Task1:

In an application or product, bugs or defects can be found at any phase. Starting from Requirements gathering phase to User Acceptance testing. I would do the following activities to make sure that the website functions as per owner requirements & specifications

1. **Review Requirements gathering document:** List out all the requirements & specifications from owner and make sure they match with the items in Business Requirements document prepared by the third party Business Analyst or Development team
2. **Review Functional Requirements document:** Bugs found at this level can help developers in building a right system
3. **Test Plan, Test Strategy & Test cases development:** Develop Test cases based on BRS & FRS and map them to the requirements (Requirement traceability matrix) to have tracking of the modules which failed
4. **Test Execution & Defect Management:** Execute the test cases & file defects providing utmost information to developers
5. **User Acceptance Testing:** Once all the issues filed are fixed. I would perform testing in the presence of Owner and get confirmation from him that the website is built as expected

Additional to functional testing I would also perform non-functional testing techniques

1. Performance Testing
2. Number of Users supported
3. Number of hits/second can the server take
4. Errors per second- how many errors are displayed per second
5. Response time : how long the user is waiting for response from server
6. Latency: Request time + response time
7. Connection time: Time to connect to website
8. Throughput (Bytes/Sec): Data transfer in bytes per second
9. Usability Testing
10. Learnability: How easy is the product for users to accomplish basic tasks
11. Efficiency: How fast can experienced users accomplish tasks
12. Errors: Are the error messages displayed are easily understandable
13. Stability: Is the application stable even if it is left idle for sometime
14. Memory Utilisation: Does the product is using memory of the machine as per the standards
15. Clear identity: Having a good logo
16. Good navigation
17. Solid domain name
18. Well-constructed pages
19. Compatibility Testing: To check whether website is displayed properly without any over lapping in all available browsers and available devices like PCs, tablets & phones
20. Security Testing