state>,  "zipcode": <zipcode>,  "phone": <phone>,  "email": <email>,  "password": <password>,  "role": <role>,  }  } |
| **401** | {  "status": 401,  "errmsg": "Either Username or Password are incorrect"  } |
| **401** | {  "status": 401,  "errmsg": "User does not exist"  } |

1. **Logout:**

|  |  |  |
| --- | --- | --- |
| **Method** | | **URL** |
| **POST** | | api/logout |
| **Request:** | |  |
| **Type** | **Body** | **Values** |
| **POST** | { } |  |

**Response:**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {  "status": 200,  "message": "successful” } |

**4. AddToCart :**

|  |  |  |
| --- | --- | --- |
| **Method** | | **URL** |
| **POST** | | api/addToCart |
| **Request:** | |  |
| **Type** | **Body** | **Values** |
| **POST** | { “bookId” : <bookId> ,  “quantity” : <quantity> } | bookId : String,  quantity : Integer |

**Response:**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {  "status": 200,  "message":"Added Successfully” } |
| **500** | {  “status” : “Server Error”  } |
| **400** | {  “status” : “Invalid Inputs” |

**5. viewCart**

|  |  |  |
| --- | --- | --- |
| **Method** | | **URL** |
| **GET** | | api/ViewCart |
| **Request:** | |  |
| **Type** | **Parameters** | **Values** |
| **GET** | { “customerId” : <customerId>  } | customerId : String |

**Response:**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {  "status": 200,  "bookName" : <bookName>,  “quantity” : <quantity>,  “price” : <price> } |
| **500** | {  “status” : “Server Error”  } |
|  |  |

**6. removeFromCart**

|  |  |  |
| --- | --- | --- |
| **Method** | | **URL** |
| **DELETE** | | api/removeFromCart |
| **Request:** | |  |
| **Type** | **Parameters** | **Values** |
| **DELETE** | { “bookId” : <bookId> } | bookId : String |

**Response:**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {  "status": 200,  "message" : "Removed Successfully” } |
| **500** | {  “status” : “Server Error”  } |
| **400** | {  “status” : “Invalid Inputs” |

**7.** **View Profile:**

View the profile of the customer

|  |  |  |
| --- | --- | --- |
| **Method** | | **URL** |
| **GET** | | api/viewProfile |
| **Request:** | |  |
| **Type** | **Parameters** | **Values** |
| **GET** | {  "customerId": <customerId>  } | customerId: String |

**Response:**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {  "firstName": <firstName>,  "lastName": <lastName>,  "address": <address>,  "city": <city>,  "state": <state>,  "zipcode": <zipcode>,  "phone": <phone>,  "email": <email>,  } |
| **500** | {  “status” : “Server error”  } |

**8.** **Edit Profile:**

Customer edits his profile and saves it

|  |  |  |
| --- | --- | --- |
| **Method** | | **URL** |
| **POST** | | api/editProfile |
| **Request:** | |  |
| **Type** | **Body** | **Values** |
| **POST** | {  "customerId": <customerId>,  “object to be updated”: <object> } | customerId: String  object to be updated: Object |

**Response:**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {  "firstName": <firstName>,  "lastName": <lastName>,  "address": <address>,  "city": <city>,  "state": <state>,  "zipcode": <zipcode>,  "phone": <phone>,  "email": <email>,  } |
| **500** | {  “status” : “Server error”  } |

**9.** **View order history:**

Customer views his order history

|  |  |  |
| --- | --- | --- |
| **Method** | | **URL** |
| **GET** | | api/viewHistory |
| **Request:** | |  |
| **Type** | **Body** | **Values** |
| **GET** | {  "customerId": <customerId>  } | customerId: String |

**Response:**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {  "orderNumer ": <orderNumer>,  "bookObjects": < bookObjects >,  "totalAmount": < totalAmount >  } |
| **500** | {  “status” : “Server error”  } |

**10. Select Book:**

Gets details for a particular book:

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/selectbook |

**Request:**

|  |  |  |
| --- | --- | --- |
| **Type** | **Body** | **Values** |
| **GET** | {  "bookID":<BookID>  } | BookID : Integer |

**Response:**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {            "status": 200,            "bookID": <Book ID>,  "bookName": <Book Name>,  "bookCost": <Book Cost>,  "bookAuthor": <Book Author>,  "bookISBN": <Book ID>,  "bookImage": <Book Image>,  "bookCategory": <Book Category>,  "bookDescription": <Book Description>,  } |
| **400** | {            "status": 400,            "error": "Invalid book ID"  } |
| **500** | {  "status": 500,            "error": "Server Error"  } |

**11.  Select Category:**

**Get a list of books based on the specified category**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/lselectcategory |

**Request:**

|  |  |  |
| --- | --- | --- |
| **Type** | **Body** | **Values** |
| **GET** | {       "bookCategory": <bookCategory>  } | bookCategory: 128 chars maximum, String password: 128 chars maximum, String |

**Response:**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {           “bookList”: “List of Book Objects”  } |
| **400** | {            "status": 400,            "error": "Invalid book category"  } |
| **500** | {  "status": 500,            "error": "Server Error"  } |

**12.    Search:**

**Search a particular book based on name/ author/ category**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/lsearchbook |

**Request:**

|  |  |  |
| --- | --- | --- |
| **Type** | **Body** | **Values** |
| **GET** | {       "searchField": <searchField>  } | searchField: 128 chars maximum, String password: 128 chars maximum, String |

**Response:**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {           “bookList”: “List of Book Objects”  } |
| **400** | {            "status": 400,            "error": "Invalid search field"  } |
| **500** | {  "status": 500,            "error": "Server Error"  } |

**13.**               **Cancel Order:**

Cancel’s the order of the customer and returns appropriate response

|  |  |
| --- | --- |
| **Method** | **URL** |
| **Update** | api/cancel |

**Request:**

|  |  |  |
| --- | --- | --- |
| **Type** | **Body** | **Values** |
| **UPDATE** | {            "order\_id": <order\_id>  , } | Integer Order\_id : 30 chars maximum” |

**Response:**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {            "status": 200,  "msg": cancelled,            "id": <profile id> } |
| **500** | {  “Status”: 500,  “error”: “internal server error” |

**14.    Confirm Order:**

**Confirm customer order**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/confirm |

**Request:**

|  |  |  |
| --- | --- | --- |
| **Type** | **Body** | **Values** |
| **GET** | {       "order\_id": <order\_id>  } | order\_id: 30 chars maximum, Integer. |

**Response:**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {           “bookList”: “List of Book Objects”  “order\_id”:”order\_id,  “first\_name”:”first\_name”,  “last\_name”: “last\_name”,  “totalAmount”: “final amount”.  } |
| **500** | {  "status": 500,            "error": "Server Error"  } |

**15.    Checkout:**

**Confirm customer order**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/checkout |

**Request:**

|  |  |  |
| --- | --- | --- |
| **Type** | **Body** | **Values** |
| **GET** | {       "order\_id": <order\_id>  “payment\_type”:<payment\_type>  } | order\_id: 30 chars maximum, Integer, payment\_type: 50 chars maximum, String |

**Response:**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {           “bookList”: “List of Book Objects”  “order\_id”:”order\_id,  “first\_name”:”first\_name”,  “last\_name”: “last\_name”,  “totalAmount”: “final amount”.  } |
| **400** | {  “status”:400  “error”: “invalid card number”  } |
| **500** | {  "status": 500,            "error": "Server Error"  } |