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**Functional Testing:** In functional testing, I verified that all the features and functions of the Channel-Based Chat Tool are working as intended. I made sure that the system performs the expected actions, including creating channels, logging in, starting new chats, replying to existing chats, following, and unfollowing users, and viewing user profiles.

**Integration Testing:** In integration testing, I checked how different components of the website work together. I used Postman and Thunder Client VS Code to test APIs and ensured that the integration of the website with systems is working as intended.

**Security Testing:** In security testing, I ensured that the Channel-Based Chat Tool is secure. I used json web token to secure the channels and made sure that only authorized users can access the website.

**User Acceptance Testing:** In user acceptance testing, I checked the website on different browsers to ensure that it meets our needs and expectations. I used a group of beta testers and real users to test the system.

**Performance Testing:** In performance testing, I checked the website on different browsers to ensure that the website can handle a large number of users and traffic.

Overall, I used a combination of these testing methods to ensure that the Channel-Based Chat Tool is functioning as expected. I also tested the website on different devices and browsers to ensure compatibility with a wide range of users. In conclusion, the Channel-Based Chat Tool has undergone rigorous testing to ensure that it is secure, reliable, and user-friendly.