**Acceptance Testing**

**UAT Execution & Report Submission**

| Date | 24 November 2022 |
| --- | --- |
| Team ID | PNT2022TMID18497 |
| Project Name | SmartFarmer - IoT Enabled Smart Farming Application |
| Maximum Marks | 4 Marks |

# **1.Purpose Of Document:**

People who work in agricultural fields Deal with the expense of labour, soil degradation, climate change, and biodiversity loss. loss of farmland and a decline in the variety of livestock and crops produced. Increasing challenges from soil erosion and climatic change, which largely originate with the beginning of farming, It's necessary for the development of higher-quality food goods. It's critical to increase crop yield. It's critical to keep the soil rich. A new application is available that allows users to schedule activities for a month or a day and access various details about their property remotely. Additionally, based on the crop the user planted, it offers advice to the user. Some internet searches yield results based on the crop grown. The process is controlled by an Arduino microcontroller, together with a number of sensors. a GSM-based alarm message. MIT App Inventor was used to create the app.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.

**2.Defect Analysis:**

| **Resolution** | **Severity 1** | **Severity 2** | **Severity 3** | **Severity 4** | **Subtotal** |
| --- | --- | --- | --- | --- | --- |
| By Design | 0 | 0 | 0 | 0 | 0 |
| Duplicate | 6 | 3 | 0 | 0 | 9 |
| External | 2 | 4 | 0 | 0 | 6 |
| Fixed | 5 | 2 | 0 | 0 | 7 |
| Not Reproduced | 0 | 0 | 1 | 0 | 1 |
| Skipped | 0 | 0 | 1 | 0 | 1 |
| Won't Fix | 0 | 5 | 0 | 0 | 0 |
| Totals | 13 | 9 | 2 | 0 | 24 |