**What this project does??**

This project performs CRUD operation on underlying entity along with logging and interceptor functionality.

This project include almost all concepts in Struts2 technology viz. MVC design pattern, interceptors, model, error handling using JSP, database handling using hibernate, logging mechanism etc.

Look for the package structure

1. com.javaLive.action package containing struts action class which acts as controller in this application. This class facilitates various CRUD operations on underlying entity.

2. com.javaLive.dao package containing Data Access Object class responsible for CRUD operations on underlying models classes

3. com.javaLive.databaseUtil package for hibernate configuration and utility class for database connection in both the ways. Look both the files very carefully and go through the difference among them.

4. com.javaLive.interceptors package contains SimpleInterceptor.java file. This interceptor is responsible for logging operations to the log files.

5. com.javaLive.model package contains entity class.

(Note that there in no .hbm file here. We done annotation based mapping with @Entity)

**How to create this project??**

a) This is maven web project.

(Please refer 'CreateMavenWebProjectWithEclipse.docx' file to get idea about creating such project.)

b) Add require maven dependencies

c) Create and place packages in the respective locations as shown. **Pay special attention to main/src/resources/log4j.properties, main/src/resources/struts.xml (for mapping of action and interceptors) and main/src/resources/hibernate.cfg.xml**

**Files require more attention**

1. Action class in com.javaLive.action package which is backbone of this application.

2. Mapping of struts2 functionality with the help of filters in web.xml file(Very important)

3. Location and details in log4.xml file

4. various files in jsp folder

**5. Logging operation carried out by com.javaLive.interceptors. SimpleInterceptor.java interceptor class. This is very important class it convert address of the student to upper case.**