## Links for reference

https://docs.spring.io/spring-framework/docs/current/reference/html/testing.html#unit-testing-spring-mvc

## Annotations for web layer

1. **@TestPropertySource(locations= "classpath: application-test.yml",**

**properties={ ccs.mongo.connection.enabled-true", "spring.data.mongodb.authMechanism-PLAIN"}**

this is a class level annotation

When spring is trying to start while running junit, instead of loading the properties from properties file or yml file we can provide and override and with this we can give the property file location also so that all those properties will be loaded

1. **@Mock vs @MockBean**

@Mock will just create a mock and it is mandatory to add @InjectMocks else these mock objects will be in test class only, it will not be injected to the target class

So use this @Mock along with the @InjectMocks only then mocked objects will be kept in that target class

@MockBean –This will create a mock of that class and it keeps that mocked bean in the spring context.

1. **@ContextConfiguration (classes={RestTemplateConfigMock.class))**

This annotation alone is enough to start the container while running junit test cases with this class this is same like @Configuration annotation this will be picked up or loaded when container is getting started

* If u want a mocked bean to be injected into spring container then use @MockBean
* Lets say u want to create a real bean object and inject into spring container then as usual , create a configuration class annotated with **@ContextConfiguration**

Like

**@ContextConfiguration** (classes=RestTemplateConfigMock.class) and have methods annotated with @Bean and create that object inside that method and these @Bean methods will be called and those will be kept into spring container

1. **@SpringJUnitConfig(classes-(RestTemplateConfigMock.class))** these classes will be

loaded or detected by the spring

**@SpringJUnitConfig=@ExtendWith(SpringExtension.class)+ @ContextConfiguration**

1. @SpringJUnitWebConfig
2. @WebMucTest(DataController.class)
3. @ActiveProfiles(“test../any profile”)

## Hamcrest Assertions