

## Problem Statements

### 1. Bridging Natural Farmers and Conscious Consumers

**Problem:** Farmers practicing natural farming struggle to find reliable markets, while consumers cannot easily verify the authenticity of natural farming products.

**Example Idea:** Develop a transparent natural farming marketplace platform:

- **Farmer Verification:** Create a system to authenticate and track natural farming practices, providing farmers with a digital certification.
- **Consumer Traceability:** Implement a QR code system allowing consumers to trace product origin, farming methods, and certification details in real-time.
- **Direct Market Connection:** Build a digital marketplace connecting verified natural farmers directly with consumers, reducing intermediary costs and ensuring fair pricing.

### 2. Empowering Women: Technology for Inclusion and Safety

**Problem:** Women face systemic barriers in financial literacy, skill development, and personal safety, which limit their economic and personal opportunities.

**Example Idea:** Develop a comprehensive women's empowerment platform:

- **Financial Literacy:** Create an interactive mobile app with localized financial education modules, micro-learning tracks, and personalized budgeting tools tailored to women's economic challenges.
- **Skill Development:** Design an AI-powered skills matching and training platform that connects women with relevant upskilling opportunities, mentorship programs, and job market insights.
- **Personal Safety:** Implement a real-time safety network with emergency response features, location sharing, and community support mechanisms integrated with local law enforcement and support services.

### 3. Carbon Footprint Tracker

**Problem:** Individuals and organizations lack comprehensive tools to accurately measure, understand, and reduce their carbon emissions.

**Example Idea:** Develop an integrated carbon footprint tracking ecosystem:

- **IoT Integration:** Create a multi-device platform that collects real-time emissions data from smart home devices, vehicles, appliances, and personal electronics.
- **Personalized Emissions Reporting:** Generate detailed, user-friendly visualizations of carbon impact with actionable recommendations for reducing individual and organizational carbon footprints.
- **Sustainability Incentives:** Design a reward system that gamifies carbon reduction, offering credits, challenges, and community recognition for achieving emissions targets.

## Guidelines for preparing 'Idea Document'

The purpose of this documentation is to evaluate your thinking ability, creativity, and understanding of the real-world problem you have chosen. Please ensure that your submission is clear, concise, and well-structured.

Use the following points as a guide:

### 1) Team Name and Member Details

- Team Name: A creative and unique name representing your team.
- Member Details: List the name, role, and skills of each team member (e.g. developer, designer, project manager).

### 2) Problem Statement

- Chosen Problem: Clearly state the problem statement you are addressing.
- Problem Analysis: Briefly describe the real-world context and its significance.
- Target Audience: Identify the primary users or beneficiaries of your solution.

### 3) Solution Overview

- Brief Explanation: Summarize your solution and how it addresses the problem.
- Approach: Describe your methodology and how it solves specific pain points.
- Uniqueness: Explain what makes your solution distinct from existing approaches.

### 4) Frameworks/Technologies

- Tech Stack: List the frameworks, libraries, and technologies you plan to use.
- Reasoning: Explain your choices (e.g., scalability, ease of use, cost-effectiveness).
- Assumptions & Constraints: Highlight key assumptions and anticipated challenges.

### 5) Feasibility and Implementation

- Implementation Ease: Discuss development and deployment feasibility.
- Effectiveness: Describe how well your solution addresses the problem.

## 6) UI/UX Mockup

- Screens Overview: Include wireframes or mockups showcasing the interface.
- User Flow: Explain the user journey and key interactions.
- Accessibility Considerations: Highlight design decisions for broader accessibility.

## 7) Business Scope and Use Case

- Use Case Scenarios: Provide real-world examples of your solution in action.
- Market Need: Explain the demand for your solution.
- Revenue Model (Optional): Suggest monetization strategies if applicable.

## 8) System Design and Architecture

- Technologies Overview: Describe key technologies and tools.
- Design Patterns: Mention design patterns used (e.g., MVC, microservices).
- Functional Flow: Include diagrams like flowcharts or system architecture.

## 9) Coding Approach

- Development Strategy: Outline your coding methodology (e.g., Agile, modular design).
- Coding Standards: Specify best practices like code reviews or testing.

## 10) Additional Supporting Documents (Optional)

- Market Research: Provide supporting data or research.
- Competitor Analysis: Compare your solution with existing ones.
- References: Include links or references used.

## 11) Presentation (Optional)

- Summary Slides: Prepare 5–7 slides covering the problem, solution, tech stack, UI/UX, and implementation strategy.
- Pitch Focus: Ensure your presentation highlights key aspects effectively.

## General Tips:

- - Clarity & Precision: Use concise language and visuals for clear communication.
- - Proofread: Avoid spelling and grammar errors.
- - Originality: Focus on unique, impactful ideas that address real-world challenges.