Midterm Review

lesson #midterm

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Agenda

Last term's midterm and solution have been posted in the `Supplementary` section of the "content" area on D2L, as an example for you.

1. Material Review
2. Exam Essentials

MATERIAL REVIEW

We have had seven lectures so far, on six major topics. What I have found effective as an exam preparation aid is to give you a mental organizer for the important material.

For any given topic, the organizer consists of a practical explanation/definition of the topic, followed by the key concepts and then the key techniques relevant to that topic.

MVC Frameworks

Structured webapps

Concepts:

- MVC separation
- Design patterns (front controller, adapter, intercepting, active record?)
- Autoloader
- Routing

Techniques:

- Classes
- Helpers
- Htaccess, virtual hosting
- Cross-platform!

CodeIgniter Framework

One PHP MVC framework

Concepts:

- Lightweight
- Controllers, models, views
- Libraries, helpers
- Core, hooks, routes

Techniques:

- Discipline
- Sessions, Authentication
- REST, XML-RPC
- View templates

CodeIgniter Controllers

HTTP Request handlers

Concepts:

- Usecase handler
- Utility
- Service

Techniques:

- Routing
- Base controller
- Use other CI components

CodeIgniter Models

Data resource wrappers

Concepts:

- Data resource encapsulation
- Patterned after Active Record?)
- Assumes RDB

Techniques:

- Base model with CRUD
- Usecase-specific methods to retrieve data
- Entity models??

CodeIgniter Views

Presentation pieces

Concepts:

- HTML output
- Template parser, with substitutions

Techniques:

- View fragments
- Parser templates
- No PHP

CodeIgniter Support Components

Multi-framework integration

Concepts:

- Frameworks: code, CSS, JS
- Libraries, helpers

Techniques:

- Bootstrap, jQuery
- Field templating
- Framework components
- Packages
- Pulling them together

EXAM ESSENTIALS

- Date? Tues Feb 23
- When? 14:45-15:45
- Where? SW5-1840
- How Long? One hour
- How long minimum? 30 minutes
- Aids: None

What Will the Exam Cover?

- MVC frameworks ... 15%
- CodeIgniter ... 15%
- Controllers ... 20%
- Models ... 15%
- Views ... 20%
- Libraries & helpers ... 10%

No, the above do not add up to 100%. That is on purpose, to give me a bit of "wiggle room" coming up with questions.

What Format Will the Exam Have?

- Multiple choice @1 ... 30
- Completion @2 ... 10
- Short answer @ 3 ... N/A
- 50 marks in total

Doing the math, a 15% emphasis on MVC frameworks translates to 7.5 out of 50 marks. This could be 7-8 multiple choice, or 4 completion questions.

Congratulations!

You have completed lesson #midterm: Midterm Review

If you would take a minute to provide some feedback, we would appreciate it!

The next activity in sequence is: ci-normal05 Working With Addins

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.