Process-driven application development using Red Hat JBoss BPM Suite

Kris Verlaenen
jBPM Project Lead
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Alex Porcelli
Principal Software Engineer
Overview

- Quick intro to jBPM / Red Hat JBoss BPM Suite
- Process-driven applications
- Roadmap
Quick intro to jBPM / Red Hat JBoss BPM Suite
Business Process

Why?
- Visibility
- Monitoring
- Higher-level
- Continuous improvement
- Agility

Authoring

Monitoring

Execution
Business Process Life Cycle

- Business logic
  - Business processes (BPMN 2.0)
  - Data models (Java)
  - Forms
  - Rules, configuration, etc.
- Web-based
  - Versioned repositories
  - Editors
- Eclipse IDE
- Deploying
Business Process Life Cycle

- Lightweight core engine
  - Embeddable
  - Execution service
- Task service
- Local and remote APIs
- Web-based UI
  - Process management
  - Task list
Business Process Life Cycle

- Audit information
- Dashbuilder
  - Out-of-the-box (technical) reports
  - User-defined reports

Monitoring
Process-Driven Applications
Process-Driven Applications

- jBPM offers generic tooling
  - Defining, managing and monitoring processes
- Can be integrated into custom applications
  - Embedded vs as a service
- Workbench = Out-of-the-box web-based UI
Process-Driven Applications

• jBPM offers generic tooling
  – Defining, managing and monitoring processes
• Can be integrated into custom applications
  – Embedded vs as a service
• Workbench = Out-of-the-box web-based UI

BUT => Each use case is different!
Process-Driven Applications

- Domain-specific application
  - For one (set of) processes
  - Custom visualization of important data
    - Based on data already available (remote API)
    - Can be fully customized
Customizable Workbench

- Develop new **screens**
- Combine screens in a **perspective**
- Register perspectives in **dynamic menu**
Customizable Workbench: Demo

• Develop new **screens**
  - **EvaluationInstances**: table of active 'Evaluation' instances
    • *AngularJS* table using remote API:
      `/jbpm-console/rest/history/process/evaluation?status=1`
  - **EvaluationForm**: embeddable form to start new Evaluation
    • JS calling embeddable process form
Customizable Workbench: Dashbuilder

Edit Displayer

- Type: Display
- Data:
  - Margins
  - Meter
    - Start: 0
    - Warning level: 10
    - Critical level: 50
    - End: 100
- Active Evaluation Instances: Status 3
Roadmap

March '15
jBPM 6.2.0.Final

April '15
jBPM 6.3.0.Beta1
BPM Suite 6.1.0.GA

June '15
jBPM 6.3.0.Final

August '15
BPM Suite 6.2.0.GA

jBPM Core engine
- Async continuation
- JS script

Designer
- Data mapper

Remote API
- Embeddable process instance image
- Improved query capabilities

Case management (first phase)
- User and group management
- KPIs in process instance lists

BPM Suite 6.3.0.Final

jBPM7
- Execution server + cloud
- Process-driven applications
- Case management
jBPM Project / Red Hat JBoss BPM Suite

- More information
  - jbpm.org

- Latest release:
  - 6.2.0.Final
  - 6.3.0.Beta1

- Get started yourself
  - jBPM installer
  - Docker

- More information
  - redhat.com/en/technologies/jboss-middleware/bpm

- Latest release:
  - 6.1.0.GA

- Get started yourself
  - BPM Suite installer
  - Download evaluation version for developers
Questions?
An invitation doesn’t guarantee entrance. Admission determined by city of Boston fire code.