1. Which part/functionality of the open-source app would you test with automated tests or manual testing?

Tests that check the same workflow but with different input data (login, registration page, create an article, post a comment), tests that must be performed each build (smoke, regression, sanity tests), tests that need to run against multiple configurations (different devices, resolutions, OS’s, browsers), performance tests (load and stress) should be automated.

Manual testing should be performed for the UI features like animations (buttons, “like” and tags background switch after locating a mouse arrow), size of the different icons and panels, tests related to the specific user scenario that is performed once, usability tests or the tests that do not have predictable results.

1. What are the best practices of Software Testing that you would do to guarantee the software quality for this kind of application?

First of all, a clear and complete test plan, that follows all requirements should be created. It allows estimating the time for tests, efforts, and costs much easier. The right testing tools should be defined. Test documentation (test cases, checklists, project information) should be prepared and updated continuously, to assure that the tests are performed as per requirements. The tester itself should be fully aware of the application under test to make sure that the tests and test cases fully cover all the application features. Testers should create clear bug reports with all information related to the bug. QA roles should be defined and the testers on each role should have their own responsibilities, developers should not be involved in QA processes. And of course a good communication between all employees that are related to the project is a key to make the application perfect.