

Technologies:

- 1) JAVA 17
- 2) Spring boot
- 3) Thymeleaf
- 4) Maven
- 5) Redis

Approach :

We Can solve it two ways :

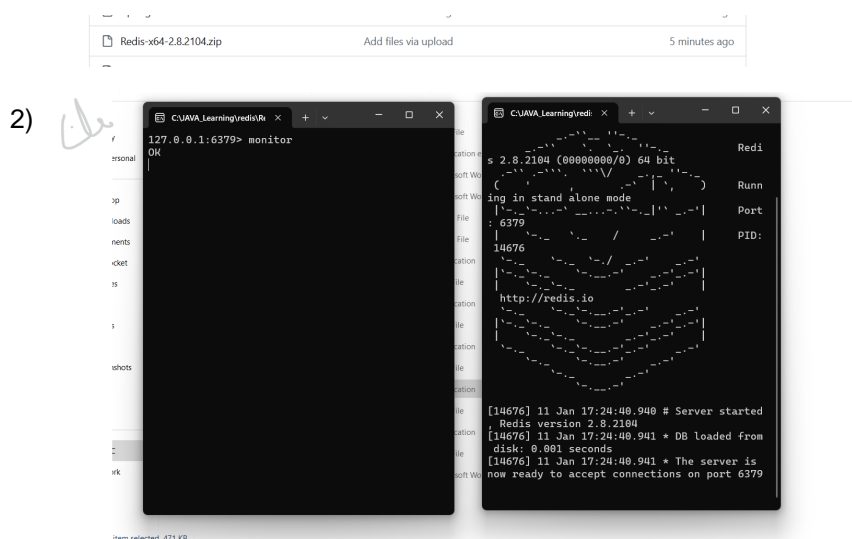
JDBC: working on a smaller application and like to use Spring Session for the session management, you can consider JDBC based session management

Redis is a fast and easily scalable option. With sharing and clustering, Redis scales easily when the user base scales, also since session will expire after sometime, Redis expiring keys makes it a powerful and flexible solution.

Application Setup and Running :

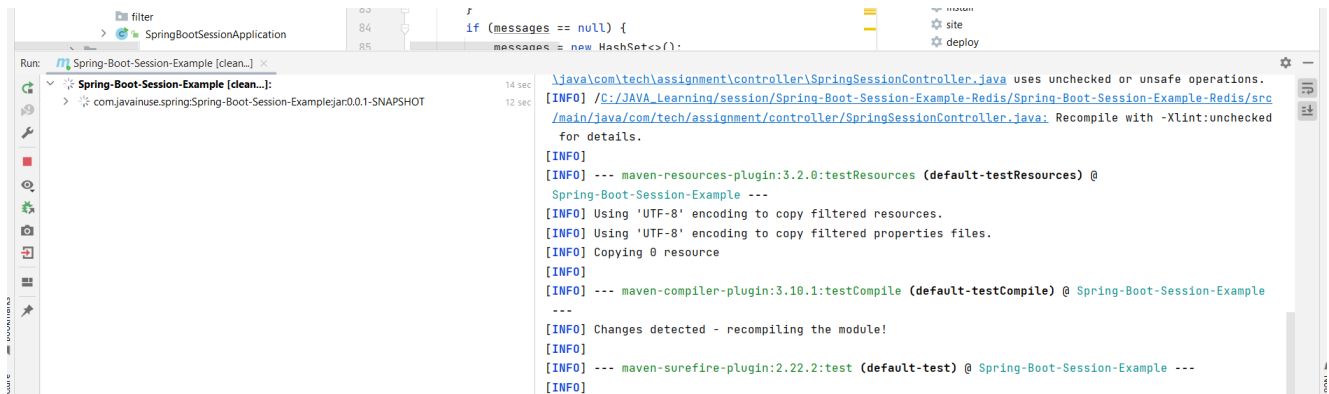
click on the github link : <https://github.com/rajeshch751/techassignment/tree/master>

- 1) Download the redis and extract the redis -> run the server and client as below steps



