

Testing Spring

Beginner to Guru

Introduction to Mockito



What is Mockito?

- Mockito is the most popular mocking framework for testing Java
- Mocks (aka Test Doubles) are alternate implementations of objects to replace real objects in tests
- Works well with Dependency Injection
- For the class under test, injected dependencies can be mocks







Types of Mocks (aka Test Doubles)

- Dummy Object used just to get the code to compile
- Fake An object that has an implementation, but not production ready
- Stub An object with pre-defined answers to method calls
- **Mock** An object with pre-defined answers to method calls, and has expectations of executions. Can throw an exception if an unexpected invocation is detected
- Spy In Mockito Spies are Mock like wrappers around the actual object





Important Terminology

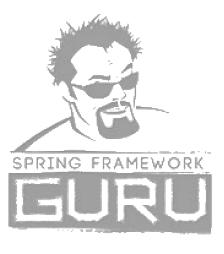
- Verify Used to verify number of times a mocked method has been called
- Argument Matcher Matches arguments passed to Mocked Method & will allow or disallow
- Argument Captor Captures arguments passed to a Mocked Method
 - Allows you to perform assertions of what was passed in to method





Mockito Annotations

Annotation	Description
@Mock	Used to create a mock
@Spy	Used to create a spy
@InjectMocks	Inject mocks / spys into a class under test
@Captor	Captures arguments to Mock





SPRING FRAMEWORK

