**Functional Test Case: -**

1. Test the app's compatibility with different Android and iOS devices, ensuring a consistent and user-friendly experience across various screen sizes, resolutions, and orientations.

2. Ensure that the delivery agent's app correctly displays all relevant details of assigned orders, such as order number, customer name, delivery address, and items to be delivered.

3. Validate that the operational manager can track the actual movement of the delivery agent on a map interface.

4. Verify that the app consistently captures the current location using GPS and sends it to the server at regular intervals.

5. Test the responsiveness of the app's user interface when monitoring the real-time tracking of multiple delivery agents simultaneously.

6. Validate that the app promptly sends real-time notifications to the delivery agent for new order assignments or updates to existing orders.

7. Verify that the app complies with privacy regulations by displaying the delivery agent's location and tracking information only to authorized personnel (i.e., the operational manager) and maintaining appropriate data access controls.

8. Verify that the app accurately calculates and presents the estimated time of arrival (ETA) for each order, considering factors like traffic conditions and distance.

9. Validate that the app accurately stores and presents historical tracking information, allowing the operational manager to review past delivery routes and locations for analysis or auditing purposes.

10. Test the app's ability to handle potential errors or exceptions related to location tracking, such as invalid GPS data or server communication issues, and ensure that it provides clear error messages and recovers gracefully without data loss.

**Non-Functional Test Case: -**

1. Performance: Test the app's performance under various load conditions to ensure it can handle tracking data from multiple delivery agents without significant delays.
2. Scalability: Verify that the tracking system can handle a large number of delivery agents (more than 1000) without impacting the performance or accuracy of location updates.
3. Security: Ensure that the location data transmitted between the app and server is encrypted to maintain the privacy and integrity of the information.
4. Reliability: Test the app's reliability by simulating network disruptions and verifying if the location updates resume seamlessly once the connection is restored.
5. Usability: Evaluate the user interface of the app to ensure it is intuitive and easy to navigate for both delivery agents and the operational manager.
6. Compatibility: Test the app on different versions of Android and iOS devices to ensure it functions correctly across a variety of platforms.
7. Battery Consumption: Measure the app's impact on device battery life during continuous GPS tracking to ensure it is optimized for power efficiency.
8. Accuracy: Validate the accuracy of the GPS tracking by comparing the app's reported location with the delivery agent's actual physical location.
9. Data Synchronization: Test the synchronization between the app and server to ensure that the location updates are received and processed accurately and in a timely manner.
10. Error Handling: Verify that the app handles any unexpected errors or exceptions during the tracking process gracefully, providing appropriate error messages and recovering without data loss.