DO'S, ERRORS AND FIX_SERVLET-DB-JSP-MAVEN_ECLIPSE

Common Errors and their Solutions in Servlet-Database Program

- ClassNotFound Database driver jar file missing from Project's WebContent/ WEB-INF/lib folder
- 2. Redirecting to login page again instead of another :
 - a. forgot 'commit' in db
 - b. wrong sql query string
- 3. If getting error http status 404 or 405 (Get or Post Method Not Allowed) :-
 - Check if method mentioned in form tag of html file and the method defined in servlet java file is same or not.
 - method="get" OR no method mentioned: doGet() in servlet java file
 - method="post" : doPost() in servlet java file
- 4. For Tomcat Server or its version issue, try b. if a. doesn't fix the errors
 - right click on Project -> Properties -> Targeted Runtimes -> select Apache
 Tomcat -> Apply and Close
 - right click on Project -> Build Path -> Configure Build Path -> Libraries tab ->
 Add Library -> Server Runtime -> Select Tomcat version you downloaded in
 your system -> Finish
- 5. If errors in all files and server not starting, maybe the tomcat folder downloaded is corrupted.
 - Download tomcat zip folder again.
- 6. Kuch samajh ni aa rha:
 - a. clean tomcat server build, restart server and run html file again
 - b. If a. doesn't work, close eclipse and laptop, and sleep for a while. Then try again later or ask sir, the next day.

Common Do's, Errors and their Solutions in JSP-Servlet Program

1. Error 500 :-

- a. run servlet class file not jsp file.
- b. take care of <%= %> '=' sign while writing java code in jsp file wherever required.
- 2. DO ctrl+space while writing java code in jsp...to import corresponding classes and packages.
- 3. DO Build Automatically must be enabled in Project.
- 4. DO Select Java version 8 while creating the Dynamic Web Project.
- 5. For java version issue or jre library issue,
 - right click on Project -> Build Path -> Configure Build Path -> Libraries tab -> remove the existing jre library and click on Add Library -> JRE system library -> Select java 8 -> Finish.
- 6. TIP If project shows a cross error, search 'Problems' in eclipse and check the list of errors displayed in problems window. Fix the errors accordingly.
- 7. Corrupted workspace could be an issue too sometimes due to similar name of workspace and projects inside it.
- 8. If everything seems correct and still no output :-
 - Create a new project and start again. Amen.

<u>Common Do's, Errors and their Solutions in Maven-DB-JSP-Servlet</u> <u>Program</u>

We have created a MAVEN PROJECT (ci-webapp : class example); Perspective - JAVA EE Maven Project will show errors after creation in this scenario.

- 1. Right click on project -> JAVA EE Tools -> Generate Deployment Descriptor Stub more errors look in problems window and if java version issues, follow step 2
- 2. Right click on project -> Properties ->
 - a. Java Compiler -> uncheck 'use compliance from 1.5' -> set compliance level to 1.8 -> apply and close
 - b. Project Facets -> set Java level to 1.8 -> apply and close
 - c. (check if a. and b. fixed the issue, if not then do this) Java Build Path -> remove JRE 5 library and Add Library -> JRE -> default 1.8 -> apply and close

Final fix if above step 2 doesn't help,

3. Right click on project -> maven -> update project -> force update -> repeat above steps a. and b.

Also, if creating SERVLET and JSP files, errors will be shown

- 4. Right click on project -> properties -> targeted runtimes -> check apache tomcat server -> apply and close
- 5. DO: keep .properties files in src/main/resources
- 6. DO: add JUnit dependency (if have created test cases) and Database dependency (if database is used) in pom.xml file

To build this above project using maven build in eclipse, add below 2 to pom.xml

(reason: maven-compiler-plugin by default will compile your project using Java 1.5 which is where m2e get's its information.

That's why you have to explicitly declare the maven-compiler-plugin in your project with something other than 1.5. Your effective pom.xml will implicitly use the default set in the maven-compiler-plugin pom.xml)

What is 'scope: provided' in servlet dependency?
- <a href="https://maven.apache.org/guides/introduction/introduction-to-dependency-mechanism.html#D

Running a project using Maven Build in eclipse

Right click on project -> Run As -> maven build(select 1st maven build option you see) -> Goals: clean compile test package

If no options of 'run as' on project, right click on pom.xml -> Run As -> maven build(select 1st maven build option you see) -> Goals: clean compile test package

An error may occur now if doing maven build for first time in eclipse: JRE path its taking and not JDK one

FIX: Window -> preferences -> select java(from left side) -> Installed JREs(left side) -> Add -> Standard VM -> Next -> set JDK path (just JDK folder) to JRE home by clicking on Directory

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