#### **HowToDoInJava**

# Spring Boot - Inject Application Arguments in @Bean and @Compoment

```
🛗 Last Updated: October 24, 2019 👂 By: Lokesh Gupta 🖿 Spring Boot 2
```

Learn to retrieve and access the **application runtime arguments** in **@Component** annotated classes and **@Bean** annotated methods in a Spring boot application using **org.springframework.boot.ApplicationArguments** class.

# 1. ApplicationArguments as constructor injection

This is fairly simple way to gain access to application arguments where we need to use them in constructor itself.

```
ArgsComponent.java

@Component
public class ArgsComponent
{
    @Autowired
    public ArgsComponent(ApplicationArguments args)
    {
        //Aceess arguments using args
    }
}
```

# 2. ApplicationArguments as autowired dependency

If we do not specifically require arguments in constructor, autowiring is more cleaner way to inject ApplicationArguments class in any spring component or configuration

class.

```
AppConfiguration.java

@Configuration
public class AppConfiguration
{
    @Autowired
    private ApplicationArguments args;

@Bean
    public ArgsComponent argsComponent() {

        //access args

        return new ArgsComponent();
    }
}
```

## 3. Inject Command Line Arguments - Demo

Let's run a quick demo to understand it's usage.

In this demo, we are passing two arguments while running the spring boot application from command prompt.

- —emailClient=Java
- disableDataService

The first argument (*emailClient*) is assigned a value. Second argument (*disableDataService*) is non-option argument. We will access both argument in the application.

Each word after the run command is an argument. The arguments that start with '-' are option argument; and others are non-option arguments.

ArgsComponent.java

```
@Component
public class ArgsComponent
{
   public ArgsComponent()
   {
   }
}
```

```
AppConfiguration.java
import java.util.List;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.ApplicationArguments;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
@Configuration
public class AppConfiguration
  private static final Logger log = LoggerFactory.getLogger(AppConfiguration.class
  @Autowired
  private ApplicationArguments args;
  public AppConfiguration argsComponent() {
    verifyArguments();
    return new ArgsComponent(args);
  }
  public void verifyArguments()
    //Check is argument is present
    if(args.containsOption("emailClient"))
    {
      //Get argument values
      List<String> values = args.getOptionValues("emailClient");
      log.info("Email clients are :: " + values);
    }
    List<String> nonOptionArgs = args.getNonOptionArgs();
```

```
log.info("Non Option Args List ...");

if (!nonOptionArgs.isEmpty())
{
    nonOptionArgs.forEach(file -> log.info(file));
}
}
```

## Start the application and verify output

To Start the application with arguments, run following command from command prompt.

```
$ java -jar target\SpringBoot2Demo-0.0.1-SNAPSHOT.jar -emailClient=Java disableDataService
```

Observe the startup logs.

```
Console
2019-05-06 16:31:36.443
                         INFO com.howtodoinjava.demo.ArgsComponent
                                                                         : Email cli
2019-05-06 16:31:36.443
                         INFO com.howtodoinjava.demo.ArgsComponent
                                                                         : Non Optio
2019-05-06 16:31:36.445
                         INFO com.howtodoinjava.demo.ArgsComponent
                                                                         : disableDa
2019-05-06 16:31:36.461
                         INFO com.howtodoinjava.demo.AppConfiguration
                                                                        : Email cli
2019-05-06 16:31:36.476
                         INFO com.howtodoinjava.demo.AppConfiguration
                                                                          Non Optio
2019-05-06 16:31:36.477
                         INFO com.howtodoinjava.demo.AppConfiguration
                                                                         : disableDa
```

Drop me your questions related to this **spring boot command line arguments example** to demonstrate access *command line arguments while executing spring boot jar* application.

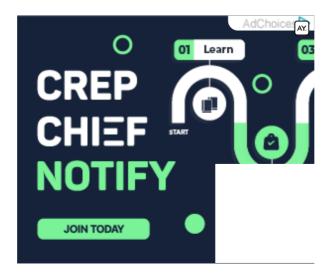
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- 3. Java Command Line Arguments
- 4. Mockito Verify multiple method calls with different arguments
- 5. Spring Boot CRUD Application
- 6. Spring boot logging with application properties
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