

## Lab 5

### COMP 3015: Web Application Development

#### Your mission:

Start with **lab-5-starter-kit.zip**.

- Install PHPUnit: <https://github.com/sebastianbergmann/phpunit/>
- Using PHPUnit, implement the tests with TODO comments in the PostRepositoryTest class.
- Ensure you use transactions to rollback database changes made by tests. This will keep our test database clean and help make sure that tests are repeatable. See the **Repository.php** class for functions that start a transaction, commit, rollback.
- Use <https://github.com/vlucas/phpdotenv> in order to allow you to remove all hard-coded credentials and other environment information from your application code. Instead, the credentials will be in a **.env** file.
  - This file is not tracked by Git.
    - Each environment has a different **.env** file (e.g. a development environment, QA environment, performance environment and production environment will all have different **.env** files).

#### Submission:

- Push your changes to GitHub and submit the repository URL
- Submit a screenshot of your green CI build on GitHub
- Do NOT submit the **/vendor** folder or the **.env** file
  - The vendor folder and .env file should not be tracked by Git.

#### Evaluation:

- Functionality / 10
  - PHPUnit tests / 5
    - Reasonable tests written (make sure to test a variety of inputs and outputs)
    - DB transactions used
  - DotEnv usage / 4
  - Green CI build / 1