# Dairy Direct – Stage 2 Project Charter

Simple English version of Stage 2: project purpose, objectives, stakeholders, scope, risks, and high-level plan.

## 0) Project Objectives

**Purpose**
Build a simple web platform that connects at least one local farm with consumers, helps the farm organize products and daily orders, and reduces waste.

**SMART Objectives**
- Deliver a working MVP for one sample farm before the end of the semester, including farm registration, product management, and receiving orders.
- Add a farm dashboard with three clear metrics: total orders, top-selling products, and daily capacity usage.
- Implement a full demo flow for three test users (sign up → browse products → place order → update order status).

## 1) Stakeholders and Team Roles

**Stakeholders**
Internal: project team members; instructors/mentors. External: local farm owners; end consumers.

| Type | Stakeholder | Role (short) |
|------|-------------|--------------|
| Internal | Project team | Plan, design, build, and test the MVP. |
| Internal | Instructors / mentors | Provide guidance, feedback, and evaluation. |
| External | Local farm owners | Potential real users who manage products and orders. |
| External | End consumers | Potential real users who order products and track orders. |

**Team Roles**

| Role | Main Tasks |
|------|-----------|
| Project Coordinator / PM | Organize meetings, split tasks, and track time and progress. |
| Backend Developer | Design the database and APIs, and implement product/order logic. |
| Frontend Developer | Build the farm dashboard and consumer shop and connect to the APIs. |
| Data & Documentation Owner | Prepare simple sample data and maintain project documents and reports. |

## 2) Project Scope

**In-Scope (MVP)**
- One web app with two roles: Farm and Consumer.
- Simple sign-up and login for farms and users.
- Farm side: add, edit, and delete products with price and quantity; set daily capacity; view orders and change their status; view a basic analytics section.
- Consumer side: create an account; browse farm products; create new orders with quantity and simple delivery/pick-up choice; view order history and status.
- Use one shared database for users, products, and orders.

**Out-of-Scope (MVP)**
- Real payment gateway integration (cards, Apple Pay, STC Pay, etc.).
- Complex delivery features or live map tracking.
- Large multi-farm marketplace with advanced search and recommendations.
- Native mobile apps (the project is web-only).
- Advanced AI-based analytics; can be added later as "Future Work".

## 3) Risks and Mitigation

| Risk | Short Description | Mitigation Plan |
|------|-------------------|-----------------|

| Scope creep | Team keeps adding features that go beyond the MVP | Stick to this charter and move extra ideas to a Future Work... |
| Limited time | Project competes with other courses, assignments, and exams | Break the work into small weekly tasks and start core features... |
| Technical challenges | Team has limited experience connecting frontend and backend | Use simple examples, search for tutorials, and pair-program... |

## 4) High-Level Plan

- Weeks 1–2 – Stage 1: Form the team, choose Dairy Direct, and document the idea.
- Weeks 3–4 – Stage 2: Create this charter: purpose, objectives, stakeholders, scope, risks, and plan.
- Weeks 5–6 – Stage 3: Draw the ERD, define main APIs, and design the frontend page structure.
- Weeks 7–10 – Stage 4: Implement the system (auth, products, orders, analytics) and test internally.
- Weeks 11–12 – Stage 5: Fix bugs, polish the UI, and prepare the final live demo and report.

## 5) URLs (Sharing)

Fill these links when GitHub repositories and final files are ready:
- Project charter file (PDF / Google Doc):
- Frontend repository:
- Backend repository:
- Any extra documentation (Notion / other):