**NFT:**

**Risk Assessment :**

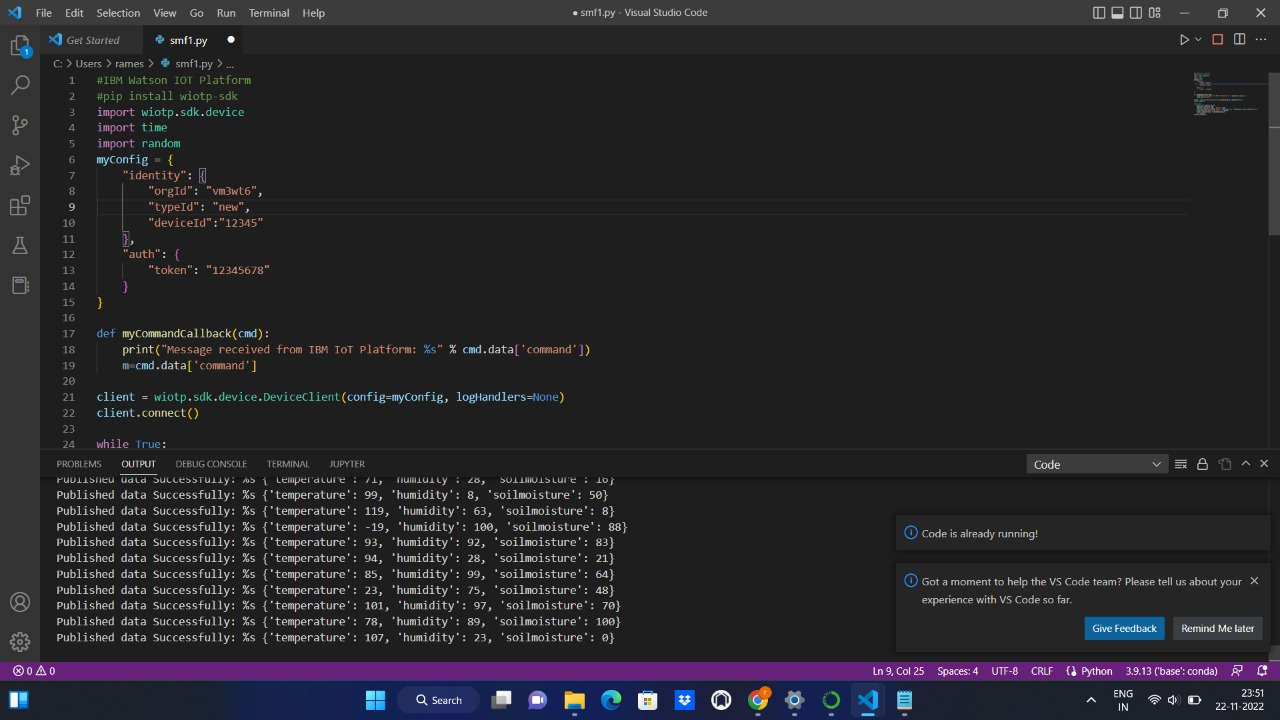
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| --- | --- | --- |
| **S.NO** | **NFT** | **Description** |
| 1. | Project Name | SmartFarmer - IoT Enabled Smart Farming Application |
| 2. | Scope/Feature | IoT sensor nodes gather data from the agricultural environment, including soil moisture, air humidity, temperature, the nutrients in the soil, pest images, and water quality, and then send the gathered information to IoT backhaul devices.The farmer can control the motor from anywhere, which is helpful. |
| 3. | Functional Changes | Low |
| 4. | Hardware Changes | No Changes |
| 5. | Software Changes | No changes |
| 6. | Impact of Downtime | <0% |
| 7. | Load/Volume Changes | >5 to 10% |
| 8. | Risk Score | Green |
| 9. | Justification | No changes |

