

# WolfCafe

## CSE 510 Software Engineering: Project 1c1

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**Question 1:** The new use cases:

**Response:**

### 1. Place Customer Order

**Preconditions:** Customer logged in; menu available.

**Main Flow:**

- (a) Customer browses menu.
- (b) Customer selects items and adds them to cart.
- (c) Customer proceeds to checkout.

**Subflows:**

S1: Apply coupon code.

S2: Choose delivery address.

**Alternative Flows:**

A1: Item unavailable – System shows message and suggests alternatives.

A2: Cart empty – Checkout is blocked.

### 2. Process Payment

**Preconditions:** Order created; total amount calculated.

**Main Flow:**

- (a) Customer selects payment method.
- (b) System redirects to payment processor.
- (c) Payment confirmed.

**Subflows:**

S1: Save card for future use.

S2: Apply wallet/discount.

**Alternative Flows:**

A1: Payment failed – Retry or switch method.

A2: Session timeout – Restart payment.

### 3. Track Order Status

**Preconditions:** Order placed successfully.

**Main Flow:**

- (a) System updates order stages (Received → Preparing → Out for Delivery → Delivered).
- (b) Customer views order status.

**Subflows:**

S1: Real-time notifications sent via app.

**Alternative Flows:**

A1: System delay – Fallback to SMS/email updates.

**4. Admin Dashboard (Basic Reports)**

**Preconditions:** Admin logged in.

**Main Flow:**

- (a) Admin opens dashboard.
- (b) System displays orders, revenue, cancellations.

**Subflows:**

S1: Filter by date.

S2: Export summary (CSV/PDF).

**Alternative Flows:**

A1: No data available – Dashboard shows placeholder.

**5. Delivery Partner Assigned Orders**

**Preconditions:** Delivery partner registered; admin assigned orders.

**Main Flow:**

- (a) Partner logs in.
- (b) System displays assigned orders.
- (c) Partner accepts and delivers.

**Subflows:**

S1: Navigation link to customer address.

**Alternative Flows:**

A1: Partner rejects order – System reassigns.

A2: No available orders – System shows empty state.

**6. Customer Feedback**

**Preconditions:** Order completed.

**Main Flow:**

- (a) System prompts customer for rating/feedback.
- (b) Customer submits.

**Subflows:**

S1: Optional comment in text field.

**Alternative Flows:**

A1: Customer skips feedback – System closes prompt.

## 7. Authentication & Security

**Preconditions:** User registered or wants to sign up.

**Main Flow:**

- (a) User enters credentials.
- (b) System validates and grants access.

**Subflows:**

S1: Reset password via email.

**Alternative Flows:**

A1: Invalid login – System shows error.

A2: Multiple failures – Temporary lockout.

## 8. Pilot Revenue Model (Delivery Fee/Commission)

**Preconditions:** Customer has order in cart.

**Main Flow:**

- (a) System calculates total = Item Cost + Delivery Fee.
- (b) System displays breakdown before payment.

**Subflows:**

S1: Free delivery on coupons.

**Alternative Flows:**

A1: Delivery fee service unavailable – System defaults to flat rate.

## 9. Supplier Linking (Manual)

**Preconditions:** Supplier account exists.

**Main Flow:**

- (a) Admin selects supplier.
- (b) Admin links supplier to ingredient category.

**Subflows:**

S1: Update supplier contact info.

**Alternative Flows:**

A1: Supplier not found – Admin enters new supplier manually.

## 10. Food Safety/Compliance Hooks

**Preconditions:** Admin logged in; compliance tracking not fully implemented.

**Main Flow:**

- (a) Admin tags food items with safety labels (e.g., “Veg,” “Expiry Date”).
- (b) System stores compliance logs.

**Subflows:**

S1: Export compliance log to regulators.

### **Alternative Flows:**

A1: Missing data – System prompts admin to complete record.

