

COMP 4669

Advanced Web Applications with PHP

Assignment 2

Assignment 2

This assignment will test everything covered in lessons 7 – 10, assumes knowledge of lesson 1 – 6, including

- Object Oriented PHP
- PHP Frameworks
- PHP Libraries
- MVC pattern
 - JSON Middleware Presentation
 - Separation of concerns
 - Model Hydration
 - Database Interaction – table joins, pagination and query building

RESTful JSON Application

This assignment will serve as a headless, RESTful back end application, serving JSON middleware, to power a Single Page Application (SPA) built by a front end Engineer.

A fully working version can be found here <http://comp4669.garytong.ca>. If done right, yours will work identical.

You are to

- Reverse engineer the Ajax requests the SPA makes to the back end service.
 - Use browser developer tools to see the URLs and parameters.
 - It is safe to assume only GET requests with query parameters are made.
- Reverse engineer the payloads from the server responses.

General guidelines

- Start with the starter kit that your instructor will provide you.
- Do not decompile the SPA – it's easier not to!
- Inside `data/` there is a `sql.txt` file. Use this as seed data; it is for a MySQL database.
 - It is also the seed data you will be marked against.
- Your back end application must serve the exact JSON payload.
- Keep in mind input validation, Model, Single Responsibility Principle.

Common “gotchas”

- Some pictures do not have authors, they should still show.
- Some pictures do not have comments, they should still show.
- Return 8 pictures at a time.

Submission

There is no need to submit your `vendor/` directory or the `composer.phar` file. You **must** submit your `composer.json` and `composer.lock` files, and the rest of your source code.

Compress and submit your files to the D2L dropbox (<http://learn.bcit.ca>)