# Day 9

## To do For 2 Week:

Create Wireframe for Website

## Category:

Phase 1 - Planning & Designing Wireframes

Today's Work:

**Create Wireframe of Decision Making Page**

### 3. Decision-Making Page Data

Farmers can manage their finances comprehensively, track income and expenses, plan budgets, manage debts, analyze investments, and access financial forecasts and insights.

The Decision-Making page should provide farmers with the tools and information needed to make informed decisions about their farming operations. Here is a comprehensive list of the types of data to include on this page:

1. Dashboard Overview
    - Current Status: Overview of current farm conditions and operations.
    - Key Metrics: Important metrics such as yield, profitability, and resource utilization.
    - Action Items: List of recommended actions based on current data.
2. Weather and Climate Data
    - Current Weather: Real-time weather conditions.
    - Weather Forecast: Short-term and long-term weather forecasts.

    - Climate Trends: Historical climate data and trends for the region.
3. Crop Management Data
    - Crop Health: Current health status of crops (e.g., using satellite imagery, drone data).
    - Pest and Disease Alerts: Alerts for potential pest and disease issues.
    - Growth Stage: Current growth stage of crops.
    - Treatment Recommendations: AI-powered suggestions for pest control, fertilization, and other treatments.
4. Market Data
    - Current Market Prices: Real-time prices of crops and commodities.
    - Demand Forecasts: Predictions for future demand based on market trends.
    - Sales Recommendations: Suggestions for optimal times to sell crops.
5. Resource Management
    - Water Usage: Current and projected water usage.
    - Soil Health: Soil condition and recommendations for improvement.
    - Labor Management: Overview of labor requirements and availability.
6. Financial Data
    - Cost-Benefit Analysis: Analysis of costs versus benefits for various farming activities.
    - Profitability Reports: Detailed reports on profitability by crop, field, or activity.
    - Investment Opportunities: Suggestions for potential investments in technology, equipment, or new crops.
7. Scenario Planning Tools
    - What-If Scenarios: Tools to simulate different scenarios (e.g., changing crops, investing in new technology).
    - Risk Assessment: Evaluation of risks associated with different decisions.

    - Outcome Predictions: Predictions of outcomes based on different scenarios.
8. Community and Expert Advice
    - Community Forums: Access to forums where farmers can discuss challenges and share advice.
    - Expert Consultations: Option to consult with agricultural experts or advisors.
    - Best Practices: Access to articles and guides on best farming practices.
9. Decision Support Tools
    - Decision Matrix: Tools to help weigh different factors and make decisions.
    - Priority List: List of prioritized actions based on current data and recommendations.
    - Alerts and Notifications: Notifications for important events or actions that need to be taken.

## Example Layout

### Decision-Making Dashboard

- Current Status: Healthy
- Key Metrics:
    - Yield: 4 tons/hectare
    - Profitability: ₹50,000/month
    - Water Usage: 1000 liters/day
- Action Items:
    - Apply fertilizer to Field A
    - Monitor pest activity in Field B

### Weather and Climate Data

- Current Weather: 28°C, Clear
- Weather Forecast: 7-day forecast with temperature, precipitation, and wind.
- Climate Trends: Historical data showing average temperatures and rainfall.

### Crop Management Data

- Crop Health: 95% healthy (based on satellite imagery)
- Pest and Disease Alerts: High risk of aphids in Field B
- Growth Stage: Flowering
- Treatment Recommendations: Apply organic pesticide to Field B

Market Data

- Current Market Prices:
    - Wheat: ₹20/kg
    - Rice: ₹25/kg
- Demand Forecasts: High demand for organic vegetables next month
- Sales Recommendations: Hold wheat for 2 more weeks for better prices

Resource Management

- Water Usage:
    - Current: 1000 liters/day
    - Recommended: 900 liters/day
- Soil Health: Good, pH 6.5
- Labor Management: 3 workers available, 5 needed next week

Financial Data

- Cost-Benefit Analysis:
    - Organic Fertilizer: Cost ₹5,000, Benefit ₹10,000
- Profitability Reports:
    - Wheat: ₹30,000 profit
    - Rice: ₹20,000 profit
- Investment Opportunities: Invest in drip irrigation system for ₹50,000

Scenario Planning Tools

- What-If Scenarios:
    - Scenario 1: Switch to organic farming
    - Scenario 2: Invest in new tractor
- Risk Assessment:
    - Organic farming: Moderate risk
    - New tractor: Low risk
- Outcome Predictions:
    - Organic farming: 20% increase in profits
    - New tractor: 10% increase in efficiency

Community and Expert Advice

- Community Forums:
    - Topic: Best practices for pest control
- Expert Consultations:
    - Schedule a session with an agronomist
- Best Practices:
    - Article: Sustainable irrigation methods

Decision Support Tools

- Decision Matrix:
    - Criteria: Cost, Benefit, Risk
- Priority List:
    2. Apply organic pesticide
    3. Schedule irrigation system maintenance
- Alerts and Notifications:
    - Pest alert: High risk of aphids in Field B