# Amazing Book Sample Request/Response payloads

**1. Book Management Service**

**API Endpoint: GET /books**

**Request**:

GET /books HTTP/1.1

Host: localhost:8080

Content-Type: application/json

**Response**:

[

{

"isbn": "9781234567890",

"title": "Amazing Book 1",

"author": "Author A",

"totalCopies": 10

},

{

"isbn": "9780987654321",

"title": "Amazing Book 2",

"author": "Author B",

"totalCopies": 5

}

]

API Endpoint: POST /books

**Request**:

POST /books HTTP/1.1

Host: localhost:8080

Content-Type: application/json

{

"isbn": "9781122334455",

"title": "New Amazing Book",

"author": "Author C",

"totalCopies": 8

}

**Response**

{

"isbn": "9781122334455",

"title": "New Amazing Book",

"author": "Author C",

"totalCopies": 8

}

**2. Issue Management Service**

**API Endpoint: POST /issues**

**Request**:

POST /issues HTTP/1.1 Host: localhost:8081 Content-Type: application/json { "isbn": "9781234567890", "custId": "cust123", "noOfCopies": 1 }

**Response**:

{

"id": 1,

"isbn": "9781234567890",

"custId": "cust123",

"noOfCopies": 1

}

**API Endpoint: GET /issues/{custId}**

**Request**:

GET /issues/cust123 HTTP/1.1

Host: localhost:8081

Content-Type: application/json

**Response**:

[ { "id": 1, "isbn": "9781234567890", "custId": "cust123", "noOfCopies": 1 } ]

**3. Authentication Service**

**API Endpoint: POST /oauth/token**

**Request**:

POST /oauth/token HTTP/1.1

Host: localhost:8082

Content-Type: application/x-www-form-urlencoded

Authorization: Basic Y2xpZW50OnNlY3JldA==

grant\_type=password&username=user1&password=pass123

**Response**:

{ "access\_token": "eyJhbGciOiJIUzI1...", "token\_type": "bearer", "expires\_in": 3600, "scope": "read write" }

**4. Service Discovery (Eureka)**

**API Endpoint: GET /eureka/apps**

**Request**:

GET /eureka/apps HTTP/1.1 Host: localhost:8761 Content-Type: application/json

**Response**

<applications> <application> <name>BOOKMS</name> <instance> <instanceId>localhost:bookms:8080</instanceId> <hostName>localhost</hostName> <status>UP</status> </instance> </application> </applications>

**5. Cross-Cutting Concerns Service**

**API Endpoint: Log Requests (Automatically Configured)**

**Sample Log Output**:

INFO: Request URI: /books

INFO: Request Payload: {"isbn":"9781122334455","title":"New Amazing Book","author":"Author C"}

INFO: Response Payload: {"isbn":"9781122334455","title":"New Amazing Book","author":"Author C"}