Fractal Management Console

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Jérôme Moroy - Philippe Merle
INRIA Futurs – Lille – Jacquard Project
OpenCCM Project

www.objectweb.org
Outline

Fractal Management Console

Demonstrations

- Managed Fractal application (HelloWorld)
- Managed Distributed Fractal application (rmi HelloWorld)

Conclusion
Fractal Management Console

➤ Generic Console For Fractal Application
  ➢ Plug-in built on top of the Generic Browser Framework
  ➢ Compliant with the Fractal 2.0 Specification
  ➢ Customizable for every Fractal applications
    ● Provides a personalized API dedicated to Fractal context

➤ Default Fractal Console Features
  ➢ Discovers the components of the application
  ➢ Introspects their interfaces and its structure
  ➢ Manages the controllers of the components
    ● LifeCycle controller, Content controller, …
  ➢ Monitors the application status
  ➢ Reconfigures the Fractal application at runtime
    ● Changes a component instance
    ● Changes the component bindings
Current Roles

- **user of the application (basic)**
  - sees the main component as a « black » box
  - the client/server interfaces are visible
  - only the business actions are available

- **administrator of the application**
  - the controllers of the components are visible
  - (re)configures the application at runtime

- **Fractal architect (advanced)**
  - builds Fractal application
  - instantiates Fractal application
The Browser Fractal Component

- One client interface: fcAppl
  - Signature: org.objectweb.fractal.api.Component

- One customizable attribute

```java
interface BrowserAttributes {
    // path for configuration files
    public void setConfigFiles(String configFiles);
    public String getConfigFiles();
}
```
The « HelloWorld » scenario
The distributed « HelloWorld » architecture

BrowserAttributes

Browser component

Browser

BrowserAttributes

Client

ServerImpl

rmi

ServiceAttributes

Service

Main

Main

m

m
Conclusion

Operational GUI for Fractal runtime management
- Fractal 2.0 compliant (exist also for Fractal 1.0)
- Class introspection plugin
- Any Fractal application is pluggable/manageable
- An application personalization could be specified
- In addition of the FractalGUI tool
- Used by the ObjectWeb GoTM project

Available in the OpenCCM CVS Repository
- Example of the Browser Framework
- CVS: http://openccm.objectweb.org
- Module: browser
Thank You – Q&A

➡ Presentation of the Generic Browser Framework
  ➡ System Management Workshop (tomorrow)

➡ http://openccm.objectweb.org