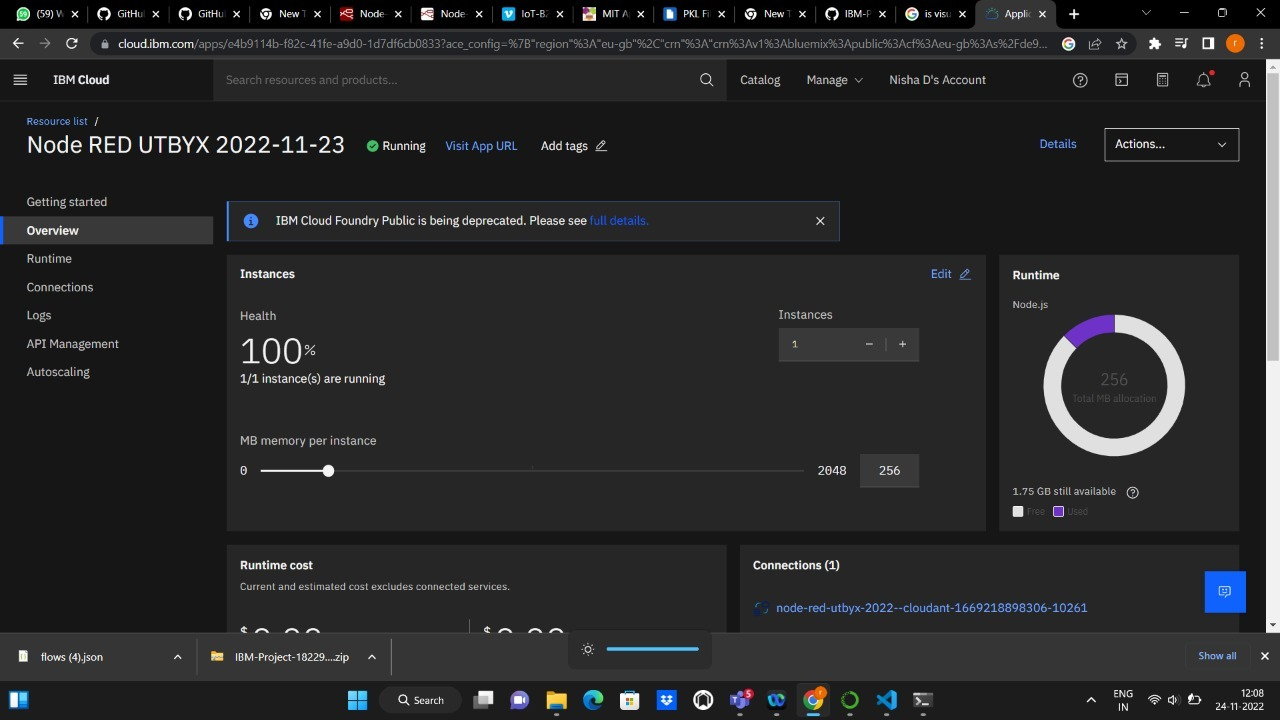
**Detailed Test Plan:**

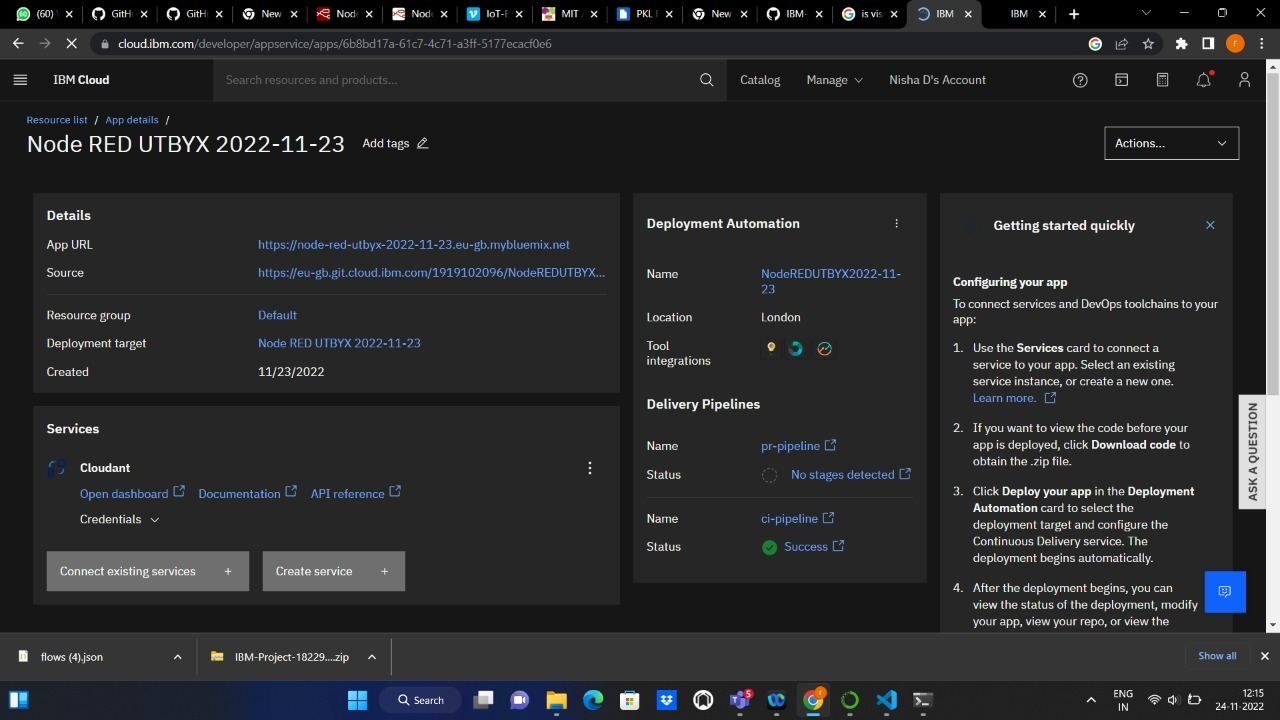
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| **S.No** | **Test plan** | **Description** |
| 1. | Project Overview | The act of watering a field is challenging; farmers must wait in the field until the entire farm field is submerged in water. One of the issues is the power supply. The availability of power in the village may be variable. The IoT in Agriculture Faces the Following Major Challenges high lack of information security, cost, adoption worries, etc. |
| 2. | NFT Test Approach | It includes the ability to learn quickly and efficiently. Lack of errors in operation Sensitive and private data must be protected from  production until the decision-making and storage stages.The shared protection achieves a better trade-off.between costs and reliability. Implementing sensors with soil and environmental data Ambient parameters in farming will be more efficient.for monitoring the fields.Automatic adjustment of farming equipment possible by linking information like crops and auto adjustments for temperature, humidity, etc. It is a major concern for IOT platforms. It has been shown that different architectural choices and Automatic real-time decision-making is feasible in an environment |
| 3. | Assumptions/Dependencies/Risks | No Risk |

