

<http://ip172-18-0-11-d3t813k69qi000eec9j0-8080.direct.labs.play-with-docker.com/>

Library Management Dashboard

Borrower Registered ✓ (BORR-00002)

Register Borrower

Borrower Name Borrower Email Register

Borrowers List Refresh

Code	Name	Email
BORR-00001	Alice	alice@email.com
BORR-00002	Bob	bob@email.com

Register Book

ISBN Number Book Title Author Name Add Book

Books List Refresh

Library Management Dashboard

Enter both name and email

Register Borrower

Borrower Name Borrower Email Register

Borrowers List Refresh

Code	Name	Email
BORR-00001	Alice	alice@email.com
BORR-00002	Bob	bob@email.com

Register Book

ISBN Number Book Title Author Name Add Book

Books List Refresh

Register Book

ISBN Number

Book Title

Author Name

Add Book

Books List

Refresh

Code	ISBN	Title	Author	Status	Borrower Code
BOOK-00001	12345	Head First Java	Kathy	Available	-
BOOK-00002	12345	Head First Java	Kathy	Available	-

Borrow / Return Book

Select Borrower

Select Book

Borrow

Return

Test Double Borrow

Register Book

ISBN Number

Book Title

Author Name

Add Book

Books List

Refresh

Code	ISBN	Title	Author	Status	Borrower Code
BOOK-00001	12345	Head First Java	Kathy	Available	-
BOOK-00002	12345	Head First Java	Kathy	Available	-

Borrow / Return Book

BORR-00001 - Alice

BOOK-00002 - Head First Java

Borrow

Return

Test Double Borrow

Bookmarks

Books List

Refresh

Code	ISBN	Title	Author	Status	Borrower Code
BOOK-00001	12345	Head First Java	Kathy	Available	-
BOOK-00002	12345	Head First Java	Kathy	Available	-

Borrow / Return Book

BORR-00001 - Alice

BOOK-00002 - Head First Java

Borrow

Return

Test Double Borrow

Borrowed Book History

Refresh

Book Code	Title	Borrower	Borrow Date	Return Date	Status
BOOK-00001	Head First Java	BORR-00001 - Alice	23/10/2025, 9:03:44 pm	23/10/2025, 9:04:05 pm	Returned

Swagger

<http://ip172-18-0-11-d3t813k69qi000eec9j0-8080.direct.labs.play-with-docker.com/swagger-ui/index.html#/>

The screenshot shows a web browser window displaying the Swagger UI for the 'Library Management API'. The browser's address bar shows the URL: `http://ip172-18-0-11-d3t813k69qi000eec9j0-8080.direct.labs.play-with-docker.com/swagger-ui/index.html#/`. The Swagger UI header includes the Swagger logo, the API name 'Library Management API' with version '1.0.0' and 'OAS3' tags, and a search bar containing '/v3/api-docs'. Below the header, a 'Servers' dropdown menu is set to 'http://ip172-18-0-11-d3t813k69qi000eec9j0-8080.direct.labs.play-with-docker.com - Generated server url'. The main content area is divided into three sections: 'borrower-controller', 'book-controller', and 'borrow-history-controller'. Each section lists its endpoints with their respective HTTP methods. The 'borrower-controller' has two endpoints: GET /api/borrowers and POST /api/borrowers. The 'book-controller' has four endpoints: GET /api/books, POST /api/books, POST /api/books/return/{bookCode}, and POST /api/books/borrow/{bookCode}. The 'borrow-history-controller' has three endpoints: GET /api/history, GET /api/history/borrower/{code}, and GET /api/history/book/{code}. At the bottom, a 'Schemas' section lists five data models: BorrowerRequest, BorrowerResponse, BookRequest, BookResponse, and BorrowHistory, each with a right-pointing arrow to expand its details.

Swagger
Library Management API 1.0.0 OAS3
/v3/api-docs Explore

A simple RESTful API to manage borrowers and books.
Gnanaprakash - Website
Send email to Gnanaprakash

Servers
http://ip172-18-0-11-d3t813k69qi000eec9j0-8080.direct.labs.play-with-docker.com - Generated server url

borrower-controller

- GET /api/borrowers
- POST /api/borrowers

book-controller

- GET /api/books
- POST /api/books
- POST /api/books/return/{bookCode}
- POST /api/books/borrow/{bookCode}

borrow-history-controller

- GET /api/history
- GET /api/history/borrower/{code}
- GET /api/history/book/{code}

Schemas

- BorrowerRequest >
- BorrowerResponse >
- BookRequest >
- BookResponse >
- BorrowHistory >

For Test Coverage using JaCoCo
Run below maven command
mvn clean test
mvn jacoco:report

Open target/site/jacoco/index.html to view Test coverage.

library-api												
library-api												
Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.collabera.library.service	<div><div></div></div>	92%	<div><div></div></div>	70%	7	24	5	83	4	19	1	3
com.collabera.library.exception	<div><div></div></div>	69%	<div><div></div></div>	n/a	2	9	8	29	2	9	0	4
com.collabera.library.controller	<div><div></div></div>	81%	<div><div></div></div>	n/a	4	12	4	26	4	12	1	4
com.collabera.library.config	<div><div></div></div>	93%	<div><div></div></div>	60%	8	21	2	55	0	11	0	2
com.collabera.library.dto	<div><div></div></div>	0%	<div><div></div></div>	n/a	2	2	2	2	2	2	2	2
com.collabera.library	<div><div></div></div>	37%	<div><div></div></div>	n/a	1	2	2	3	1	2	0	1
com.collabera.library.model	<div><div></div></div>	100%	<div><div></div></div>	n/a	0	1	0	3	0	1	0	1
Total	101 of 851	88%	11 of 30	63%	24	71	23	201	13	56	4	17

From github

Summary

Jobs

build

Run details

Usage

Workflow file

build

succeeded 4 hours ago in 2m 11s

Search logs

> Set up job

1s

> Checkout repository

1s

> Set up JDK 17

0s

> Build and verify

57s

> Build Docker image

1m 8s

> List Docker images

0s

> Upload JaCoCo report

0s

> Post Set up JDK 17

1s

> Post Checkout repository

0s

> Complete job

0s