

Spring Framework: Overview of Spring Data

WHAT IS SPRING DATA?



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Overview

What is Spring Data?

The benefits of Spring Data

Choosing a Spring Data module

Setting up our first project



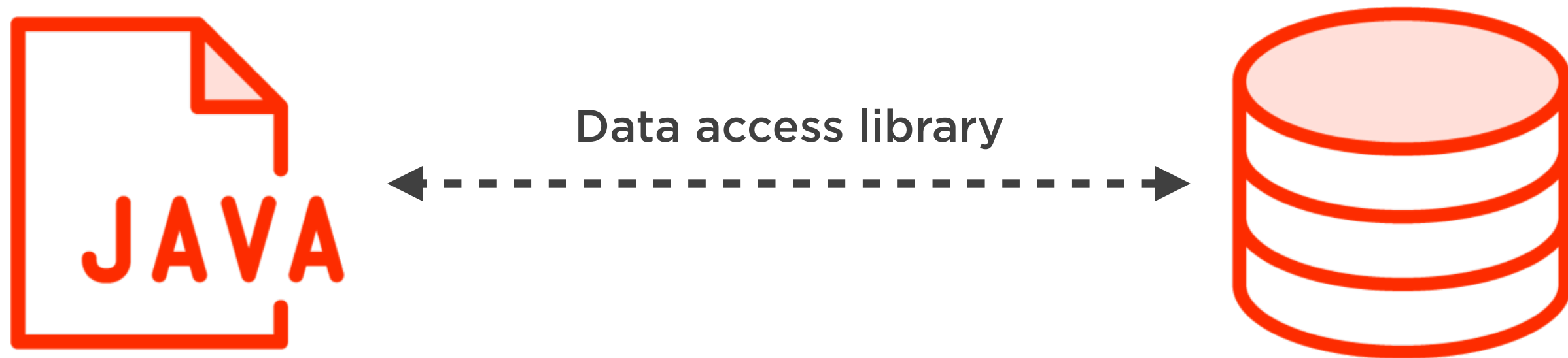
Spring Data is a collection of
data-access projects that
share a common
programming model



