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. <u>Material Review</u>
2. <u>Exam Essentials</u>

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? Weds Feb 24
- When? 14:00-15:00
- Where? SW3-1750
- 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 <u>provide some feedback</u>, we would appreciate it!

The next activity in sequence is: <u>ci-normal05</u> 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 <u>homepage</u>, <u>organizer</u>, or <u>reference</u> page.