

Scub Foundation

*A technical framework based on
Open Source Components*

Stéphane Traumat - CEO - Scub



Agenda

- Scub Foundation objectives.
- Software architecture.
- Project architecture.
- Infrastructure tools.

Before starting...

One thing to manage...

One thing to take into account : **Change**

Change is **normal**, it's always happening.

- User needs are changing.
- Technologies are changing.
- Business rules are changing.
- Organisations are changing.

Scub Foundation objectives

Our job

Scub is a software development and consulting firm focused on helping clients achieve greater success through the application of established and emerging technologies.

Our job

To succeed, we must industrialize our production.

For us, industrialization is the process of producing software with techniques allowing a better productivity, a better quality and a normalization.

Scub Foundation objectives

Objectives

- Projects skeleton depending on the project needs.
- Common tasks for all projects (compile, package...).
- Automatic dependency management.
- Popular framework.
- Environnement management (test, dev, prod...).
- No ramp-up time.
- Not reinventing the wheel.

Software architecture

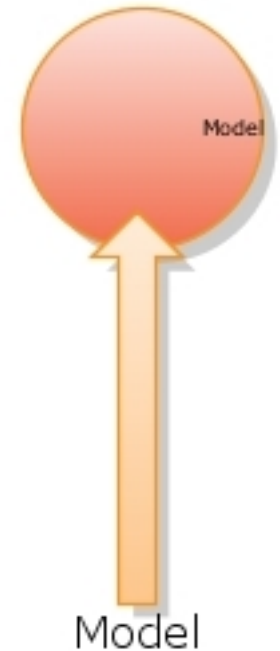
Model Layer

This layer is composed of Simple Java Beans representing the persistent data of the application.

Use of Hibernate and hsqldb.

Benefits : Database independance,
Framework independance...

One problem : **Complexity**

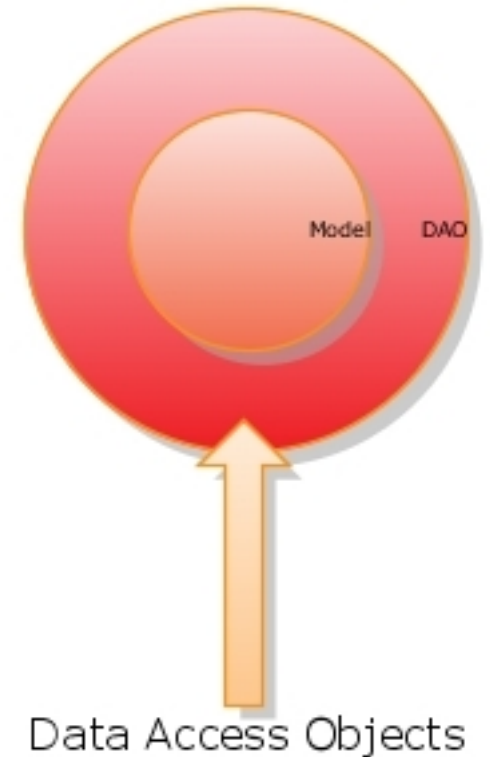


DAO Layer

We use a Data Access Object (DAO) to abstract and encapsulate all access to the data source.

Use of SpringDAO, AOP and IOC.

Benefits : Technology independance, complexity abstraction.