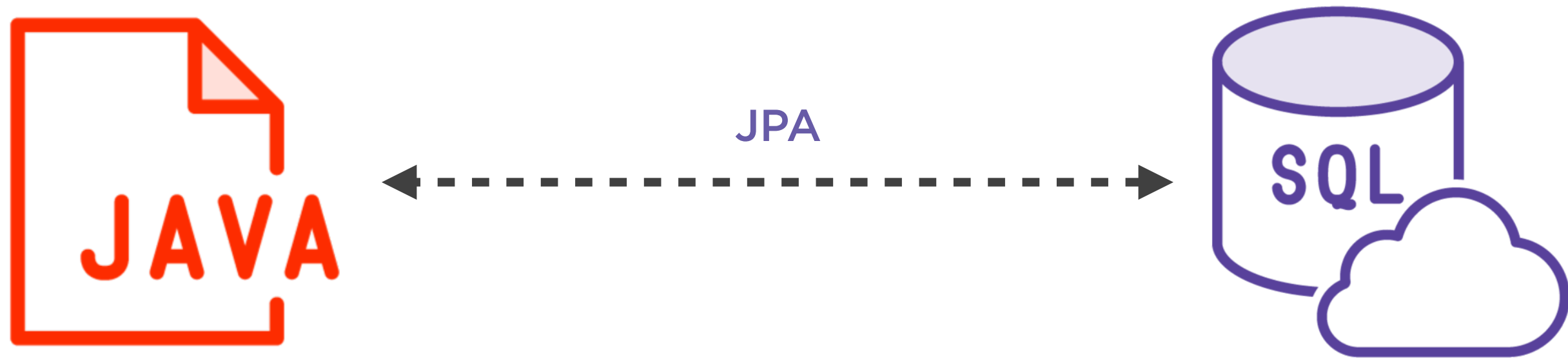
A World Without Spring Data



A World Without Spring Data



A World Without Spring Data



A World Without Spring Data



The Spring Data Project



Spring Data Abstractions

CRUD

Derived queries

Transactions

Pagination

Sorting

More



The Benefits of Spring Data



Consistent programming model

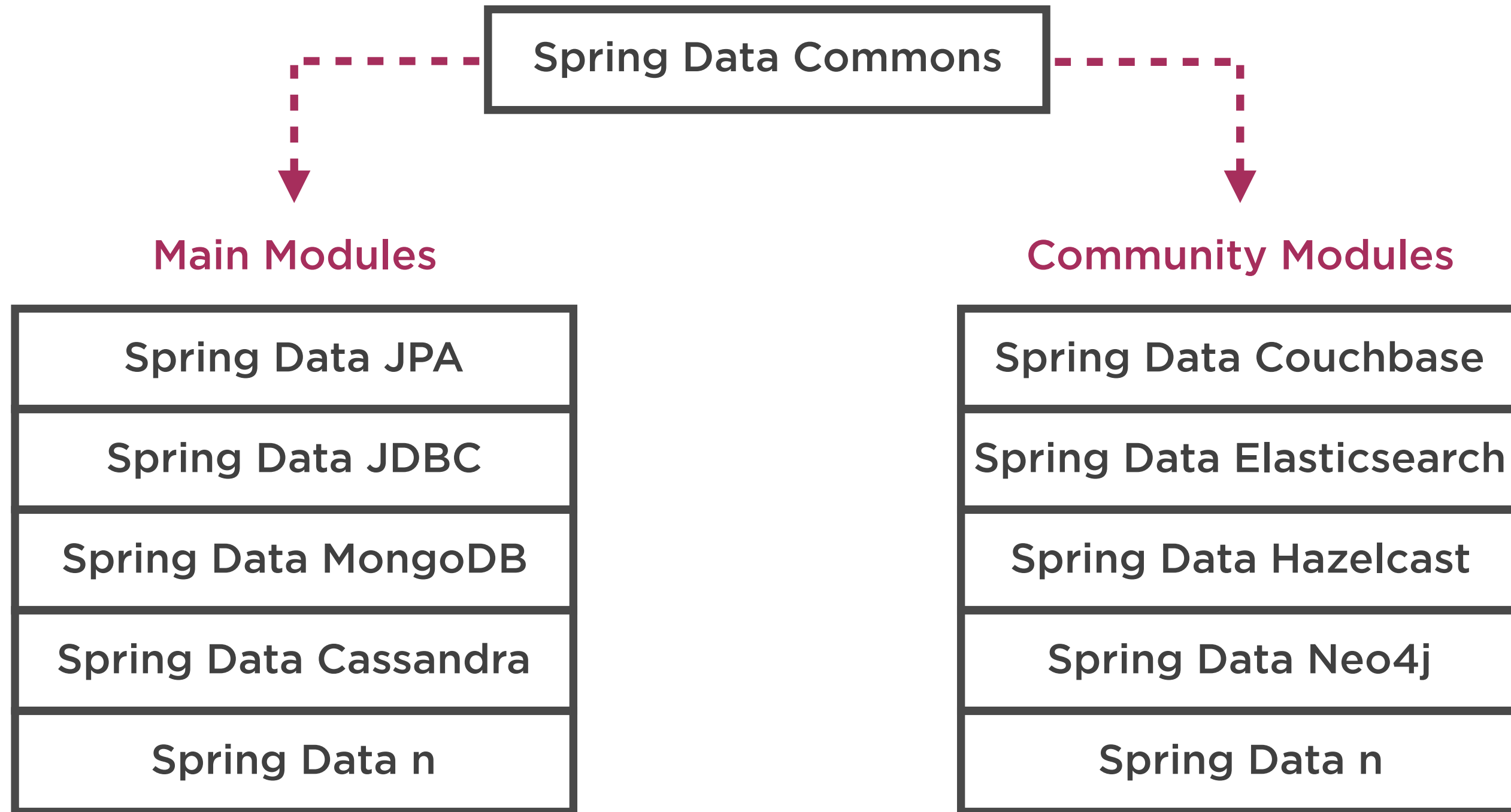
- Same abstractions for all modules
- Rarely touch underlying libraries
- Easy to learn additional modules

