Project Tutorial 1
Project Overview

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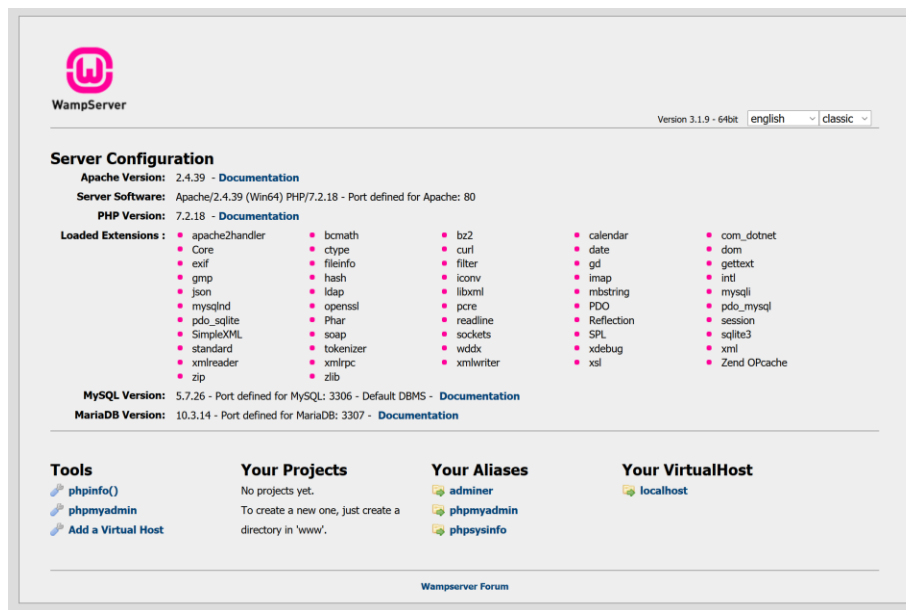
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Coursework

- The practical component counts for 50% of the module assessment.

- Check Moodle for coursework specification.

- Aim is to get practice designing, creating, and using a database to support a website.

Technology

- WAMP (available on lab machines).
  - On your own computer, you can use MAMP, XAMPP, etc.
  - Apache server + MySQL + PHP
- Version control (e.g. Github) for group work
  - Can sign up for a Github student pack
- May want an IDE (e.g. Microsoft Visual Studio Code, IntelliJ IDEA, etc.)

WAMP demo

WampServer

- Installs free MySQL software.
- MySQL database can be accessed via web interface, phpMyAdmin.
  - Use your MySQL database as your personal sandbox!
- PHP files run differently when opened locally vs. requested from a server running PHP.

Groups

- Groups of four.
- Meet with group to decide on peer marking criteria.
- Register your group and peer marking criteria on Moodle.
- Evaluate your groupmates at end of project.
- Group project mark will be modulated by peer marks.

Deliverables

- Due 2 December:
  - Group submission:
    - Video demonstrating the function of your website.
    - Design document describing project, giving link to video and including ER diagram.
    - Code files.
  - Individual submission:
    - Self-assessment / summary of own contributions.
    - Peer assessment of all groupmates.

Video

- Examples on Moodle.
- Structure video with one section for each of the capabilities/features listed on the briefing sheet (in order if possible).
- Make clear how you have provided each capability/feature.
- Have a caption, or clearly state, when each capability/feature description starts.

Marking

70-100%	1st	Excellent database and design, most/all features working well.
60-69%	2:1	Good database and design, core features implemented.
50-59%	2:2	Satisfactory database and design, some features implemented.
0-49%	Fail	Lack of substance, issues with database design; most features not working.

Starter code

- Mostly-functional frontend made from HTML, CSS, and JavaScript.
  - Uses Bootstrap (CSS library), JQuery (JS library), and FontAwesome (icon library).

- Mostly-empty backend: no database!
  - Make your own MySQL database and use PHP's SQL functions to interact with it.

Using other libraries/frameworks

- In addition to Bootstrap and JQuery, you can use any other frontend (HTML/CSS/JS) libraries you like.
  - Using Bootstrap and JQuery not necessary.
- Do not use pre-made application frameworks like Django or a PHP framework – they do too much of the database interaction for you.
- Properly attribute any code not written by you!

Focus on the database aspect

- Projects will be marked on sophistication of database usage and design.

- Don't spend too long on making things pretty. (No extra points awarded for sleek UIs!)

Resources

Other resources

- PHP: http://www.php.net/
- MAMP: http://www.mamp.info/en/index.html
- WAMP: http://www.wampserver.com/en/
- LAMP: use distribution package manager and/or find a tutorial on the web
- HTML: http://www.w3schools.com + many other sites.
- CSS: www.w3schools.com/css + many other sites
- MySQL: http://www.mysql.com/
  - Download MySQL Community Edition
- Bootstrap http://getbootstrap.com

UCL Lynda.com / LinkedIn Learning

- By virtue of being a UCL student, you get access to various Lynda.com tutorials / video training courses:
  - HTML/CSS
  - PHP
  - SQL
  - JavaScript
  - Bootstrap
  - and more…

Project Discussion Forum on Moodle

- Use this forum to discuss the project.

- Ask questions.

- Post useful information.
  - e.g., Useful tutorials, tools, tips and tricks, etc

TODOs this week:

- Introduce yourself and start finding a group.
- Read coursework write-up.
- Install WAMP or equivalent on your machine.
- Experiment with setting up a MySQL database.