



## CENTER FOR TEXTUAL STUDIES AND DIGITAL HUMANITIES

### DIGH 402 - Introduction to Digital Humanities Design and Programming

Spring Semester 2015

Week 11

## PHP and MySQL

### Week 9

1. any issues with the current framework and SQL?
2. everything now working correctly for latest code from 402framework repo?

## Object Oriented Programming

Working framework so far...v0.5

[Home Page](#)

[Output Image Content](#)

[Output Text Content](#)

## Dev Week(s) - Wednesday 25th March to Wednesday 8th April

- opportunity to test and work through concepts for final project framework
- develop a 'view' for a new format (current ones in [/frame/view/...](#))
  - eg: audio, video, maps...
- develop a 'plugin' for a format
  - either the existing text or image
  - or for the new format (eg: to help with audio, video etc)
- either work individually or in teams
- code for 'view' and 'plugin' may be used in the final project framework
- brief presentation of work to class on Wednesday 8th April
- post updates to class' Trello organisation
  - [Dev week board](#)
  - email me with Trello username & personal/team project title for a list on the board

## Object Oriented Programming

Object Oriented Programming - Abstract overview of current framework structure

PHP exercise - v. lightweight content loader

Part 1

[402mini](#)

- create an index.php file
- create separate files for htmlHeader.php and htmlFooter.php
- create a separate file for directory loader - dirLoader.php
- create a separate file for content format - contentFormat.php
- create a separate file for content rendering - content.php
- create a separate file for text reader - txtReader.php
- create a new directory called 'txt'
  - create a text file called 'lorem.txt'
  - add some dummy text from <http://www.lipsum.com/>, or favourite poem etc...
- download Bootstrap files
  - create new directory called 'assets'
  - unzip and copy 'css', 'fonts', and 'js' to assets directory
- create a separate file for css stylesheet - frame.css
  - save to assets/css/frame.css

## Object Oriented Programming

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### PHP exercise - v. lightweight content loader

Part 2 - htmlHeader.php & htmlFooter.php

#### 1. htmlHeader.php

- add basic HTML for <html>, <head>, <title>
- add css links
  - js links will be later...
- close <head> element
- add <body> element
- add <div> element with a class of “wrapper”
- add basic site heading
- \*NB: no metadata at the moment...

#### 2. htmlFooter.php

- add closing element tags for body and html

## Object Oriented Programming

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Part 3 - dirLoader.php

1. dirLoader.php
  - specify parameters etc...
  - create getter function to check specified directory
    - iterate over directory
    - return filenames

## Object Oriented Programming

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PHP exercise - v. lightweight content loader

Part 4 - contentFormat.php, content.php

1. contentFormat.php
  - create parameters etc
  - create function to create table for content display
    - headers
    - rows and columns...
    - return result to index.php
2. content.php
  - check URI content and GET variables
  - require specified content type Reader, eg: txtReader.php
  - instantiate object of content type Reader
  - pass GET variables to txtReader getter
  - output returned Reader content
  - add error check for empty URI variables, eg: just content.php request...



## Object Oriented Programming

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Part 5 - contentFormat.php, content.php & txtReader.php

### 1. txtReader.php

- create required class properties for rendered and file content
- create getter function to return prepared content for rendering
- prepare\_content function accepts two parameters for name and type
  - calls abstracted prepare function, eg: prepare\_txt
- prepare\_txt function calls generic file\_contents function to get file contents
  - uses return file contents
  - sets title for file and text
  - wraps the text in a div with a txt\_content class
  - sets class property for rendered content

## Object Oriented Programming

Object Oriented Programming - Abstract overview of current framework structure

### PHP exercise - v. lightweight content loader

Part 6 - index.php

#### 1. index.php

- require dirLoader.php & contentFormat.php
- set variables for text directory and table headers
- instantiate object for DirLoader class
  - call getter function on object
    - 1. pass directory name parameter
  - handle returned directory content
- instantiate object for ContentFormat class
  - call getter function on object
    - 1. pass texts and table headers
- require htmlHeader.php
- output returned, formatted content
- require htmlFooter.php

## Object Oriented Programming

Object Oriented Programming - Abstract overview of current framework structure

PHP exercise - v. lightweight content loader

Part 7 - frame.css & one more txt file

### 1. frame.css

- add some styling for
  - body
  - wrapper class
  - #content element
  - table
  - #mini\_menu element

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PHP exercise - v. lightweight content loader

Part 8 - Quick test

- Test final application - [402mini](#)