Reduces boilerplate

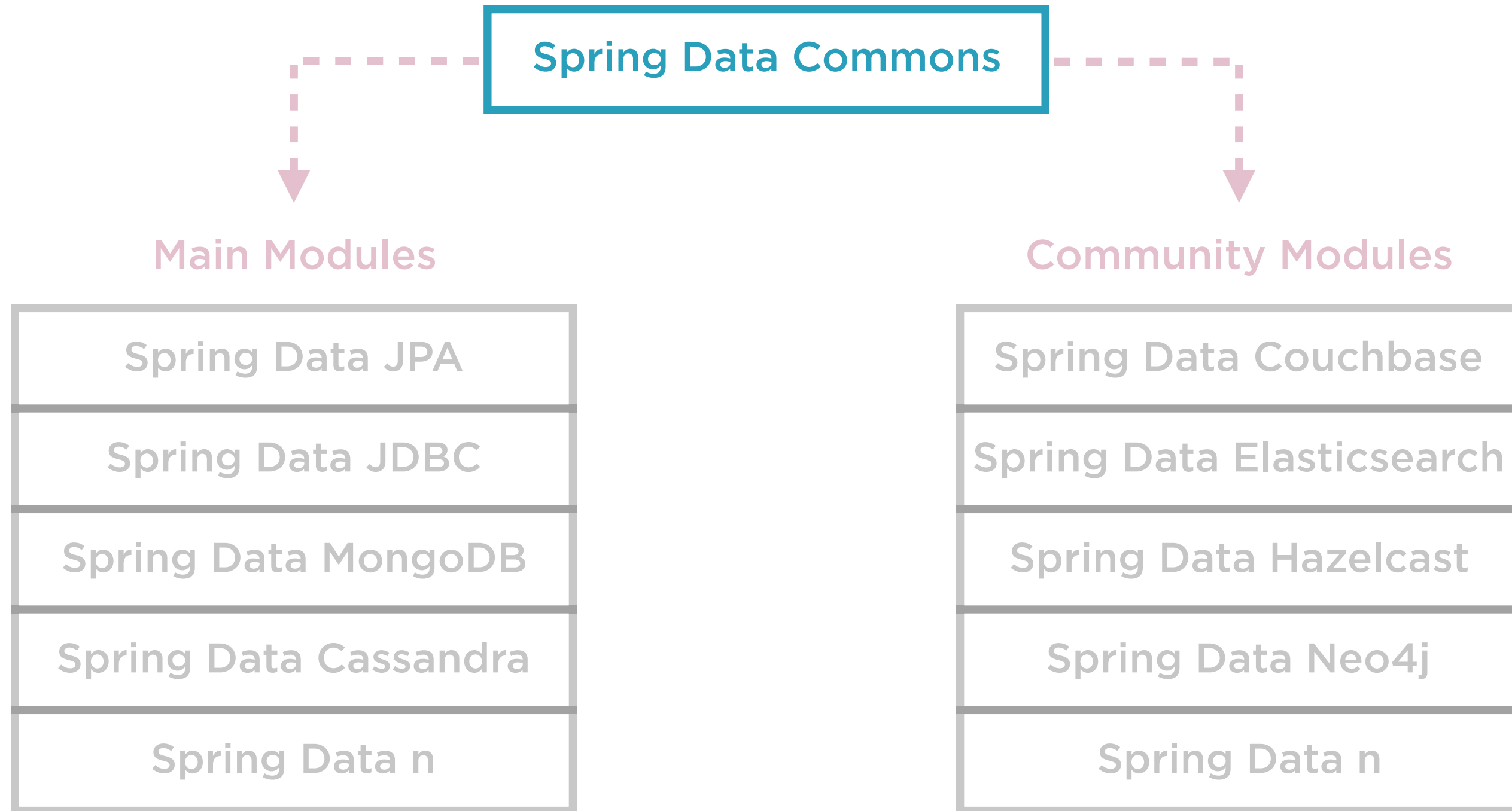
Integrations easily into Spring Boot



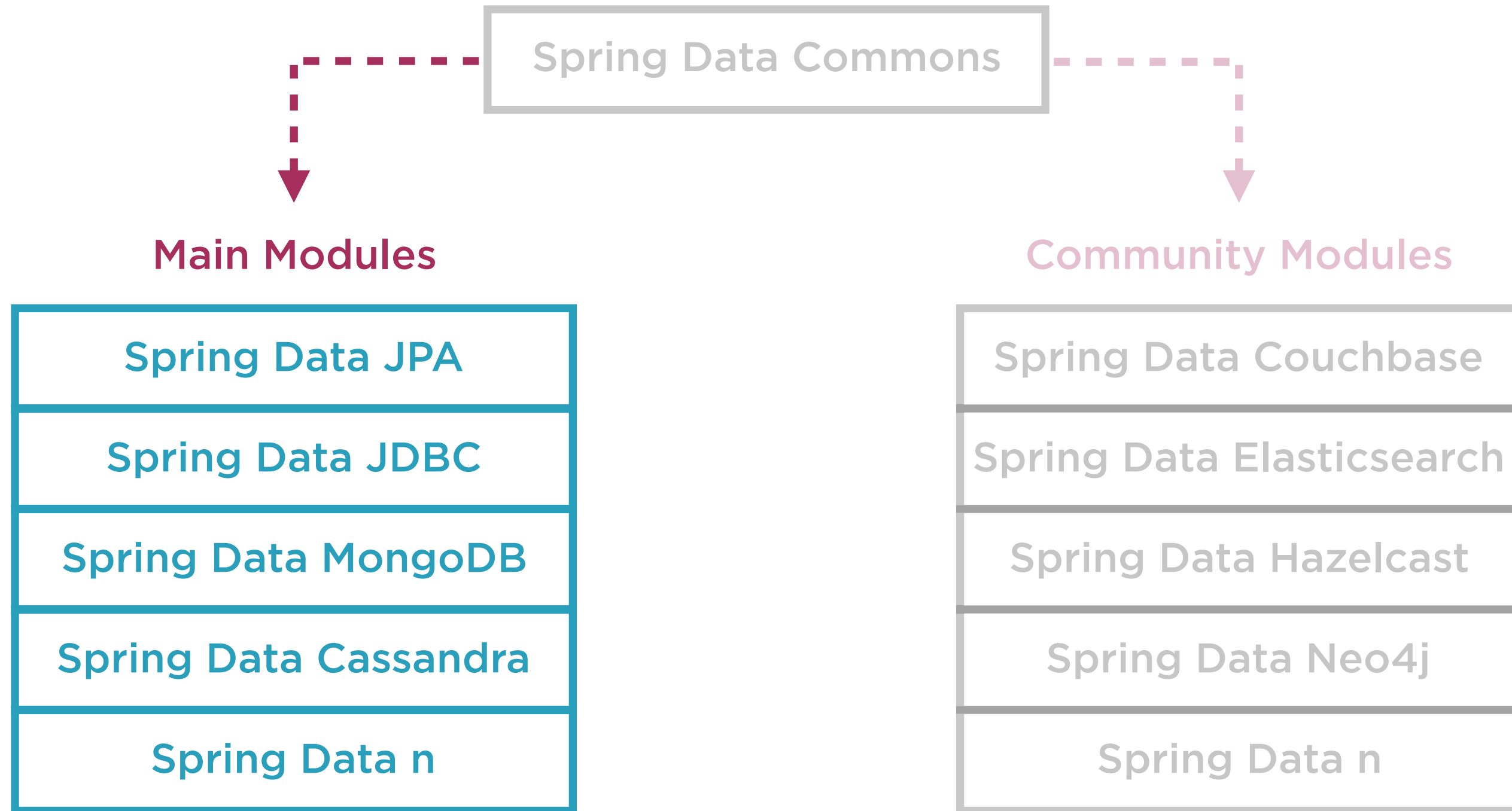
Spring Data Module Hierarchy



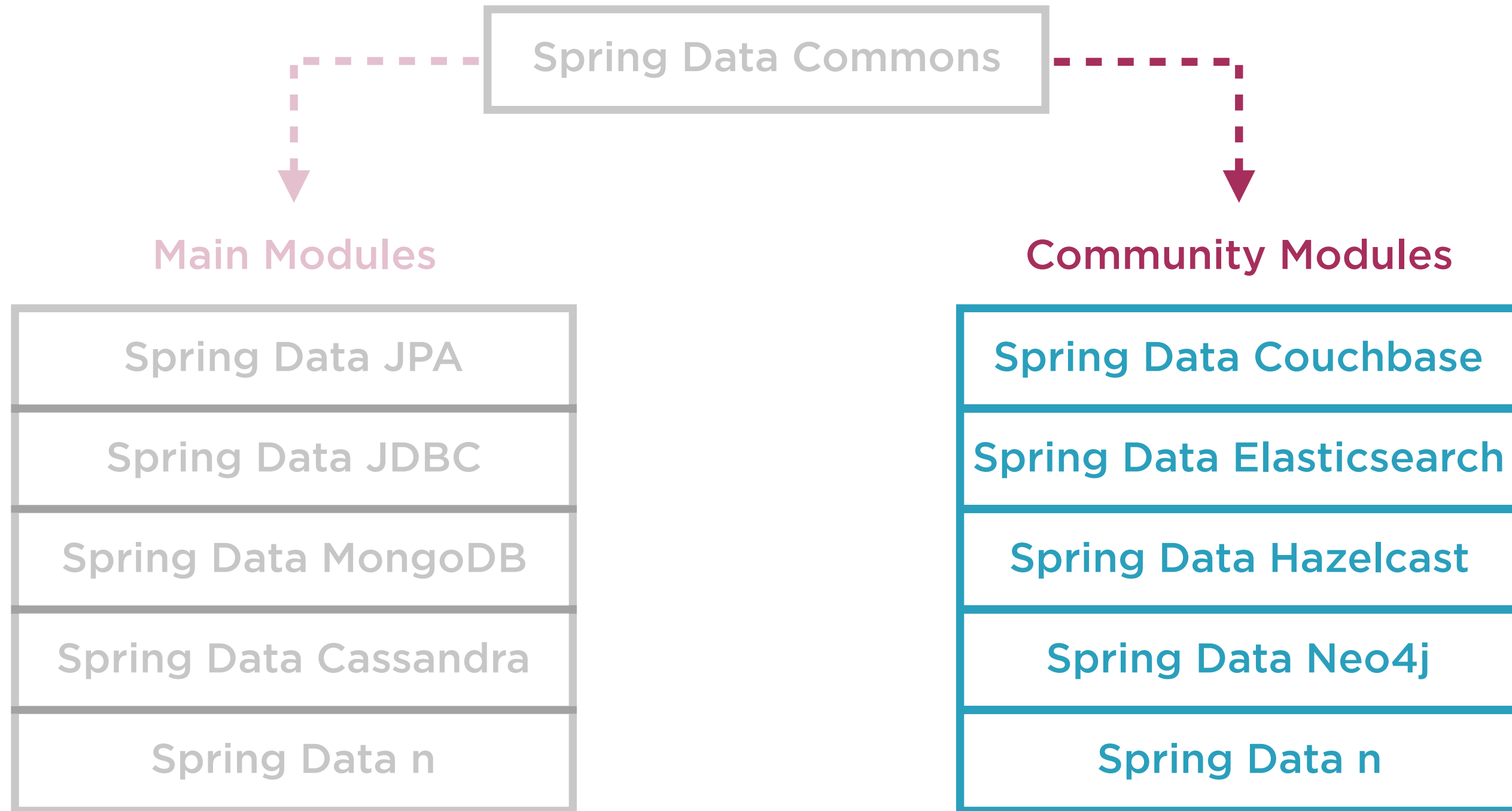
Spring Data Module Hierarchy



Spring Data Module Hierarchy



Spring Data Module Hierarchy





What we'll be focusing on

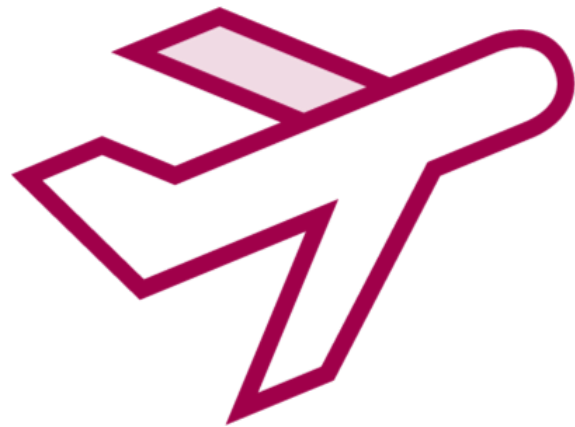
- Spring Data commons
