**Web services - BookService,Bookstore,Library**

**BOOK SERVICE -** https:/localhost:8080/

|  |  |  |  |
| --- | --- | --- | --- |
| **Request/ URI** | **Description** | **Request body** | **Response body** |
| POST  /login | Get session key in order to make authorized requests, url in order to redirect to desired web service and usertype in order to display appropriate GUI | {  "email": "email",  "password": "pwd" } | {  "institutionId": "iId",  "url": "url",  "sessionKey": "SK",  "userType": "Customer",  "name": "uName",  "userId": "uId"  } |
| GET  /checkSK/sessionKey/institutionId | Get the expiration date of passed session key |  | expiration date as string in format:  “yyyy MMM dd HH:mm:ss” |
| GET  / search?searchTerm=searchterm | Get list of books matching the searching criteria |  | [{  "isbn": "ISBN",  "title": "title",  "author": "author",  "year": 2014.0,  "category": "Science"  }, {  "isbn": "ISBN",  "title": "title",  "author": "author",  "year": 2017.0,  "category": "Science"  }] |
| GET  /advancedSearch?title=title&author=author&year=year&isbn=isbn&category=category | Get list of books matching the searching criteria(not all fields have to be specified) |  | [{  "isbn": "ISBN",  "title": "title",  "author": "author",  "year": 2014.0,  "category": "Science"  }, {  "isbn": "ISBN",  "title": "title",  "author": "author",  "year": 2017.0,  "category": "Science"  }] |
| GET  /bookDetails/isbn | Get details of the book searched by isbn (including title,author,year,isbn,category), list of libraries (libraryid,name,quantity of books with given isbn in that library) and the list of bookstores that offer book of given ISBN |  | {  "book": {  "isbn": "ISBN",  "title": "TITLE",  "author": "AUTHOR",  "year": 2000,  "category": "Science"  },  "libraries": [{  "libraryName": "Xx",  "libraryid": "lid1",  "quantity": 0.0  }, {  "libraryName": "Xxx",  "libraryid": "lid2",  "quantity": 3.0  }],  "bookstores": [{  "bookstoreid": "id",  "name": "name"  }] } |
| POST  /borrow |  | {  "isbn": "isbn",  "institutionId": "lid",  "customerID": "cid" } | {"status":"OK","content":"Added"} |
| POST  /buy |  | {  "isbn": "isbn",  "institutionId": "id",  "customerID": "cid" } | {"status":"OK","content":"Added"} |
| POST  /signUp | Add a customer to the system | {  "name": "name",  "email": "email",  "address": "addr",  "phoneNum": 1111,  "password": “pwd” } | {"status":"OK","content":"Customer created"}  {"status":"Error","content":"Email already in use"} |
| DELETE  /logout | Delete session key from cache |  | {"status":"OK","content":"Logged out"} |

**BOOKSTORE (admin) -** https://localhost:9090/

|  |  |  |  |
| --- | --- | --- | --- |
| **Request/ URI** | **Description** | **Request body** | **Response body** |
| GET  / search?searchTerm=searchterm | Get list of books matching the searching criteria |  | [{  "title": "title",  "author": "author",  "year": 2000,  "isbn": "ISBN1",  "category": "Drama"  }, {  "title": "title",  "author": "author",  "year": 2000,  "isbn": "ISBN3",  "category": "Fantasy"  }] |
| GET  /advancedSearch?title=title&author=author&year=year&isbn=isbn&category=category | Get list of books matching the searching criteria(not all fields have to be specified) |  | [{  "title": "title",  "author": "author",  "year": 2000,  "isbn": "ISBN1",  "category": "Drama"  }, {  "title": "title",  "author": "author",  "year": 2000,  "isbn": "ISBN3",  "category": "Fantasy"  }] |
| GET  /orders |  |  | [{  "orderId": "id1",  "isbn": "978-80",  "bookName": "bName",  "customerName": "cName",  "customerEmail": "cEmail",  "customerAddress": "cAdr",  "customerPhoneNum": 123  }, {  "orderId": "id2",  "isbn": "978-80",  "bookName": "bName",  "customerName": "cName",  "customerEmail": "cEmail",  "customerAddress": "cAdr",  "customerPhoneNum": 123  }] |
| DELETE  /orders/orderId | Delete order from BookStoreOrderList = Confirm the order |  | “OK” |
| POST  /book | Add a book to the system | {  "title": "title",  "author": "author",  "year": 2000,  "isbn": "ISBN1",  "category": "Drama"  } | “OK” |
| DELETE  /book/isbn | Delete a book from the system |  | “OK” |
| DELETE  /logOut | Delete session key from cache |  | {"status":"OK","content":"Logged out"} |

