PERFORMANCE TESTING

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| **TEAM ID** | PNT2022TMID46309 |
| **PROJECT DOMAIN** | INTERNET OF THINGS |
| **PROJECT TITLE** | IoT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE |
| **DATE** | 24 NOVEMBER 2022 |

NFT - RISK ASSESSMENT

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Functional Changes** | **Hardware Changes** | **Software Changes** | **Load/Volume Changes** | **Risk Score** | **Justification** |
| Moderate | No Changes | Moderate | >10 to 30% | Orange | Changes occurs less |
| Moderate | No Changes | Moderate | >10 to 30% | Orange | Some changes occur |

NFT - DETAILED TEST PLAN

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| --- | --- | --- | --- | --- |
| **S.No** | **Project Overview** | **NFT Test Approach** | **Approvals/SignOff** | **Assumptions/Dependencies/Risks** |
| 1. | Python Script | Python Coding | <https://www.python.org/psf/sponsors/#heroku> | Depend on the Delivered Code |
| 2. | NodeRED | Sensor and Command Values | <https://nodered.org/> | Sensor Values |
| 3. | Mit App Inventor | Motor Control/Sensors Notifications | <https://appinventor.mit.edu/about/termsofservice> | Notifications |
| 4. | Clarifai | To Detect Animals and Birds | [https://portal.clarifai.com](https://portal.clarifai.com/) | Detection |

END OF TEST REPORT

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **NFR Met** | **Test Outcome** | **GO/NO- GO**  **decision** | **Identified Defects (Detected/Closed/Open)** | **Recommendations** | **Approvals/SignOff** |
| Met | Pass | GO | Closed | Efficient code | <https://www.python.org/psf/sponsors/#heroku> |
| Met | Pass | GO | Closed | Sensing the values perfectly | <https://nodered.org/> |
| Met | Pass | GO | Closed | Notifies the users at correct time | <https://appinventor.mit.edu/about/termsofservice> |
| Met | Pass | GO | Closed | Detects animal and alert user | [https://portal.clarifai.com](https://portal.clarifai.com/) |