

### CS 4320 homework #3

Due: Oct 25, end of day

Use Python unittest and Selenium WebDriver to create some tests for the Monterey Bay Aquarium's websites at <https://www.montereybayaquarium.org/> :

- Check the address on the home page. It's in both the middle of the page and the footer – checking either one is sufficient
  - As with the rest of the assignment, you have to assume the information on the website is correct, so think of this more as creating regression tests for the website
- Testing conservation page and its links
  - Since the mission of the aquarium does focus on conservation, follow the link for “Our Conservation & Science programs” and confirm the title on the resulting page.
  - Check that the following links are on the page by using the driver to find them
    - California Ocean Health
    - Thriving Ocean Wildlife
    - Sustainable Fisheries & Aquaculture

and <http://www.seafoodwatch.org/>:

- Testing the search feature for a string that matches exactly one entry (2 test cases)
  - If the search string is a perfect match, you will be forwarded to the page with the badges
  - Check just the colors of the badges, but check both that the correct colors are shown and that the other colors are not shown (there will be an “ ng-hide” appended to the class name)
  - Cover cases where you get and don't get the green, red and yellow badges – for example, one seafood entry with just a green badge and one with red and yellow badges will cover it
- Testing for a string which gets no results
- [Don't worry about other search strings that produce multiple seafood matches or bring you first to the intermediate page where you get a button to choose to view the recommendations.]

Because the test cases take some time to execute, you may want to use the `@unittest.skip()` decorator to skip some of you test cases – just remember to remove the skip's when getting ready to submit your assignment.

For checking the presence of links and the correct badges, just finding the matching elements is enough. There is nothing further to assert.

#### Grading

16% for each test method

10% for meaningful naming of variables, functions, classes

10% for comments: there should be at least one comment for each test method