

## Final Project Addendum: Unit Testing

### **Properties:**

- You will implement three unit tests; each will be implemented in a separate file.
- This will be worth a relatively small number of points.
- The assessment will be focused on attempt and not success (though success would be nice too).
- This is a required part of the assignment.
- All the tests should pass when run.
- This should be the last thing you do for this assignment.

### **Requirements:**

- Use Jest
- Unit tests must be runnable with the command "npm test" entered at the command-line from the top-level directory of your repository.
- Make sure you explain how the tests should be run in your README.

### **Test 1 – `mongoDB.test.js`**

- The filename containing the implementation for this test must be:  
`server/mongoDB.test.js`
- Your test must demonstrate that when a post is deleted, it and all of its comments are removed from the database.
- I believe the simplest strategy for this is the following:
  - Build a list of the `postID` and the `commentIDs` for each comment on the post (you'll have to recursively collect the `commentIDs` for comments that are replies to other comments).
  - Run your deletion operation.
  - The expect clause should be passed the result of querying by the `postID` and each of the `commentIDs` in a loop.
  - The assertion should be that the query result is empty (or that its length is 0).

### **Test 2 – `express.test.js`**

- The filename containing the implementation for this test must be:  
`server/express.test.js`
- Your test must demonstrate that the webserver is listening on port 8000.

### **Test 3 – `react.test.js`**

- The filename containing the implementation for this test must be:  
`client/react.test.js`
- Your test must demonstrate that the "Create Post" button component is disabled when the user is viewing the application as a guest and is enabled when the user is viewing the application as a registered user.