

PROFILING

In general, in project lifecycle, we have to perform development, testing, production mainly . At each and every phase of project lifecycle we may use databases, debugging tools, testing tools, with different configuration details.

In general, in all project lifecycle phases we will provide the required configuration details manually, it may increase problems to the applications , in this context, Spring3.x version has provided an automated solution inorder to provide the corresponding configuration details wrt the lifecycle phases, for this, Spring framework has provided "Profiling" feature.

Note: IN Project Implementation , we may use database configuration details like datasource names, connection pool names, JNDI names in Server,.....

If we want to implement Profiling in Spring applications then we have to use the following steps.

1.Create a seperate spring configuration file for each and every phase of the project lifecycle with the respective configuration details.

EX: spring-context-development.xml
spring-context-testing.xml
spring-context-production.xml

Note: spring configuration XML File format must be <FileName>-phase_Name.xml

2.In all Spring Configuration files we must provide "profile" attribute in <beans> tag with the respective lifecycle phyase name.

EX: spring-context-development.xml

<beans profile="development">

</beans>

CONTACT US:

Mobile: +91- 8885 25 26 27



+91- 7207 21 24 27/28



US NUM: 4433326786

Mail ID: durgasoftonlinetraining@gmail.com

WEBSITE: www.durgasoftonline.com

FLAT NO: 202, HMDA MYTRIVANUM, AMEERPET, HYDERABAD.,

EX: spring-context-production.xml

```
-----  
<beans profile="production">  
-----  
</beans>
```

3. Provide project lifecycle phase in System property with the key "spring.profiles.active" in Main Application.

EX: System.setProperty("spring.profiles.active", "development");

4. In main Application, we have to use GenericXmlApplicationContext as Container and load all the spring configuration files with ctx.load(--,--,--); method and refresh context.

EX:

```
GenericXmlApplicationCointext context = new GenericXmlApplicationContext();  
context.load("spring-context-development.xml", "spring-context-production.xml");  
context.refresh();
```

Example:

AccountBean.java

```
package com.durgasoft.beans;  
  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.ResultSet;  
import java.sql.ResultSetMetaData;  
import java.sql.Statement;  
  
public class AccountBean {  
    private String driverClass;  
    private String driverURL;  
    private String dbUserName;  
    private String dbPassword;
```

CONTACT US:

Mobile: +91- 8885 25 26 27



+91- 7207 21 24 27/28



US NUM: 4433326786

Mail ID: durgasoftonlinetraining@gmail.com

WEBSITE: www.durgasoftonline.com

FLAT NO: 202, HMDA MYTRIVANUM, AMEERPET, HYDERABAD.,

setXXX() and getXXX()

```
public void listAccounts() {  
    try {  
        Class.forName(driverClass);  
        Connection con = DriverManager.getConnection(driverURL,  
dbUserName, dbPassword);  
        Statement st = con.createStatement();  
        ResultSet rs = st.executeQuery("select * from account");  
        ResultSetMetaData md = rs.getMetaData();  
        int columns = md.getColumnCount();  
        for(int i=1; i<= columns; i++) {  
            System.out.print(md.getColumnName(i)+"\t");  
        }  
        System.out.println();  
        System.out.println("-----");  
        while(rs.next()) {  
            for(int i=1; i<=columns; i++) {  
                System.out.print(rs.getString(i)+"\t");  
            }  
            System.out.println();  
        }  
    } catch (Exception e) {  
        e.printStackTrace();  
    }  
}
```

applicationContext-development.xml

```
<beans ..... profile="development">  
    <bean id="accBean" class="com.durgasoft.beans.AccountBean">  
        <property name="driverClass" value="oracle.jdbc.OracleDriver"/>  
    </bean>  
</beans>
```

CONTACT US:

Mobile: +91- 8885 25 26 27



+91- 7207 21 24 27/28



US NUM: 4433326786

Mail ID: durgasoftonlinetraining@gmail.com

WEBSITE: www.durgasoftonline.com

FLAT NO: 202, HMDA MYTRIVANUM, AMEERPET, HYDERABAD.,

```
<property name="driverURL"
value="jdbc:oracle:thin:@localhost:1521:xe"/>
<property name="dbUserName" value="system"/>
<property name="dbPassword" value="durga"/>
</bean>

</beans>
```

applicationContext-production.xml

```
<beans .... profile="production">
<bean id="accBean" class="com.durgasoft.beans.AccountBean">
<property name="driverClass" value="com.mysql.jdbc.Driver"/>
<property name="driverURL"
value="jdbc:mysql://localhost:3306/durgadb"/>
<property name="dbUserName" value="root"/>
<property name="dbPassword" value="root"/>
</bean>

</beans>
```

Test.java

```
package com.durgasoft.test;

import org.springframework.context.support.GenericXmlApplicationContext;
import com.durgasoft.beans.AccountBean;

public class Test {

    public static void main(String[] args)throws Exception {
        System.setProperty("spring.profiles.active", "production");
        GenericXmlApplicationContext context = new
GenericXmlApplicationContext();
```

CONTACT US:

Mobile: +91- 8885 25 26 27



+91- 7207 21 24 27/28



US NUM: 4433326786

Mail ID: durgasoftonlinetraining@gmail.com

WEBSITE: www.durgasoftonline.com

FLAT NO: 202, HMDA MYTRIVANUM, AMEERPET, HYDERABAD.,

BY NAGOOR BABU

```
context.load("applicationContext-development.xml", "applicationContext-  
production.xml");  
context.refresh();  
AccountBean accBean = (AccountBean)context.getBean("accBean");  
accBean.listAccounts();  
  
}  
}
```

CONTACT US:

Mobile: +91- 8885 25 26 27



+91- 7207 21 24 27/28



US NUM: 4433326786

Mail ID: durgasoftonlinetraining@gmail.com

WEBSITE: www.durgasoftonline.com

FLAT NO: 202, HMDA MYTRIVANUM, AMEERPET, HYDERABAD.,