

Spring Professional Exam Tutorial v5.0

Question 39

Question 39 - What does @SpringBootTest auto-configure?

@SpringBootTest annotation will auto-configure:

- ▶ `ApplicationContext` for testing
- ▶ Test itself with tools used for testing

`ApplicationContext` is configured by searching for `@SpringBootApplication` or `@SpringBootConfiguration` annotated classes, based on those bean definitions will be created.

It is also possible to test only slice of the application with usage one of following:

- ▶ `@SpringBootTest#classes`
- ▶ `@ContextConfiguration#classes`
- ▶ `@AutoConfigure...` annotations

`@AutoConfigure...` annotations allows you to configure specific environment and tools for testing, for example `@AutoConfigureMockMvc` will configure `MockMvc` that can be used for Controllers testing.

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Spring Boot Test includes annotations that are wrapping @AutoConfigure... annotations and make test development simpler:

- ▶ @JsonTest
- ▶ @WebMvcTest
- ▶ @WebFluxTest
- ▶ @DataJpaTest
- ▶ @JdbcTest
- ▶ @JooqTest
- ▶ @DataMongoTest
- ▶ @DataLdapTest
- ▶ @RestClientTest
- ▶ ...

Each of this annotation uses @AutoConfigure... annotations and also @ExtendWith(SpringExtension.class) for JUnit 5, which makes test development easier.