- Querying with the repository interface
- Using Spring Data JPA and MongoDB only as a POC
- Introduction to transactions

What this course is not about

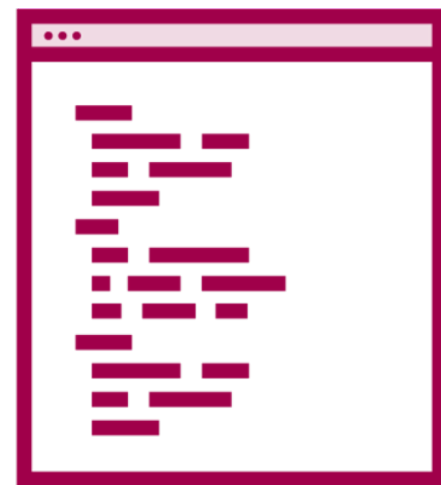
- Hibernate, JPA, or any other ORM
- Core Spring or Spring Boot
- Batch processing



Demo Project Overview



**Flight arrivals
database**



**Spring Boot
project**



**Will use Spring
Data JPA as POC**



**Embedded H2
database**



Demo

Creating our project using Spring Initializr

Creating a database schema

Mapping a flight entity

Verify our application boots with a test



Summary

Spring Data is an umbrella project for multiple data access modules

All modules implement the same abstractions

It reduces boilerplate

It has a gentle learning curve to help you get started quickly

We'll be focusing on Spring Data commons throughout this course