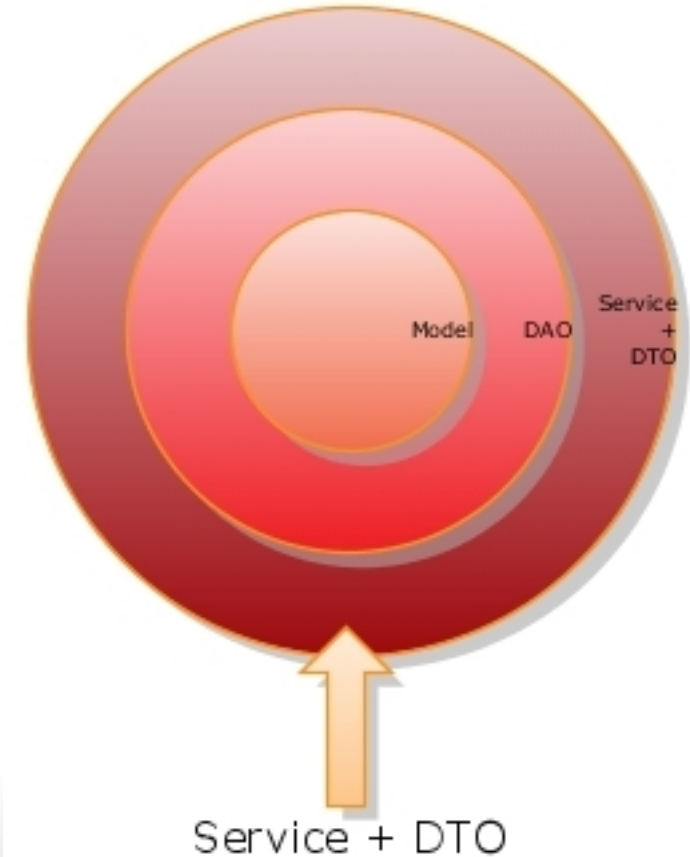
Service layer

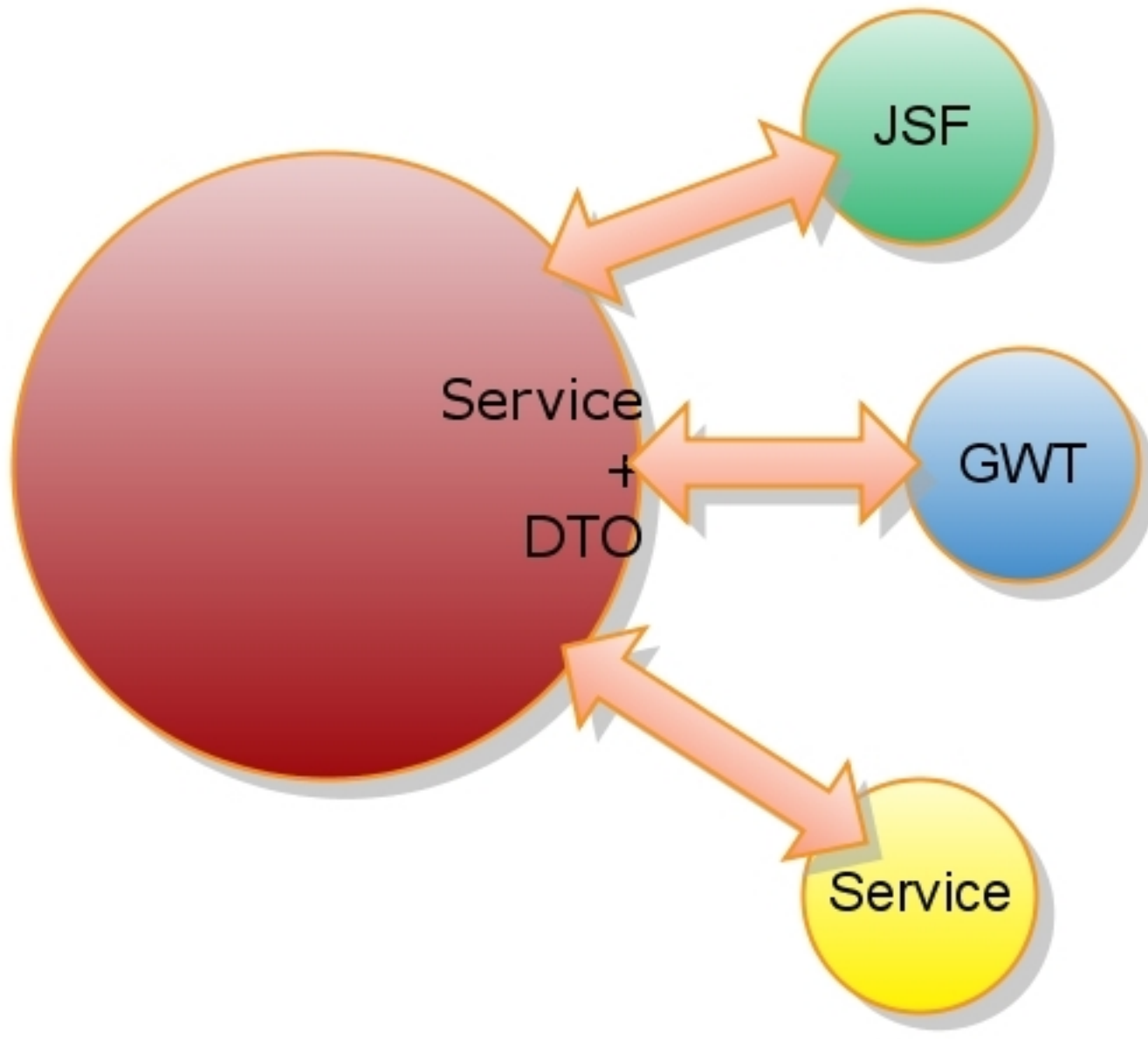
The service layer offers the business logic with simple interface and simple data objects :

```
Long createClient(ClientDTO);
```

Use of Interface, Spring, Dozer.

Benefits : Technology independantce, use of Mock.





Service / Clients

Project architecture

Project architecture

At the core : Maven archetypes.

For every kind of project, archetypes provides :

- Project skeleton and common tasks.
- Configuration samples.
- Automatic dependency management.
- Environment configuration.

