

1. A PDF file describing what other kinds of automated tests can be performed in this application (functional and non-functional), how would you maximize the value of testing in this application(testing techniques), all other considerations you think it's important.

Other kinds of functional testing that can be performed on this application can be:-

1. Unit Testing – which is the testing of the smaller units of the application for e.g. classes, methods etc. My current company uses Mockito for its unit testing. Basically unit testing tries to go in to all the conditions in a method class and tries to see if all the conditions pass.
2. We can do automated regression testing for this app to see if all other areas of the application are running fine.

Regarding non functional testing , we can make use of the following testing:

1. Load/performance testing:- We can test the application with maximum number of users and test the application with maximum number of data to see how the application behaves and to see if there is slowness. Database can be utilized to perform these kinds of tests.
2. We can also do security testing on this to see if the user information is protected from external threats.
3. We can do negative testing to see if the app throws any exception if any weird kind of data is entered in to a text field. For e.g. too long data might throw an overflow exception.

To maximize the value of testing we have to try to get as much of our test cases automated as possible as this will increase value to the product and reduce the risk of not testing any area. Also create automated tests for those area which are hard to get to as a manual tester or are hard to reproduce. We can also automate the corner cases.