**Question 2:** How did you decide what NOT to do?

**Response:** The process of narrowing our use cases to an MVP was guided by three key principles: core value, stakeholder prioritization, and complexity vs effort.

- First, we focused on delivering the core value proposition: enabling customers to place orders, process payments, track order status, and allow staff/admin to manage fulfillment efficiently. Features that did not directly contribute to this core flow—such as full supplier integration, advanced compliance reporting, loyalty programs, and AI-driven recommendations—were deferred.
- Second, we considered stakeholder prioritization. The MVP targets high-impact stakeholders: customers, admin staff, delivery partners, and investors. Features benefiting less immediate stakeholders (e.g., regulators, ingredient suppliers) were postponed to minimize development overhead while still documenting future needs.
- Finally, we evaluated complexity vs effort. Features that would require extensive development, integration, or posed high risk were excluded from the MVP. This ensured a fast, reliable launch and allowed early feedback to guide future iterations. Overall, the MVP was designed to be lean yet functional, focusing on delivering measurable value while deferring non-essential features to later phases.

**Question 3:** What negative impacts or disappointments could this MVP have for stakeholders?

**Response:** Despite its focus, the MVP has potential limitations:

- Customers: Limited personalization, no loyalty program, and fewer payment options may disappoint users expecting a full-featured experience.
- Admin Staff: Basic dashboards and reporting may require manual tracking for detailed analytics, adding to operational workload.
- Investors: Simplified features and reporting may appear underwhelming, giving a limited view of growth potential.
- Delivery Partners: Lack of advanced scheduling or routing optimization could lead to minor inefficiencies.
- Payment Processors: Only one payment method limits transaction diversity, restricting volume demonstration.
- IT/System Admin: Basic security and monitoring may not fully satisfy risk management expectations.
- Food Safety Regulators & Ingredient Suppliers: Full automation and compliance reporting are deferred, requiring manual effort.

These limitations were acknowledged as acceptable trade-offs for achieving a rapid, functional MVP while maintaining stakeholder engagement for future improvements.

**Question 4:** What changes were made to the MVP to appease stakeholders?

**Response:** To mitigate potential stakeholder dissatisfaction, the following changes were made:

- Customers: Added order tracking and feedback submission to enhance trust and engagement.

- Admin Staff: Implemented a basic dashboard summarizing orders, revenue, and cancellations, reducing manual effort.
- Investors: Included pilot revenue model and basic reporting to demonstrate monetization and operational activity.
- Delivery Partners: Enabled a simple order assignment view, ensuring participation in fulfillment despite deferred optimizations.
- Payment Processors: Integrated at least one reliable payment method, enabling successful transactions.
- IT/System Admin: Ensured basic authentication and session management, providing minimal security.
- Regulators & Suppliers: Added minimal compliance hooks and manual supplier linking, signaling awareness and preparing for future integration.

These adjustments ensured the MVP delivers core value, satisfies high-priority stakeholders, and sets the stage for iterative enhancement in subsequent releases.

**Question 5:** Prompt history:

**Response:**

1. <https://chatgpt.com/share/68c74960-eb2c-8005-9953-b85794913eda>
2. [https://grok.com/share/bGVnYWN5\\_3065c445-6b07-4bff-8356-fde2de287bbf](https://grok.com/share/bGVnYWN5_3065c445-6b07-4bff-8356-fde2de287bbf)
3. <https://www.perplexity.ai/search/i-need-to-create-an-applicatio-25JKI03aQq0t5gnvmUbS7Q>
4. [https://docs.google.com/document/d/11\\_uiLhnhy\\_UdUloVPtvrHzWIc-sS0EzI/edit?usp=drive\\_link&ouid=111013131873808003908&rtpof=true&sd=true](https://docs.google.com/document/d/11_uiLhnhy_UdUloVPtvrHzWIc-sS0EzI/edit?usp=drive_link&ouid=111013131873808003908&rtpof=true&sd=true)