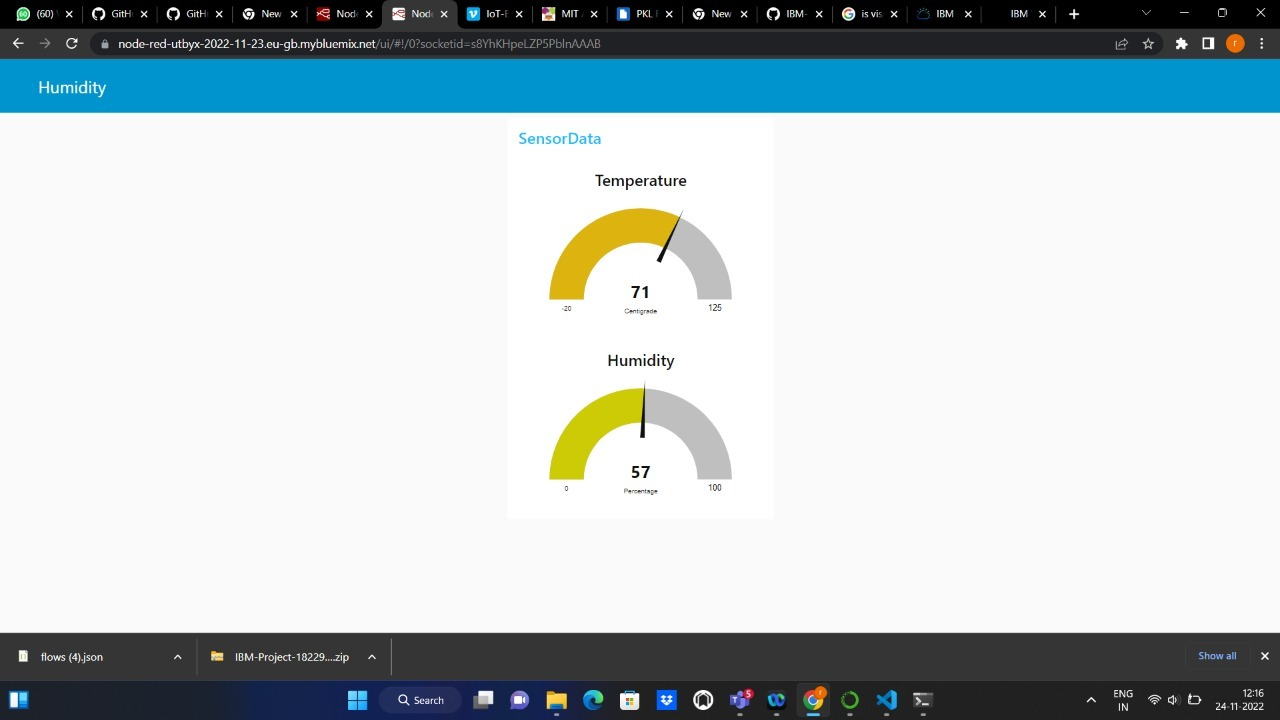
**End of Test Report :**

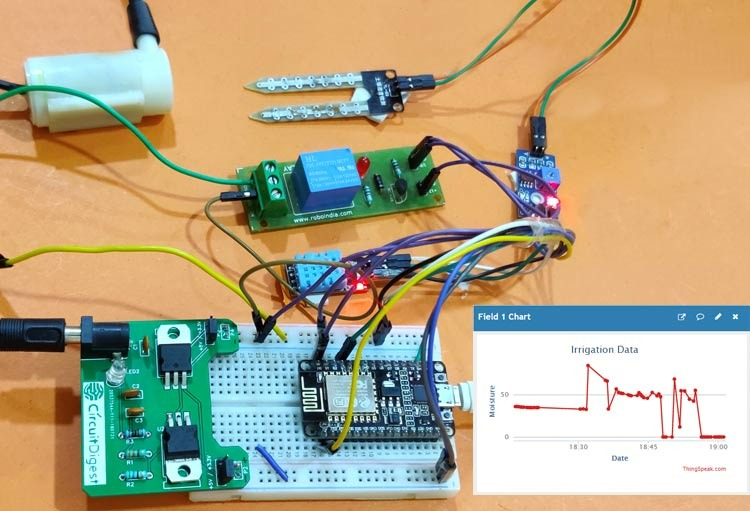
**Test Outcome :**

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