## Capstone: Testing Plan

Information Systems Development and Design and Capstone Course (IS-5303)

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This document will provide an overview of the testing functions and details that will take place in various phases of the project life cycle for Server on Door. The aim of the testing plan is to provide the most viable and effective system for all the users of the e-commerce system. The test plan will be created for various levels of the project as below:

|  |  |
| --- | --- |
| Testing Module | Details |
| Unit Testing | All the developers will be responsible for unit testing. In this testing phase, individual interfaces will be tested for their operations. This can be done independently. This testing will extend to system testing once all the individual interfaces are tested. |
| Integration Testing | Once the prototype or the original project is deployed in development environment, all the teams will work together to perform the integration testing to test functional use cases. |
| Performance Testing | Load testing will be performed by replicating the real-world customer base and bombard the system to test its performance and responses. |
| Negative Testing | This set of test plan will be embedded in all the testing phases to determine all possible failure points and the remedies needed to resolve them. This testing will create list of bugs and enhancements for the betterment of the product. |
| User Acceptance Testing | This is the official user acceptance or production assurance testing, where the system will be tested by proxy users to test the product functionality in real world. |
| Migration Testing | This test plan will include a set of test cases which has to be performed every time the company thinks to migrate the product, such as in case of major upgrade, disaster, or backup. |

Based on the type of the test plan, the deliverables of the test plan changes. A large chunk of the project timeline will be devoted to test plan and testing so that we can deliver the best possible product to the end user.