

# Documentation Index

---

Welcome to the Spring Boot Backend documentation!

## Reading Order

Please read these documents in **numerical order**:

**1** [1\\_START\\_HERE.md](#) ★ START HERE

**Time:** 5 minutes

**Purpose:** Quick orientation, what you asked for, and quick test

**Read this first!**

---

**2** [2\\_OVERVIEW.md](#)

**Time:** 15 minutes

**Purpose:** High-level overview, key concepts, and architecture

---

**3** [3\\_COMPLETE\\_SETUP\\_GUIDE.md](#)

**Time:** 45 minutes

**Purpose:** Detailed setup instructions (31 sections covering everything)

---

**4** [4\\_QUICK\\_START.md](#)

**Time:** 5 minutes

**Purpose:** Quick reference for common commands and API endpoints

---

**5** [5\\_FLYWAY\\_WORKFLOW.md](#)

**Time:** 15 minutes

**Purpose:** How to manage database migrations with Flyway

**Critical:** Read this before making schema changes!

---

**6** [6\\_RUST\\_INTEGRATION.md](#)

**Time:** 20 minutes

**Purpose:** Complete Rust code to integrate with the Spring Boot backend

---

## Quick Start

If you just want to run it right now:

```
cd backend-spring
./gradlew bootRun
```

Then come back and read [1\\_START\\_HERE.md](#)

## Find What You Need

I want to...	Read this document
Get started quickly	#1 START_HERE
Understand the architecture	#2 OVERVIEW
Set up everything	#3 COMPLETE_SETUP_GUIDE
Find common commands	#4 QUICK_START
Change database schema	#5 FLYWAY_WORKFLOW
Connect to Rust	#6 RUST_INTEGRATION

## ? Your Questions Answered

Your three questions are answered in these documents:

### 1. How do JPA entity changes create SQL files for Flyway?

- Answer in: #5 FLYWAY\_WORKFLOW

### 2. How to apply SQL file to schema?

- Answer in: #3 COMPLETE\_SETUP\_GUIDE (section 6)

### 3. How to launch from Rust with embedded JRE?

- Answer in: #6 RUST\_INTEGRATION

## Progress Tracker

Use this to track your reading:

- ☐ Read #1 START\_HERE
- ☐ Read #2 OVERVIEW
- ☐ Read #3 COMPLETE\_SETUP\_GUIDE
- ☐ Read #4 QUICK\_START
- ☐ Read #5 FLYWAY\_WORKFLOW
- ☐ Read #6 RUST\_INTEGRATION

- ☐ Tested: Run `./gradlew bootRun`
- ☐ Tested: API endpoints with curl
- ☐ Practiced: Created a migration
- ☐ Implemented: Rust integration

---

## File Organization

All documentation is numbered for easy reading:

```
docs/
├── 0_READ_ME_FIRST.md           ← You are here
├── README.md                   ← Documentation index
├── 1_START_HERE.md             ← Start here! ★
├── 2_OVERVIEW.md               ← Overview
├── 3_COMPLETE_SETUP_GUIDE.md   ← Complete guide
├── 4_QUICK_START.md            ← Quick reference
├── 5_FLYWAY_WORKFLOW.md        ← Migrations
└── 6_RUST_INTEGRATION.md       ← Rust code
```







---

## Time Estimate

- **Quick start:** 10 minutes (read #1, run backend)
- **Basic understanding:** 30 minutes (read #1, #2, #4)
- **Complete understanding:** 2 hours (read all 6 documents)
- **Full implementation:** 1-2 days (read all + implement integration)

---


## What's Included

-  Complete Spring Boot project (working and tested)
-  6 comprehensive documentation files
-  JPA entities + REST APIs
-  Flyway migrations configured
-  Rust integration examples
-  Development and production setup

---

## Ready to Begin?

 Start with [1\\_START\\_HERE.md](#)

Good luck! 

---

**Created:** October 30, 2025

**Status:**  Complete and organized

**Total Documentation:** 6 files, ~100 pages

