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| **Test Case ID** | **Name of Module** | **Pre-conditions** | **Test Steps** | **Test data** | **Expected Results** | **Actual Result** | **Test Result** |
| TC01 | Prediction | Access to web browser | Visit the site, and navigate to prediction page | SO2 = 8, NO2 = 16,  RSPM=101, SPM=149,  N = 90, P = 42, K = 43,  Temperature=20, pH=6,  Humidity = 82, Rainfall = 202 | Display prediction = “Rice” | Actual prediction = “Rice” | pass |
| TC02 | Prediction | Access to web browser | Visit the site and navigate to prediction page | SO2 = 8, NO2 = 20,  RSPM=107, SPM=157,  N = 71, P = 54, K = 16,  Temperature=22, Humidity=63,  pH = 6, Rainfall = 87 | Display prediction = “Maize” | Actual prediction = “Maize” | pass |
| TC03 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 11, NO2 = 24,  RSPM = 119, SPM = 213,  N = 40, P =72 , K = 77,  Temperature = 17, Humidity = 17,  pH = 7, Rainfall = 88 | Display prediction = “Chickpea” | Actual prediction = “Chickpea” | pass |
| TC03 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 9, NO2 = 20,  RSPM = 121, SPM = 195,  N = 33, P = 73, K = 23,  Temperature = 29, Humidity = 59,  pH = 6, Rainfall = 103 | Display prediction = “Pigeon peas” | Actual prediction = “Pigeon peas” | pass |
| TC05 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 11, NO2 = 24,  RSPM = 142, SPM = 176,  N = 14, P = 55, K = 15,  Temperature = 27, Humidity = 55,  pH = 8, Rainfall = 73 | Display prediction = “Moth beans” | Actual prediction = “Moth beans” | pass |
| TC06 | Prediction | Access to web browser | Visit the site, and navigate to prediction page | SO2 = 11, NO2 = 25,  RSPM = 93, SPM = 207,  N = 9, P = 57, K = 24,  Temperature = 30, Humidity = 90,  pH = 7, Rainfall = 43 | Display prediction = “Mung bean” | Actual prediction = “Mung bean” | pass |
| TC07 | Prediction | Access to web browser | Visit the site and navigate to prediction page | SO2 = 9, NO2 = 22,  RSPM = 110, SPM = 184,  N = 55, P = 66, K = 22,  Temperature = 31, Humidity = 68,  pH = 8, Rainfall = 66 | Display prediction = “Blackgram” | Actual prediction = “Blackgram” | pass |
| TC08 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 8, NO2 = 24,  RSPM = 137, SPM = 261,  N = 3, P = 69, K = 23,  Temperature = 29, Humidity = 63,  pH = 7, Rainfall = 43 | Display prediction = “Lentil” | Actual prediction = “Lentil” | pass |
| TC09 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 12, NO2 = 27,  RSPM = 107, SPM = 217,  N = 109, P = 79, K = 45,  Temperature = 28, Humidity = 80,  pH = 6, Rainfall = 108 | Display prediction = “Banana” | Actual prediction = “Banana” | pass |
| TC10 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 4, NO2 = 20,  RSPM = 53, SPM = 143,  N = 1, P = 8, K = 26,  Temperature = 27, Humidity = 94,  pH = 5, Rainfall = 156 | Display prediction = “Coconut” | Actual prediction = “Coconut” | pass |
| TC11 | Prediction | Access to web browser | Visit the site, and navigate to prediction page | SO2 = 11, NO2 = 24,  RSPM = 101, SPM = 193,  N = 140, P = 38, K = 15,  Temperature = 24, Humidity = 76,  pH = 6, Rainfall = 70 | Display prediction = “Cotton” | Actual prediction = “Cotton” | pass |
| TC12 | Prediction | Access to web browser | Visit the site and navigate to prediction page | SO2 = 6, NO2 = 20,  RSPM = 94, SPM = 215,  N = 100, P = 35, K = 36,  Temperature = 25, Humidity = 72,  pH = 6, Rainfall = 190 | Display prediction = “Jute” | Actual prediction = “Jute” | pass |
| TC13 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 9, NO2 = 17,  RSPM = 102, SPM = 214,  N = 62, P = 28, K = 27,  Temperature = 25, Humidity = 62,  pH = 6, Rainfall = 79 | Display prediction = “Wheat” | Actual prediction = “Wheat” | pass |
| TC14 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 10, NO2 = 20,  RSPM = 66, SPM = 148,  N = 79, P = 30, K = 28,  Temperature = 24, Humidity = 79,  pH = 6, Rainfall = 77 | Display prediction = “Sugarcane” | Actual prediction = “Sugarcane” | pass |
| TC15 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 13, NO2 = 27,  RSPM = 168, SPM = 289,  N = 55, P = 10, K = 15,  Temperature = 23, Humidity = 42,  pH = 6, Rainfall = 55 | Display prediction = “Barley” | Actual prediction = “Barley” | pass |
| TC16 | Prediction | Access to web browser | Visit the site, and navigate to prediction page | SO2 = 7, NO2 = 19,  RSPM = 99, SPM = 199,  N = 82, P = 13, K = 45,  Temperature = 25, Humidity = 68,  pH = 5.5, Rainfall = 45 | Display prediction = “Small millets” | Actual prediction = “Small millets” | pass |
| TC17 | Prediction | Access to web browser | Visit the site and navigate to prediction page | SO2 = 10, NO2 = 23,  RSPM = 55, SPM = 178,  N = 45, P = 20, K = 24,  Temperature = 25, Humidity = 82,  pH = 6, Rainfall = 98 | Display prediction = “Ragi” | Actual prediction = “Ragi” | pass |
| TC18 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 4, NO2 = 18,  RSPM = 93, SPM = 151,  N = 34, P = 58, K = 32,  Temperature = 25, Humidity = 55,  pH = 6, Rainfall = 90 | Display prediction = “Dry Chillies” | Actual prediction = “Dry Chillies” | pass |
| TC19 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 5, NO2 = 20,  RSPM = 65, SPM = 142,  N = 95, P = 13, K = 85,  Temperature = 28, Humidity = 47,  pH = 5, Rainfall = 95 | Display prediction = “Areca nut” | Actual prediction = “Areca nut” | pass |
| TC20 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 10, NO2 = 27,  RSPM = 147, SPM = 248,  N = 40, P = 20, K = 35,  Temperature = 19, Humidity = 68,  pH = 6, Rainfall = 40 | Display prediction = “Garlic” | Actual prediction = “Garlic” | pass |
| TC21 | Prediction | Access to web browser | Visit the site, and navigate to prediction page | SO2 = 9, NO2 = 16,  RSPM = 81, SPM = 185,  N = 170, P = 200, K = 80,  Temperature = 26, Humidity = 70,  pH = 7, Rainfall = 100 | Display prediction = “Turmeric” | Actual prediction = “Turmeric” | Pass |
| TC22 | Prediction | Access to web browser | Visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display prediction = “Jowar” | Actual prediction = “Jowar” | pass |
| TC23 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 100, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter valid value for SO2” | Display message : “Enter valid value for SO2” | pass |
