

## **LO1: Assessing the Appropriateness of Chosen Testing Approach**

**Strengths in Black-Box Testing:** It focuses on the external functionality of the system that ensures that the drone system meets customer and restaurant requirements. Effectively evaluates the interface and the overall process flow from order placement to delivery. Ensures the system behaves as expected in various scenarios, including handling invalid orders or payment issues and facilitating independent testing.

**Limitation of Black-Box Testing:** I cannot assess the quality or efficiency of the underlying code or algorithms. Some scenarios, especially edge cases in complex systems like drone navigation, might be missed.

**Strengths in White-Box Testing:** Ensures all paths within the code, especially in critical algorithms like navigation and order processing, are thoroughly tested. Uncovers issues that are not apparent from the system's external behavior, such as security vulnerabilities or potential performance bottlenecks. Allows for the optimization of code for better efficiency and reliability, which is important for drone navigation and facilitates pinpointing the exact location of defects within the code.

**Limitation of White-Box Testing:** Issues related to the interface or overall system usability might be missed.