# Agronomist Field Visit Reporting System Specification

## Core Functional Features

- **User:** Agronomists & Office (Supervisory role)
- **Entity:** Shisha Tobacco Farmer (per visit/report)
- **Purpose:** Capture field-level reports during each farm visit, monitor farm progress, flag issues, and provide guidance.

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## General Report Structure

Each field visit report should include:

1. **Date of Visit**
2. **Time Spent on the Field** (e.g., in hours/minutes)
3. **Current Stage of Production**
   *(Dropdown options)*:
     - Farm Assessment
     - Contracting
     - Seedbed
     - Planting
     - Growing
     - Reaping
     - Curing
     - Grading and Balling
     - Selling
     - Debtor
     - Debt Collector
     - Discarded
     - Completed
4. **Summary of Activities/Observations** (Open Text)
5. **Color-coded Status Indicator**
     - Green: Going well
     - Amber/Yellow: Needs attention
     - Red: Not going well – needs immediate management intervention
6. **Description of Challenges (if any)** (Open text field)
7. **Recommended Actions/Interventions** (Open text field)
8. **Was Previous Report Acted On?** (Yes/No/Partial – with explanation)
9. **Time and Date stamped Photos Upload For EVERY VISIT** (field for attaching field images/media with unlimited size)
10. **GPS Coordinates / Auto-location Tagging** (Mandatory)

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## Stage-Specific Questions

**Farm Assessment**

- How many barns are available?
- Condition of barns? (Good/Fair/Poor)
- Acreage available for tobacco?
- Soil type?
- Water source available? (Yes/No, specify type)
- Land preparation status? (Cleared, Plowed, Not Started)
- General Observations

**Contracting**

- Is the contract signed? (Yes/No)
- Any disputes or concerns from farmer?
- Number of family members or labor available?
- Is the collateral available?
- Was the collateral Approved?
- Addresses verified?
- Additional Notes

**Seedbed**

- Has seedbed been prepared? (Yes/No)
- Number of seedbeds?
- Germination rate (Estimate %)?
- Seedling health (Good/Average/Poor)?
- Any pest/disease signs?
- Recommendations

**Planting**

- Area planted (acres)?
- Seedling source and quality?
- Spacing and planting quality?
- Pest/disease signs?
- Recommendations

**Growing**

- Crop health status? (Green/Amber/Red)
- Fertilizer application done? (Yes/No – Type?)
- Any pest/disease management done?
- Weed control situation?
- Recommendations

**Reaping**

- Number of leaves per plant (approx)?
- Are leaves mature and correctly timed for reaping?
- Storage method after reaping?
- Recommendations

**Curing**

- Number of barns in use?
- Barn condition and equipment?
- Are farmers curing at the right stage?
- Any mold/curing problems?
- Recommendations

**Grading and Balling**

- How many grades observed?
- Are farmers grading correctly?
- Storage conditions for balled tobacco?
- Recommendations

**Selling**

- Quantity sold (kg)?
- Price per kg?
- Buyer involved?
- Any complaints or issues?
- Recommendations

**Debtor**

- Is farmer in debt? (Yes/No – Amount)
- Cause of debt?
- Repayment plan in place?

**Debt Collector**

- Collection efforts made? (Yes/No)
- Farmer willingness to pay?
- Status and recommendation

**Discarded**

- Reason for discarding?
- Was management informed?
- Recommendations moving forward

**Completed**

- Final assessment of the farmer's cycle
- Overall rating (1–5 stars)
- Any closing notes or lessons?

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## Additional Features

- **Farm History Tab**: View all past reports for the farm
- **Alerts/Flags**: Red-status farms should automatically notify supervisors
- **Data Export**: PDF or Excel reports
- **Dashboard Analytics** (Optional phase): Show status across all farmers, filter by color code, stage, etc.
- **Offline Access**: Important for field agents without connectivity

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## Fields List Summary for Developer

| Field Name | Type | Mandatory |
| --- | --- | --- |
| Date of Visit | Date Picker | Yes |
| Time on Field | Time Duration | Yes |
| Stage of Production | Dropdown | Yes |
| Observations Summary | Text | Yes |
| Color-coded Status | Dropdown (G/Y/R) | Yes |
| Challenges & Issues | Text | Yes |
| Recommended Actions | Text | Yes |
| Previous Report Acted On? | Dropdown + Text | Yes |
| Stage-specific Questions | Dynamic per stage | Yes |
| Upload Photos | Image upload | Yes |
| GPS/Location | Auto-detect | Yes |