

## Phase 2 Progress Report

### Changes:

- Utilizing PostgreSQL, an open source object-relational database system, for using and extending SQL, a database was created and test data was inputted.
- The initial data access objects and handlers from phase 1 were changed to connect to the database rather than csv files.
- Work started on adapting the unit tests from phase 1 for the database connection, these are centered around testing getter functions and routes.
  - Note: Unit testing was determined to not be the appropriate approach for testing our current methods as they do not perform any kind of particular function on data, but rather focus on obtaining data from the database. As such, the tests would depend on two elements the method implementation and the database. Integration testing was determined to be apter.
- Integration testing of the REST API was also carried out using Postman, a tool for testing HTTP APIs.
- The biggest changes of this phase can be found in the folders config, dao, handler, and tester. There is also the export of the database in the quotable\_export.pgsql file.

### In terms of front end development:

- The initial template holders for the interface were created, a basic layout and separate extensions for home, login, and registration. User profile interface has yet to be added. These are located in the templates folder.
- It is expected that for user validation, wtForm extension will be used for both login and registration forms. Selenium's Python extension can then be used for acceptance tests.
- Expected acceptance test methods for Phase 3 include:
  - def test\_homepage\_view(self):
  - def test\_login\_view(self):
  - def test\_registration\_view(self):
  - def test\_logout\_view(self):
  - def test\_quotes\_view(self): \*to make sure page is inaccessible without sign in
  - Testing several error pages (such as 404 and 500).