**LIBRARY (admin) -** https://localhost:5001

|  |  |  |  |
| --- | --- | --- | --- |
| **Request/ URI** | **Description** | **Request body** | **Response body** |
| GET  / search?searchTerm=searchterm | Get list of books matching the searching criteria |  | [{  "title": "title",  "author": "author",  "year": 2000,  "isbn": "ISBN1",  "category": "Drama"  }, {  "title": "title",  "author": "author",  "year": 2000,  "isbn": "ISBN3",  "category": "Fantasy"  }] |
| GET  /advancedSearch?title=title&author=author&year=year&isbn=isbn&category=category | Get list of books matching the searching criteria(not all fields have to be specified) |  | [{  "title": "title",  "author": "author",  "year": 2000,  "isbn": "ISBN1",  "category": "Drama"  }, {  "title": "title",  "author": "author",  "year": 2000,  "isbn": "ISBN3",  "category": "Fantasy"  }] |
| GET  /bookDetails/isbn | Get details of the book searched by isbn (including title,author,year,isbn,category and the list of physical library books with the availability) |  | {  "book": {  "title": "title",  "author": "author",  "year": 2000,  "isbn": "ISBN3",  "category": "Fantasy"  },  "libraryBooks": [{  "bookid": "id",  "available": true  }, {  "bookid": "id",  "available": true  }, {  "bookid": "id",  "available": true  }]  } |
| GET  /orders | Get library orders with information (orderID,isbn,bookName,dateOfOrder and returnDate, customer’s name, email, address and phone num. |  | [{  "orderId": "id1",  "isbn": "7758-0",  "bookName": "bName",  "dateOfOrder": {  "year": 2018,  "month": 11,  "dayOfMonth": 1,  "hourOfDay": 0,  "minute": 0,  "second": 0  },  "returnDate": {  "year": 2018,  "month": 11,  "dayOfMonth": 20,  "hourOfDay": 0,  "minute": 0,  "second": 0  },  "customerName": "CName",  "customerEmail": "cEmail",  "customerAddress": "cAdr",  "customerPhoneNum": 1111  }, {  "orderId": "id2",  "isbn": "7758-0",  "bookName": "bName",  "dateOfOrder": {  "year": 2018,  "month": 11,  "dayOfMonth": 1,  "hourOfDay": 0,  "minute": 0,  "second": 0  },  "returnDate": {  "year": 2018,  "month": 11,  "dayOfMonth": 20,  "hourOfDay": 0,  "minute": 0,  "second": 0  },  "customerName": "CName",  "customerEmail": "cEmail",  "customerAddress": "cAdr",  "customerPhoneNum": 1111  }] |
| DELETE  /orders/orderId | Delete order from libraryOrderList = Return book |  | Ok - “Book has been returned successfully” |
| POST  /book | Add a book to the system | {  "title": "title",  "author": "author",  "year": 2000,  "isbn": "ISBN1",  "category": "Drama"  } | Ok - “Book created successfully” |
| DELETE  /book/id | Delete a book from the system |  | Ok - “Book deleted” |
| DELETE  /logOut | Delete session key from cache |  | Ok - “Logged out” |