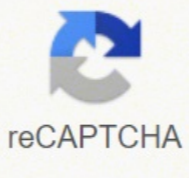




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Chapter 10: RestTemplate

Section 10.1: Downloading a Large File

The `getForObject` and `getForEntity` methods of `RestTemplate` load the entire response in memory. This is not suitable for downloading large files since it can cause out of memory exceptions. This example shows how to stream the response of a GET request.

```
RestTemplate restTemplate = ...;
// Optional Accept header
RequestCallback requestCallback = request -> request.getHeaders()
    .setAccept(Arrays.asList(MediaType.APPLICATION_STREAM_STREAM, MediaType.ALL));
// Streams the response instead of loading it all in memory
ResponseExtractor<Void> responseExtractor = response -> {
    // Here I write the response to a file but do what you like
    Path path = Paths.get("some/path");
    Files.copy(response.getBody(), path);
    return null;
};
restTemplate.execute(URI.create("www.something.com"), HttpMethod.GET, requestCallback, responseExtractor);
```

Note that you cannot simply return the `InputStream` from the extractor, because by the time the execute method returns, the underlying connection and stream are already closed.

Section 10.2: Setting headers on Spring RestTemplate request

The exchange methods of `RestTemplate` allows you specify a `HttpEntity` that will be written to the request when execute the method. You can add headers (such as user agent, referer...) to this entity.

```
public void testHeader(final RestTemplate restTemplate) {
    //Get the headers you need here
    final HttpHeaders headers = new HttpHeaders();
    headers.set("User-Agent", "alibaba");
    //Create a new HttpEntity
    final HttpEntity<String> entity = new HttpEntity<String>(headers);
    //Execute the method writing your HttpEntity to the request
    ResponseEntity<Map> response = restTemplate.exchange("https://httpbin.org/user-agent",
        HttpMethod.GET, entity, Map.class);
    System.out.println(response.getBody());
}
```

Also you can add an interceptor to your `RestTemplate` if you need to add the same headers to multiple requests:

```
public void testHeader2(final RestTemplate restTemplate) {
    //Add a ClientHttpRequestInterceptor to the RestTemplate
    restTemplate.getClientHttpRequestInterceptors().add(new ClientHttpRequestInterceptor() {
        @Override
        public ClientHttpRequest intercept(HttpRequest request, byte[] body,
            ClientHttpRequestExecution execution) throws IOException {
            request.getHeaders().set("User-Agent", "alibaba"); //Set the header for each request
            return execution.execute(request, body);
        }
    });
}
```

Chapter 6: Bean scopes

Section 6.1: Additional scopes in web-aware contexts

There are several scopes that are available only in a web-aware application context:

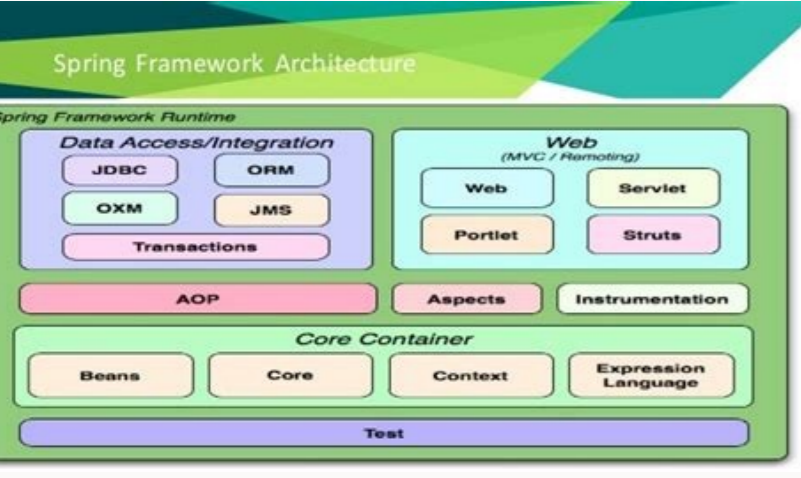
- **request** - new bean instance is created per HTTP request
- **session** - new bean instance is created per HTTP session
- **application** - new bean instance is created per `ServletContext`
- **globalSession** - new bean instance is created per global session in Portlet environment (in Servlet environment global session scope is equal to session scope)
- **websocket** - new bean instance is created per `WebSocket` session

No additional setup is required to declare and access web-scoped beans in Spring Web MVC environment.

```
XML Configuration
<bean id="myRequestBean" class="OneClass" scope="request"/>
<bean id="mySessionBean" class="AnotherClass" scope="session"/>
<bean id="myApplicationBean" class="YetAnotherClass" scope="application"/>
<bean id="myGlobalSessionBean" class="OneMoreClass" scope="globalSession"/>
```

```
Java Configuration (prior to Spring 4.3)
@Configuration
public class MyConfiguration {
    @Bean
    @Scope(value = WebApplicationContext.SCOPE_REQUEST, proxyMode = ScopeProxyMode.TARGET_CLASS)
    public OneClass myRequestBean() {
        return new OneClass();
    }
    @Bean
    @Scope(value = WebApplicationContext.SCOPE_SESSION, proxyMode = ScopeProxyMode.TARGET_CLASS)
    public AnotherClass mySessionBean() {
        return new AnotherClass();
    }
    @Bean
    @Scope(value = WebApplicationContext.SCOPE_APPLICATION, proxyMode =
        ScopeProxyMode.TARGET_CLASS)
    public YetAnotherClass myApplicationBean() {
        return new YetAnotherClass();
    }
    @Bean
    @Scope(value = WebApplicationContext.SCOPE_GLOBAL_SESSION, proxyMode =
        ScopeProxyMode.TARGET_CLASS)
    public OneMoreClass myGlobalSessionBean() {
        return new OneMoreClass();
    }
}
```

```
Java Configuration (after Spring 4.3)
@Configuration
public class MyConfiguration {
    @Bean
    @RequestScope
    // ...
}
```



Handwritten notes explaining the Spring framework architecture and its layers. It discusses the separation of concerns between different layers like Data Access, Web, and Core Container, and how they interact.

