Project Development Phase
Performance Test

Date	28 March 2025
Team ID	SWTID1742575574
Project Name	Grocery webapp
Maximum Marks	

Performance Testing:

The performance testing strategy for the Grocery WebApp aims to ensure that the application performs seamlessly under various workloads, delivers fast response times, and maintains stability and scalability. This strategy involves simulating real-world user scenarios and measuring how the application behaves under stress, load, and peak usage. It includes various testing types such as load testing to evaluate the behavior under expected user load, stress testing to determine the breaking point, endurance testing to ensure stability over extended periods, and spike testing to evaluate response to sudden traffic surges.

The primary objective is to identify bottlenecks in the system, ensure optimal performance of key functionalities (such as product browsing, cart operations, and secure checkout), and validate the scalability of backend services including API performance and database queries.

Test Case	Scenario Description	Expected Result	Actual Result	Status
TC-01	Homepage Load under 20 users	Load within 2s	1.6s avg	Pass
TC-02	Product Search under load	< 400ms	390ms avg	Pass
TC-03	Checkout API under 100 users	< 3s	2.2s	Pass
TC-04	Upload 5MB product image	< 5s	2.8s	Pass
TC-05	Payment gateway callback	< 2s	1.3s	Pass
TC-06	Load 100 product items on screen	< 3s	2.1s	Pass
TC-07	User login under 75 concurrent requests	< 1.5s	1.2s	Pass