

## 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": "ild", "url": "url", "sessionKey": "SK", "userType": "Customer", "name": "uName", "userId": "uld" }
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?tit le=title&author=aut hor&year=year&isbn =isbn&category=cat egory	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?tit le=title&author=aut hor&year=year&isbn =isbn&category=cat egory	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 }] }

<p>GET /orders</p>	<p>Get library orders with information (orderId,isbn,book Name,dateOfOrder and returnDate, customer's name, email, address and phone num.</p>		<pre>[{   "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 }]</pre>
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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"