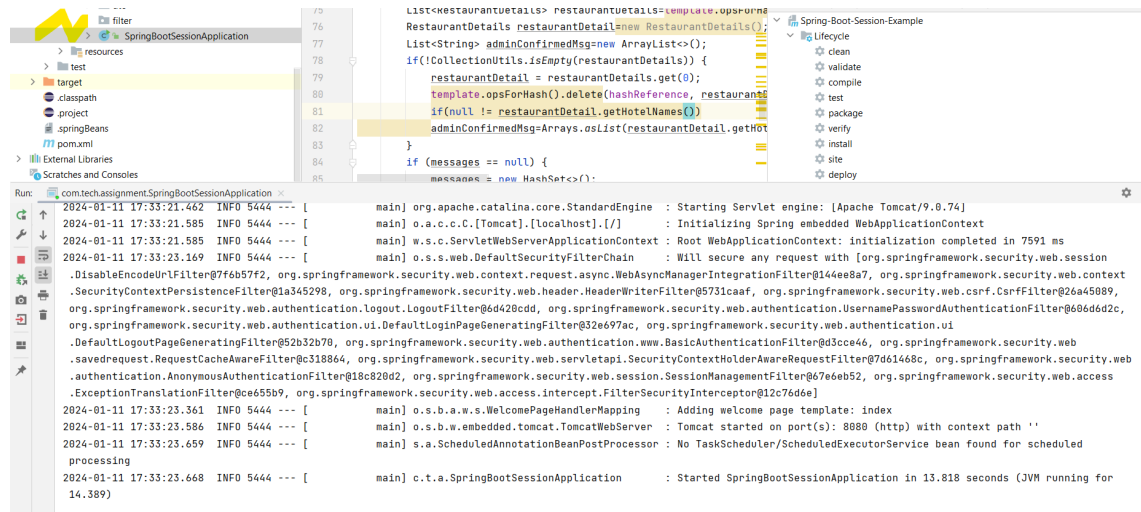
3) clone the project the : <https://github.com/rajeshch751/techassignment.git> -b master

4) After cloning, Import in to your IDE and do it an mvn clean install as below



```
Run: Spring-Boot-Session-Example [clean...]  
> com.javainuse.spring:Spring-Boot-Session-Example:jar:0.0.1-SNAPSHOT  
14 sec  
12 sec  
[INFO] \java\com\tech\assignment\controller\SpringSessionController.java uses unchecked or unsafe operations.  
[INFO] /C:/JAVA_Learning/session/Spring-Boot-Session-Example-Redis/Spring-Boot-Session-Example-Redis/src  
/main/java/com/tech/assignment/controller/SpringSessionController.java: Recompile with -Xlint:unchecked  
for details.  
[INFO]  
[INFO] --- maven-resources-plugin:3.2.0:testResources (default-testResources) @  
Spring-Boot-Session-Example ---  
[INFO] Using 'UTF-8' encoding to copy filtered resources.  
[INFO] Using 'UTF-8' encoding to copy filtered properties files.  
[INFO] Copying 0 resource  
[INFO]  
[INFO] --- maven-compiler-plugin:3.10.1:testCompile (default-testCompile) @ Spring-Boot-Session-Example  
---  
[INFO] Changes detected - recompiling the module!  
[INFO]  
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ Spring-Boot-Session-Example ---  
[INFO]
```

5) Run the Spring Application



```
Run: com.techassignment.SpringBootSessionApplication  
2024-01-11 17:33:21.462 INFO 5444 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.74]  
2024-01-11 17:33:21.585 INFO 5444 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext  
2024-01-11 17:33:21.585 INFO 5444 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 7591 ms  
2024-01-11 17:33:23.169 INFO 5444 --- [main] o.s.s.web.DefaultSecurityFilterChain : Will secure any request with [org.springframework.security.web.session  
.DisableEncodeUrlFilter@7f6b57f2, org.springframework.security.web.context.request.async.WebAsyncManagerIntegrationFilter@144ee8a7, org.springframework.security.web.context  
.SecurityContextPersistenceFilter@1a345298, org.springframework.security.web.header.HeaderWriterFilter@5731caaf, org.springframework.security.web.csrf.CsrfFilter@26a45089,  
org.springframework.security.web.authentication.logout.LogoutFilter@6d420cdd, org.springframework.security.web.authentication.UsernamePasswordAuthenticationFilter@860d6d2c,  
org.springframework.security.web.authentication.ui.DefaultLoginPageGeneratingFilter@32e697ac, org.springframework.security.web.authentication.ui  
.DefaultLogoutPageGeneratingFilter@52b32b70, org.springframework.security.web.authentication.www.BasicAuthenticationFilter@3c0e46, org.springframework.security.web  
.savedrequest.RequestCacheAwareFilter@318864, org.springframework.security.web.servletapi.SecurityContextHolderAwareRequestFilter@7d61468c, org.springframework.security.web  
.authentication.AnonymousAuthenticationFilter@18c820d2, org.springframework.security.web.session.SessionManagementFilter@67e6eb52, org.springframework.security.web.access  
.ExceptionTranslationFilter@ce655b9, org.springframework.security.web.access.intercept.FilterSecurityInterceptor@12c7d6de]  
2024-01-11 17:33:23.361 INFO 5444 --- [main] o.s.b.a.w.s.WelcomePageHandlerMapping : Adding welcome page template: index  
2024-01-11 17:33:23.586 INFO 5444 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''  
2024-01-11 17:33:23.659 INFO 5444 --- [main] s.a.ScheduledAnnotationBeanPostProcessor : No TaskScheduler/ScheduledExecutorService bean found for scheduled  
processing  
2024-01-11 17:33:23.668 INFO 5444 --- [main] c.t.a.SpringBootSessionApplication : Started SpringBootSessionApplication in 13.818 seconds (JVM running for  
14.389)
```