**TESTING**

**CHAPTER 7**

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**7.1 Unit Testing:**

Unit tests are a form of software testing that focuses on verifying the individual functionality of its smallest components, called units. These can be functions, methods, or classes of our application. The main purpose of unit tests is to validate the correct behavior and functionality of these units.

**7.2 Integration Testing:**

Integration testing involves testing the integration of various modules and components of the system to ensure they work together as expected. In a case of crowdfunding platform project integration testing would involve testing blockchain, smart contract and transaction segment.

**7.3 System Testing:**

System testing involves testing the entire system as a whole to ensure that it meets a specified requirements and performs as expected.

**7.4 Performance Testing:**

Performance testing is involves testing the system’s performance under various loads and the conditions to ensure that it’s meet performance requirements. In the case of the crowdfunding platform project performance testing would involve testing the system’s responsive time, and throughput, reliability under various loads and conditions.

**7.5 Security Testing:**

Security testing involves a testing the system’s security measures to ensure that they are very effective and protect the system from unauthorized access and attacks. In the case of our crowdfunding platform project security testing would have involve testing the blockchain and smart contract and the transaction segments.

**7.6 User Acceptance Testing:**

User acceptance testing involves testing the system from the user’s perspective to ensure that it meets their requirements and expectations. In the case of the crowdfunding platform project user acceptance testing would involve testing the system’s usability, and ease of use, and the user interface.