FUNCTIONAL AND PERFORMANCE TESTING

Date	21 March 2025
Team ID	PNT2025TMID06956
Project Name	Predicting Plant Growth Stages with Environmental and Management Data
Maximum Marks	4 Marks

FUNCTIONAL AND PERFORMANCE TESTING:

Performance testing evaluates how the system performs under expected and peak loads.

The following aspects are tested:

- ➤ **Load Testing** Determines how the system handles multiple users accessing the dashboard simultaneously.
- > Stress Testing Assesses system behavior under extreme conditions, such as high data input or network lag.
- Scalability Testing Ensures the system can efficiently handle increasing amounts of data and user interactions.
- Response Time Analysis Measures the time taken to process and display reports in Power BI.
- ➤ **Data Processing Speed** Evaluates how quickly large datasets are imported, cleaned, and visualized.
- > System Resource Utilization Monitors CPU, memory, and network usage during peak operations.