

구분	TYPE	Spec	Library (artifact)	Version
Backend	OS	Windows		
	WAS	Tomcat 9.x		9.x
	DB	Oracle XE		11g or 18c
	http://maven.jahia.org/maven2/ (jahia)		ojdbc6 또는 ojdbc8	12.1.0.1 / 18.3.0.0
	Charset	UTF-8		
	JDK	openjdk		1.8.x
	server-side script	JSP	javax .servlet .jsp -api	2.3.0
		Servlet	javax .servlet .jsp -api	4.0.0
		JSTL	jstl	1.2
	MVC framework	Spring	spring-webmvc	4.3.30
	ORM	Spring jdbc/tx	spring-jdbc	4.3.30
		MyBatis	mybatis	3.4.6
		MyBatis/Spring	mybatis-spring	1.3.3
	AOP	aspectjrt	aspectjrt	1.9.7
		spring-aspects	spring-aspects	4.3.30
		aspectjweaver	aspectjweaver	1.9.7
		aspectjtools	aspectjtools	1.9.7
	Logging	log4j2	log4j-core	2.14.1

		log4j2	log4j-api	2.14.1
		log4j2	log4j-slf4j-impl	2.14.1
		slf4j	slf4j-api	1.7.30
		slf4j	jcl-over-slf4j	1.7.30
		log4jdbbc	log4jdbc-log4j2-jdbc4	1.16
	Testing	jUnit	junit	4.13
		hamcrest	hamcrest-library	1.3
		Spring-test	spring-test	4.3.30
		Json path	json-path	2.5.0
		mockito	mockito-core	3.9.0
	JSON	fasterxml-jackson	jackson-core	2.13.0
			jackson-databind	2.13.0
			jackson-annotations	2.13.0
	REST Testing	swagger	springfox-swagger2	2.9.2
			springfox-swagger-ui	2.9.2
			springfox-data-rest	2.9.2
	File Upload	apache commons fileupload	commons-fileupload	1.4
		apache commons io	commons-io	2.7
		image library	thumbnailator	0.4.12

	Utility	lombok	lombok	1.8.22
Front	javascript/webjars	jQuery	jquery	3.6.0
		bootstrap	bootstrap	4.6.1