Java Spring API testing strategy

The recommended testing technology and strategy follow the best practices outlined in the Java Spring documentation (https://spring.io/guides/gs/testing-web/). The technologies that are prescribed are MockMvc (to test only the web layer) native to Java Spring, and the JUnit testing framework. Rollbar can also be used as a logger for this part of the code.

Criteria for testing

There is a significant amount of Java code. To effectively prioritize test creation this report proposes certain criteria to triage test creation.

(1) Is the code (module) relevant? Does the code run in the current version of the project?
- If yes, move onto criteria (2).
- If no, remove the code from the project.
(2) Does the module produce an error?
- Code producing errors must be prioritized over apparently functional modules.
(3) Is there well-described documentation for a module? The documentation must describe the feature associated with the module and provide user acceptance criteria for the feature.
- Without documentation, the tester must seek requirements and user acceptance criteria.
- If there is documentation, test creation may proceed.