Build process is more simple

It also means less "choice" for developers

Mantis

Artifactory

SVN

Luntbuild

Java Project

project-core-model

project-core

project-gwt

project-spring-mvc

hsqldb

Hibernate

Spring

JUnit

GWT

Dozer

Eclipse

Maven

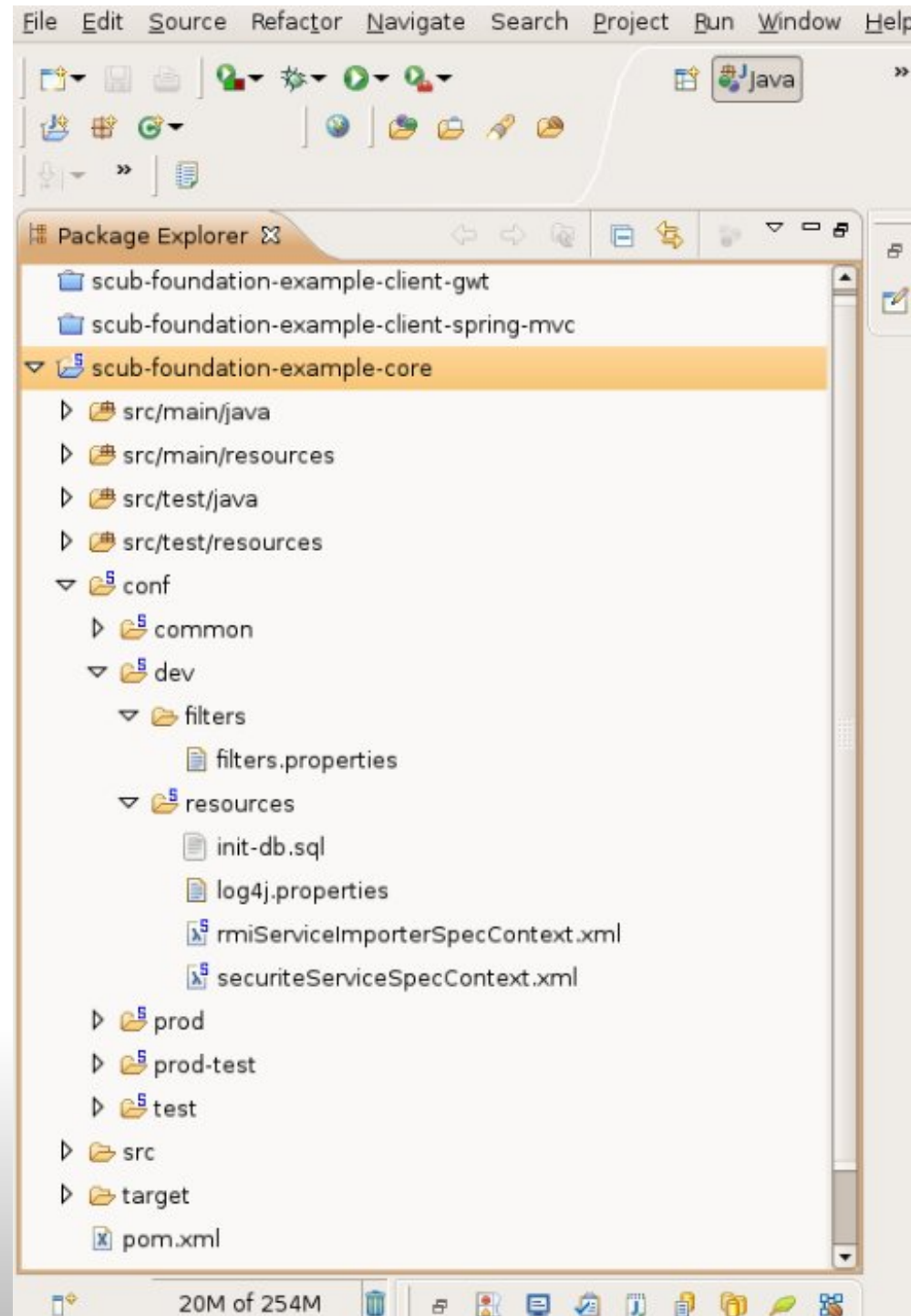
Architecture

OW2
Consortium

Project skeleton

Every type of project has its own structure.

And it comes with its own tasks.



Infrastructure tools

Infrastructure tools

- Bugtracker : Mantis.
- Maven repository : Artifactory.
- Version Control System : SVN.
- Continuous Integration : Luntbuild.

Thank you !



Scub Foundation

<http://www.scub-foundation.org>

Opening on june 2009

- Email : stephane.traumat@scub.net
- Web : <http://www.scub.net>
- Blog : <http://www.scub.net/blog>