

Project Development Phase Performance Test

Date	18 May 2023
Team ID	NM2023TMID01199
Project Name	Smart billing system for water suppliers

Performance Testing:

It is a non-functional software testing technique that determines how the stability, speed, scalability, and responsiveness of an application holds up under a given workload. It's a key step in ensuring software quality, but unfortunately, is often seen as an afterthought, in isolation, and to begin once functional testing is completed in most cases, after the code is ready to release.

NFT: (Non-Fungible Token)

NFT stands for Non-Fungible Token. It is a type of digital asset that represents ownership or proof of authenticity of a unique item or piece of content, typically using blockchain technology. Unlike cryptocurrencies such as Bitcoin or Ethereum, which are fungible and can be exchanged on a one-to-one basis, NFTs are distinct and cannot be exchanged on a like-for-like basis because they each have unique attributes or properties.

- Uniqueness
- Digital Assets
- Ownership and Authenticity
- Smart Contracts
- Marketplaces and Trading
- Interoperability
- Royalties and Secondary Sales
- Potential Applications

Here, I have created the various NFT parameters for our project like

1. NFT Risk Assessment
2. NFT Detailed Test Plan
3. End of Test Report which includes Test Approaches, NFR (Non- Functional Requirements) MET, Test outcome, GO / NO-GO Decisions as well as Recommendations, Identified Defects in which the defect is detected, closed or opened condition and Approval, sign OFF Credentials as shown below.

The various NFT Criteria are tabulated below.

Step-1:

The NFT- Risk Assessments and detailed Test Plans are mapped.

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Step-2:

The End of NFT Test Report is determined for our project.

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End Of Test Report									
S.No	Project Overview	NFT Test approach	NFR - Met	Test Outcome	OWNO-QO decision	Recommendations	Identified Defects (Detected/Closed/Open)	Approvals/SignOff	
1	Smart Billing System for Water Suppliers	Develop test cases to cover different aspects of NFT usage, including normal, boundary, and exception cases.	Evaluate the Smart Billing System against defined NFRs, such as performance, availability, security, reliability, and usability.	Functional test	Based on the test results, stakeholders will make a Go/No-Go decision regarding the deployment of the Smart Billing System.	Provide recommendations for improvement based on the test outcomes and observations.	Detected	Project Sponsor	
		Develop test cases to cover different aspects of NFT usage, including normal, boundary, and exception cases.	Measure system response times, resource utilization, and transaction processing capabilities to validate performance requirements.	Disaster recovery test	If test system meets all functional and non-functional requirements, and the identified defects are resolved satisfactorily, a Go decision is made to proceed with the implementation.	Suggest optimizations for performance, scalability, security, user experience, or other areas where enhancements can be made.	Opened	Project Manager	
		Set up test environments with the necessary infrastructure, including smart meters, communication channels, and NFT platforms.	Verify data encryption, access controls, and security protocols to ensure compliance with security requirements.	Security test	If critical defects are identified, stakeholders must make a decision to either fix the issues, or the system fails to meet key requirements, a No-Go decision is made, and further improvements or fixes are required before implementation.	Provides recommendations for improvement based on the test outcomes and observations.	Opened	Finance and IT Department	

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		Set up test environments with the necessary infrastructure, including smart meters, communication channels, and NFT platforms.	Verify data encryption, access controls, and security protocols to ensure compliance with security requirements.	Security test		If critical defects are identified, showstopper issues arise, or the system fails to meet key requirements, a No-Go decision is made, and further improvements or fixes are required before implementation.	Provides recommendations for improvement based on the test outcomes and observations.	Opened		Finance and IT Department																
		Execute functional, performance, security, and integration, and usability tests specific to NFT-related features. Perform regression testing to ensure existing	Conduct stress and load testing to assess system scalability under expected user and transaction volumes.	Scalability test		Based on the test results, stakeholders will make a Go/No-Go decision regarding the deployment of the Smart Billing System.	Identify any potential risks or areas of concern that need to be addressed before deployment.	Detected		Project Manager																
		Conduct compliance testing to verify adherence to relevant data protection regulations and industry standards.	Gather user feedback and conduct usability testing to determine if the system meets usability requirements.	Performance test		If critical defects are identified, showstopper issues arise, or the system fails to meet key requirements, a No-Go decision is made, and further improvements or fixes are required before implementation.	Suggest optimizations for performance, scalability, security, user experience, or other areas where enhancements can be made.	Cloud		Customer Representatives																

NFT- RA DTP

Ready Accessibility: Good to go

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Here, we developed the NFT Algorithm for this water systems. It's important to note that while NFTs have gained considerable attention and popularity, they have also raised discussions around environmental impact, intellectual property rights, and the sustainability of the market. As with any emerging technology, the long-term implications and adoption of NFTs continue to evolve.