# 构建SqlSessionFactory的过程

## SqlSessionFactoryBuilder.build()

public SqlSessionFactory build(Reader reader)

public SqlSessionFactory build(Reader reader, String environment)

public SqlSessionFactory build(Reader reader, Properties properties)

public SqlSessionFactory build(Reader reader, String environment, Properties properties)

public SqlSessionFactory build(InputStream inputStream)

public SqlSessionFactory build(InputStream inputStream, String environment)

public SqlSessionFactory build(InputStream inputStream, Properties properties)

public SqlSessionFactory build(InputStream inputStream,Stringe nvironment,Properties properties)

//真正构建逻辑为

public SqlSessionFactory build(InputStream inputStream, String environment, Properties properties) {

try {

XMLConfigBuilder parser = new XMLConfigBuilder(inputStream, environment, properties);

return build(parser.parse());

} catch (Exception e) {

throw ExceptionFactory.wrapException("Error building SqlSession.", e);

} finally {

ErrorContext.instance().reset();

try {

inputStream.close();

} catch (IOException e) {

// Intentionally ignore. Prefer previous error.

}

}

}

将最后的解析后的Configuration包装成为SqlSessionFactory

public SqlSessionFactory build(Configuration config) {

return new DefaultSqlSessionFactory(config);

}

# XMLConfigBuilder解析器

## XMLConfigBuilder是继承自BaseBuilder

## 构建XMLConfigBuilder

public XMLConfigBuilder(Reader reader)

public XMLConfigBuilder(Reader reader, String environment)

public XMLConfigBuilder(Reader reader, String environment, Properties props)

public XMLConfigBuilder(InputStream inputStream)

public XMLConfigBuilder(InputStream inputStream, String environment)

public XMLConfigBuilder(InputStream inputStream, String environment, Properties props)

真正构建方法：

public XMLConfigBuilder(InputStream inputStream, String environment, Properties props) {

this(new XPathParser(inputStream, true, props, new XMLMapperEntityResolver()), environment, props);

}

通过XPathParser进行创建

private XMLConfigBuilder(XPathParser parser, String environment, Properties props) {

super(new Configuration());

ErrorContext.instance().resource("SQL Mapper Configuration");

this.configuration.setVariables(props);

this.parsed = false;

this.environment = environment;

this.parser = parser;

}

## 解析配置

public Configuration parse() {

if (parsed) {

throw new BuilderException("Each XMLConfigBuilder can only be used once.");

}

parsed = true;

parseConfiguration(parser.evalNode("/configuration"));

return configuration;

}

private void parseConfiguration(XNode root) {

try {

//issue #117 read properties first

propertiesElement(root.evalNode("properties"));

Properties settings = settingsAsProperties(root.evalNode("settings"));

loadCustomVfs(settings);

loadCustomLogImpl(settings);

typeAliasesElement(root.evalNode("typeAliases"));

pluginElement(root.evalNode("plugins"));

objectFactoryElement(root.evalNode("objectFactory"));

objectWrapperFactoryElement(root.evalNode("objectWrapperFactory"));

reflectorFactoryElement(root.evalNode("reflectorFactory"));

settingsElement(settings);

// read it after objectFactory and objectWrapperFactory issue #631

environmentsElement(root.evalNode("environments"));

databaseIdProviderElement(root.evalNode("databaseIdProvider"));

typeHandlerElement(root.evalNode("typeHandlers"));

mapperElement(root.evalNode("mappers"));

} catch (Exception e) {

throw new BuilderException("Error parsing SQL Mapper Configuration. Cause: " + e, e);

}

}

(1)解析properties

propertiesElement(root.evalNode("properties"));

(2)解析settings

Properties settings = settingsAsProperties(root.evalNode("settings"));

loadCustomVfs(settings);

loadCustomLogImpl(settings);

(3)解析typeAliases

typeAliasesElement(root.evalNode("typeAliases"));

使用到的类TypeAliasRegistry typeAliasRegistry,一个是package，一个是alisa、type

(4)解析插件

pluginElement(root.evalNode("plugins"));

使用到的类InterceptorChain、Interceptor

(5)解析对象工厂objectFactory

objectFactoryElement(root.evalNode("objectFactory"));

(6)解析对象加工工厂

objectWrapperFactoryElement(root.evalNode("objectWrapperFactory"));

<https://blog.csdn.net/ycxzuoxin/article/details/104843818/>对象加工工厂

(7)解析反射reflectorFactory

reflectorFactoryElement(root.evalNode("reflectorFactory"));

(8)将一般的settings属性设置到Configuration

settingsElement(settings);

(9)解析environments

environmentsElement(root.evalNode("environments"));

包含解析transactionManager和datasource

TransactionFactorytxFactory= transactionManagerElement(child.evalNode("transactionManager"));

DataSourceFactory dsFactory = dataSourceElement(child.evalNode("dataSource"));

DataSource dataSource = dsFactory.getDataSource();

Environment.Builder environmentBuilder = new Environment.Builder(id)

.transactionFactory(txFactory)

.dataSource(dataSource);