

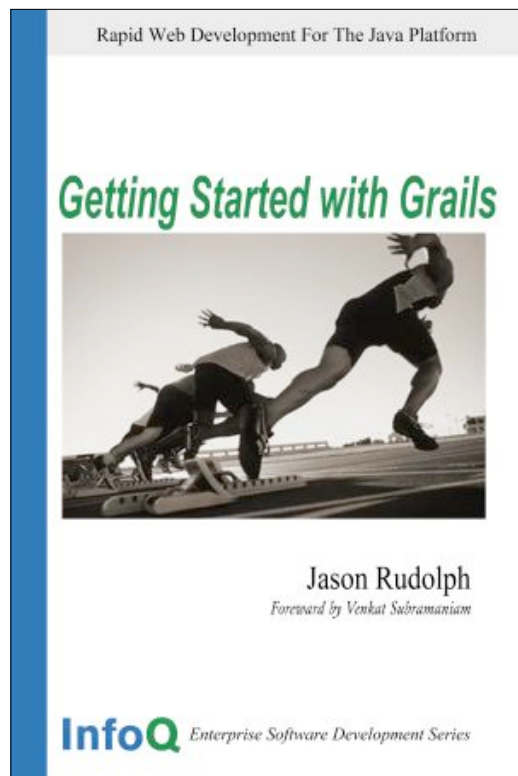
Legacy Database Integration with Hibernate & Grails



2007

GRAILS EXCHANGE

<http://www.grails-exchange.com> | <http://www.grails.org> | <http://skillsmatter.com>



Introduction

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What Are We Getting Ourselves Into?

Convention-over-
configuration

vs.

Legacy Schemas

Opinionated
Software

vs.

Old Designs
and Ideas





DAOs Considered Harmful

- Grails Object-Relational Mapping (GORM)
 - Rich relationship model
 - Declarative validation
 - Powerful query support
 - Easy scaffolding



Conventional Thinking

Demo



Defying Conventional Wisdom

- Non-conforming table/column names
- Custom sequences
- Complex keys
- Advanced mappings



Certificate of Nonconformity

Demo



Grails + Hibernate XML

Step 1

- Review existing schema
- Sketch out desired object model
 - Favor object-oriented thinking
 - The database shall bend
- Define domain classes



No Schema Left Behind

Demo



Grails + Hibernate XML

Step 2

- Prepare HBM file for each deviant table
- Define hibernate.cfg.xml
- Test!



Why Hibernate XML?

- Standard Hibernate artifacts
- Reuse your existing mappings?
- Existing tool support
- Full power of GORM
 - Dynamic persistence methods
 - Constraints
 - Scaffolding



Fewer Sharp Corners?



GORM DSL

<Brand new for 1.0!>

```
class Knight {
  // ...
  static mapping = {
    table 'knights'
    version false
    id column: 'knight_id'
    columns {
      numDragonsSlain column: 'dragon_count'
      // ...
    }
  }
}
```



More Declarative DSL Goodness

- ID generation
- Lazy/eager fetching
- Inheritance strategy
- Index definitions
- Caching



Other Mapping Strategies

- Hibernate (EJB3-Style) Annotations
 - infoq.com/articles/grails-ejb-tutorial
- JPA (Coming soon)



Still More to Explore

- GORM outside of Grails
 - grails.org/gorm+-+standalone+gorm
- Custom user types
 - grails.org/hibernate+integration



Resources

- GORM Documentation
 - grails.org/gorm
- GORM DSL
 - grails.org/GORM+-+Mapping+DSL



Resources (cont'd)

- Mailing List
 - grails.org/mailing+lists
- Hibernate Tools
 - hibernate.org/255.html



Slides & Examples Available @ jasonrudolph.com/downloads

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