

Test Your Persistence Layer

Spring provides you a small but interesting set of tools that help you start only your persistence layer or the entire application, manage transactions in your test cases, and prefill your database with a set of test data.

Define your Test

If you annotate your test class with `@SpringBootTest`, your entire application with all dependencies and its standard configuration will get started before your test gets executed.

If you annotate your test class with `@DataJpaTest`, you only start the parts of your application that are relevant for JPA. These are the repository implementations and the configuration and instantiation of the *EntityManager* and your *DataSource*.

By default, the `@DataJpaTest` replaces your database with an in-memory database. You can avoid this replacement by annotating your class with `@AutoConfigureTestDatabase` and setting the *replace* attribute to `NONE`.

Managing Transactions

All tests annotated with `@DataJpaTest` automatically manage a transactional context. By default, they start a transaction before executing the test case and roll it back afterward.

You can change that by annotating your test classes or methods with `@Commit` or with `@Rollback(false)`.