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Below are the main advantages of using Java Spring MVC Framework: spring uses the Pojo model, easy to develop. The source code is more modular and more readable. Now you need to have Interface and Dao Implementation where you will write CRUD operation using hibernation sessionFactory. Request with this area Bean, a new bean instance will be created for each web request made by the client. When the application works in the portlet container, it consists of a certain amount of portlets. ContextLoaderListener creates a root web application context for the web application and inserts it in servletContext. As soon as the user ends the session, bean is out of range. Prototype This bean scope simply reverses the behavior of the Singleton scope and produces a new instance whenever a bean is requested. As soon as the request is completed, the bean will be out of the field of application and the collection garbage. ContextApplication: ApplicationContext is the point where the Spring Beans Live ApplicationContext.xml file is the root context configuration for each Web Spring application loads the applicationContext.xml file and creates the applicationContext for the entire application there will be a single context Application for Web Application If you do not explicitly declare the name of the context configuration file in Web.XML using the ContextConfigLocation parameter, Spring will look for the ApplicationContext.xml in the Web-INF and Throw a FileNotFoundException, if you have not succeeded in Find this application-context file are hierarchical and so are WebApplicationContext DispatcherServlet: DispatcherServlet creates your own WebApplicationContext and managers / controllers / view-resolver are managed by this context when contextLoaderListener is used in tandem with DispatcherServlet, a context is created a context of AAreteL AAreteL APJ atAD gnirpS otsetnoc-ecidar enoizacilppa'lla otagelloc A de tevreSrehtapsiD ad ehca otarec oniv olgifi otsetnoc nu e zedecerp ni otted emoc ocidar boW you use spring + hibernate for your application. Singleton A Only one bean instance for spring container (Default) Prototype A A new instance each time a bean instance is requested for HTTP request Session A Single bean instance for global HTTP session Session A Single bean instance for global HTTP session This Bean instance is default and requires the container to have a single instance to have a single instance to have a single instance for container regardless of how long it will take for its instance. It uses lightweight IoC containers that are lightweight compared to EJB containers. Just to make a point here: you can start a Spring application without ever configuring ContextLoaderListener, just a minimum basic web.xml with DispatcherServlet. This purpose has no special effect other than sessions in Servlet-based applications. There is no need to write the implementation of the dao anymore. Here's how jpa spring data makes life easy. For example, if you configure spring security you want to include all those beans in security-context.xml, similarly all beans belonging to the service layer are configured in applicationContext.xml and some would like to configure beans belonging to the DAO layer in dao-context.xml. Dependency Injection pattern design is used in spring which provides loose coupling. Global-session is a bit different in the sense that it is used when the application is portlet-based. global-session is something that is connected to Portlet applications. The remaining three bean spans are related web applications. Performs the actual initialization job for the root application context. Reads a "contextConfigLocation" parameter and passes its value to the context instance, parsing it in file paths multiples that can be separated from any number of commas and spaces, for example <Web-inf / applicationContext1.xml, Web-inf / applicationContext2.xml.> Web-inf / applicationContext2.xml.& < > Just like the request area, this ensures an amount of beans per user session. ContextLoaderListener is optional. The beans in spring container can be created in five purposes to singleton, prototype, demand, session and global-session. Now Spring jpa data allows us to define dao interfaces by extending its repositories (crudrepository, jparepository) to provide dao implementation to runtime. This singular behavior is maintained by the bean factory itself. The core of the spring structure is the bean factory and mechanisms to create and manage such beans inside the spring container. Spring web framework uses MVC which is an advantage over other Web Frameworks. Let's say you're writing dao class for the Employee class, tomorrow in your application you might need to write similar crud operation for any other entity. Each portlet has its own session, but if you want to store global variables for all portlets in your application you should store it in global session. The purpose of the ContextLoaderListener is twofold: to connect the lifecycle of the ApplicationContext to the lifecycle of the ServletContext and to automate the creation of the ApplicationContext, so you don't have to write explicit code to create it. "It's a convenience feature." actions within a large application and a bean with "global session" scope will have only one instance for a global user session. This context can be used to load and unload spring beans, regardless of the technology used in the control layer (Struts or Spring MVC). Essentially these are available via web-aware application context (e.g. WebApplicationContext). Another convenient thing about the ContextLoaderListener is that it creates a txetnoCteivreSteg li e iloigaf erawAtxetnoCteivreS etimart txetnoCteivreS la ossecaal ecsinrof txetnoCnoitacilppAbeW e Here we can see a lot of boilerplate codes. Example: DemoBean.java @Service @Scope ("session") publishes classes DemoBean { } ContextLoaderListener Usually when building multi-tier applications we don't want to clutter all the beans in a configuration file [appname]-servlet.xml. Spring provides transaction management, which is very helpful. So, when you configure all these beans into different context files, you need to know spring that these files exist as spring only knows about [appname]-servlet.xml. ContextLoaderListener will help spring recognize all other context files. files.

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