

Golden Rules

lesson #intro02

James L. Parry
B.C. Institute of Technology

Golden Rules

- Cross platform
- Controller best practices
- Model best practices
- View best practices

Huh?

- Server-side development cannot afford sloppiness
- Penalties
 - Your code breaks (PHP error displayed) → you're fired (2 marks off)
 - Break a major rule → you're fired (ditto)
 - Break a lesser rule → you're demoted (1 mark off)
- No excuses

Cross Platform

- The webapp world is not just Windows ... 64% *nix
 - Hard-coded paths → you're fired
 - Windows path separators → you're fired
- The webapp world is not just IIS ...
 - 65% Apache
- The web is not just Java ...
 - 77% PHP, 22% ASP, 4% Java
 - ~75% of the top 100 websites are built using PHP

Controllers

- Classes to handle usecases
 - Manage usecase logic
 - Use models for data access & business rules
 - Trigger views, with passed parameters
- Goal: unaware of data source or presentation medium
- To get fired...
 - Data access, eg SQL select
 - Data manipulation, eg SQL update
 - Generating HTML, eg "echo <...>"
- To get demoted...
 - Awareness of data source
- There are sometimes exceptions

Models

- Classes to handle data collection & record abstraction
 - Active record pattern, sort of
 - NOT JavaBean
 - Add business logic, as appropriate
- Goal: unaware of invocation or presentation medium
- To get fired...
 - Generate HTML, unless helper method
 - Usecase management
- To get demoted...
 - Controller logic
- There are sometimes exceptions

Views

- HTML with embedded “script”
 - well-formed
 - XHTML
 - Use CSS for styling
- Goal: unaware of data source, no PHP
- To get fired...
 - Reference a model from inside your view!
 - Not well-formed
- To get demoted...
 - Business logic inside
- There are sometimes exceptions

Teamwork

- Your code breaks ... already addressed.
- You break someone else's code ... fired!
- You expose defect in someone else's code ... perhaps promoted!
- You expose defect in your code ... fix it!
- You don't carry your weight ... penalized or transferred!
- I will be looking at the repo commit history.

Congratulations!

You have completed lesson #intro02: Golden Rules

If you would take a minute to [provide some feedback](#), we would appreciate it!

The next activity in sequence is: [dev01](#) Devops Introduction

You can use your browser's back button to return to the page you were on before starting this activity, or you can jump directly to the course [homepage](#), [organizer](#), or [reference](#) page.