
System Requirements Specification

For

Library Services

Version 1.1

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Table of Contents

Version 1.0	1
Library Services.....	2
1 PROJECT ABSTRACT	2
2 Producer	3
3 Consumer	4
4 EXECUTION STEPS TO FOLLOW	5

Library Services

System Requirements Specification

1 PROJECT ABSTRACT

Library Management (Spring Boot + Kafka) use case

Use case is designed to implement Kafka messaging service to interact between a producer and consumer:

1. Producer: Producer is a Spring Boot RESTful Application, exposing REST endpoint to add and edit a book for issue. The information received in Producer is pushed to Kafka service queue, where it is available for Consumers to use it.
2. Consumer: Consumer is a part of same Spring Boot application, which will fetch message from Kafka and displays the same on console.

Following is the requirement specifications:

	Library Service
Producer	
1	Add a Book

2 Producer

REST Endpoints

URL Exposed		Purpose
1. /books		Add a new book
Http Method	POST	
Parameter	Book	
Return	Response Entity Status	

Model:

Book: Used to represent Book Model. Add required getter/setter methods.

Service:

KafkaBookProducerService: A Service Class That needs to be implemented for pushing kafka message whenever adding and updating the book request is received. This class must be used by Controller method.

Kafka Config:

KafkaProducerConfig : A config class that requires to add configuration for Producer

Topic:

Topics to be used must be as follows:

- a. For adding a new book: "addBook"

3 Consumer

Model:

Book: Used to represent Book Model. Add required getter/setter methods.

Kafka Config Class:

KafkaConsumerConfig: A config class that requires to add configuration for Consumer

Add required annotations wherever needed.

Kafka Consumer Service:

KafkaBookConsumerService: Implement the following methods:

- a. listenAddBook: Implement the method to receive the add book message from kafka and display the received book information on console and returns the same

Add required annotations wherever needed.

In main method of application call the Service methods to consume kafka message and display same on console

Kafka Config:

In application.properties file add required configuration

4 EXECUTION STEPS TO FOLLOW

- 1. All actions like build, compile, running application, running test cases needs to be done using respective options of eclipse.**
- 2. Mandatory: Before final submission run test cases**
- 3. Kafka Installation can be found in C drive**