| TC24 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = -6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter valid value for SO2” | Display message : “Enter valid value for SO2” | pass |
| TC25 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 100,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter valid value for NO2” | Display message : “Enter valid value for NO2” | pass |
| TC26 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = -23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter valid value for NO2” | Display message : “Enter valid value for NO2” | pass |
| TC27 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 1000, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter valid value for RSPM” | Display message : “Enter valid value for RSPM” | pass |
| TC28 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = -88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter valid value for RSPM” | Display message : “Enter valid value for RSPM” | pass |
| TC29 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 1950,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter valid value for SPM” | Display message : “Enter valid value for SPM” | pass |
| TC30 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = -19,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter valid value for SPM” | Display message : “Enter valid value for SPM” | pass |
| TC31 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 500, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter valid NPK values” | Display message : “Enter valid NPK values” | pass |
| TC32 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = -45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter valid NPK values” | Display message : “Enter valid NPK values” | pass |
| TC33 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 500, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter valid NPK values” | Display message : “Enter valid NPK values” | pass |
| TC34 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = -25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter valid NPK values” | Display message : “Enter valid NPK values” | pass |
| TC35 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 500,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter valid NPK values” | Display message : “Enter valid NPK values” | pass |
| TC36 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = -55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter valid NPK values” | Display message : “Enter valid NPK values” | pass |
| TC37 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 100, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter valid temperature” | Display message : “Enter valid temperature” | pass |
| TC38 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = -10, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter valid temperature” | Display message : “Enter valid temperature” | pass |
| TC39 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 150,  pH = 7, Rainfall = 78 | Display message : “Enter valid humidity value” | Display message : “Enter valid humidity value” | pass |
| TC40 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = -5,  pH = 7, Rainfall = 78 | Display message : “Enter valid humidity value” | Display message : “Enter valid humidity value” | pass |
| TC41 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 4, Rainfall = 78 | Display message : “Enter valid pH value” | Display message : “Enter valid pH value” | pass |
| TC42 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 10, Rainfall = 78 | Display message : “Enter valid pH value” | Display message : “Enter valid pH value” | pass |
| TC43 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 2000 | Display message : “Enter valid rainfall value” | Display message : “Enter valid rainfall value” | pass |
| TC44 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = -10 | Display message : “Enter valid rainfall value” | Display message : “Enter valid rainfall value” | pass |
| TC45 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = “abc”, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter only numeric values” | Display message : “Enter only numeric values” | pass |
| TC46 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = “abc”,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter only numeric values” | Display message : “Enter only numeric values” | pass |
| TC47 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = “abc”, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter only numeric values” | Display message : “Enter only numeric values” | pass |
| TC48 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = “abc”,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter only numeric values” | Display message : “Enter only numeric values” | pass |
| TC49 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = “abc”, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter only numeric values” | Display message : “Enter only numeric values” | pass |
| TC50 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = “abc”, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter only numeric values” | Display message : “Enter only numeric values” | pass |
| TC51 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = “abc”,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter only numeric values” | Display message : “Enter only numeric values” | pass |
| TC52 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = “abc”, Humidity = 55,  pH = 7, Rainfall = 78 | Display message : “Enter only numeric values” | Display message : “Enter only numeric values” | pass |
| TC53 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = “abc”,  pH = 7, Rainfall = 78 | Display message : “Enter only numeric values” | Display message : “Enter only numeric values” | pass |
| TC54 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = “abc”, Rainfall = 78 | Display message : “Enter only numeric values” | Display message : “Enter only numeric values” | pass |
| TC55 | Prediction | Access to web browser | visit the site and navigate to prediction page | SO2 = 6, NO2 = 23,  RSPM = 88, SPM = 195,  N = 45, P = 25, K = 55,  Temperature = 26, Humidity = 55,  pH = 7, Rainfall = “abc” | Display message : “Enter only numeric values” | Display message : “Enter only numeric values” | pass |