CSC 510 SE Proj1c1

Section 001 - Group 29

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TiffinTrail — Smarter routes, Warmer meals.

New Use Cases for Food Delivery App

1) Simplified User Registration and Login

a) Preconditions:

- The user has installed the app.
- The user has internet access.

b) Main Flow:

- 1. The user opens the app and selects "Sign Up".
- 2. System prompts for essential details only (phone number, name).
- 3. The system sends an SMS verification code.
- 4. The user enters a verification code.
- 5. Account created with minimal profile.

c) Subflows:

- Optional: User can add delivery address immediately.
- The system offers location services for address detection.

d) Alternative Flows:

- Phone number already registered: System prompts to log in instead.
- SMS verification fails: System allows retry after 30 seconds.
- Network issues: System saves partial data and resumes when connection is restored.

2) Basic Restaurant Discovery

a) Preconditions:

- User logged in.
- Location services enabled OR address manually entered.

b) Main Flow:

- 1. The system displays a list of nearby restaurants.
- 2. The user sees basic info: name, rating, delivery time, delivery fee.
- 3. Users can scroll through available options.
- 4. The user taps the restaurant to view the menu.

c) Subflows:

- Users can search by restaurant name only.
- Users can filter by cuisine type (5-6 major categories).
- The system shows "Popular" and "Nearby" sections.

d) Alternative Flows:

- No restaurants available in the area: System suggests expanding delivery radius.
- Location detection fails: System prompts for manual address entry.

Slow loading: System shows cached results with "updating" indicator.

3) Streamlined Menu Browsing and Cart Management

a) Preconditions:

- Restaurant selected.
- User logged in.

b) Main Flow:

- 1. User views simplified menu with items, prices, and basic descriptions.
- 2. The user selects item and quantity.
- 3. The system adds items to cart with running total displayed.
- 4. Users can continue browsing or proceed to checkout.

c) Subflows:

- Users can modify the quantity directly from the cart icon.
- System shows cart total in header at all times.
- Users can add simple notes to items ("no onions").

d) Alternative Flows:

- Item unavailable: System shows "Currently unavailable" and grays out item.
- Restaurant closes during browsing: System notifies user and saves cart for later.
- Network issues: System queues changes and syncs when reconnected.

4) Essential Order Placement

a) Preconditions:

- At least 1 Item in cart.
- The user has a delivery address.
- Payment method available.

b) Main Flow:

- 1. The user proceeds to checkout from the cart.
- 2. System shows order summary with delivery address.
- 3. User confirms address or selects from saved addresses (max 3).
- 4. The user selects the payment method (card or cash).
- 5. Users place orders with a single "Place Order" button.
- 6. The system generates an order ID and shows confirmation.

c) Subflows:

- Users can add delivery instructions (one text field, 100 char limit).
- The system calculates and displays total with taxes and delivery fee.
- Users can apply one promo code if available.
- Optional -> Users add driver tip.

d) Alternative Flows:

- Payment fails: System offers to retry or change payment method.
- Restaurant rejects order: System sends push notification and processes refund.
- Address issues: System validates address and suggests corrections.

5) Basic Payment Processing

a) Preconditions:

- User at checkout.
- Valid payment method available.

b) Main Flow:

- 1. The user selects the payment method (saved card, new card, or cash).
- 2. For card payments, system processes through payment gateway.
- 3. The system shows a processing indicator.
- 4. Payment confirmation displayed.
- 5. Digital receipt sent via email/SMS.

c) Subflows:

- New card: User enters card details with basic validation.
- Cash payment: System marks order as "Pay on delivery".
- Saved cards: System shows last 4 digits for selection.

d) Alternative Flows:

- Payment gateway timeout: System retries automatically once, then prompts user.
- Card declined: System suggests trying different card or cash payment.
- Cash orders: Driver collects payment and confirms in app.

6) Real-time Order Tracking

a) Preconditions:

- Order successfully placed.
- The user has an active internet connection.

b) Main Flow:

- 1. The user receives order confirmation with estimated delivery time.
- 2. The system shows three simple states: "Preparing", "On the way", "Delivered".
- 3. Users can view order details and contact information.
- 4. The system sends push notifications at each status change.
- 5. When "On the way", the system shows the driver's name and phone number.

c) Subflows:

- Users can call drivers directly through a masked number.
- The system shows live estimated delivery time updates.
- The user receives notification when the driver is nearby (2-3 minutes out).

d) Alternative Flows:

- Order significantly delayed: System automatically sends update with new estimate.
- Driver unavailable: System assigns new driver and notifies user.
- Location access denied: System shows estimated time without live tracking.

7) Driver Order Management

a) Preconditions:

- Driver logged into driver app.
- The driver has a valid vehicle and documentation.

b) Main Flow:

- 1. The system shows available orders in the driver's area.
- 2. The driver sees the pickup location, delivery location, and estimated earnings.
- 3. The driver accepts orders with a single tap.
- 4. The system provides pickup instructions and timer.
- 5. The driver marks "Picked up" and gets delivery navigation.
- 6. Driver marks "Delivered" to complete order.

c) Subflows:

- The driver can see customer delivery instructions before accepting.
- The system provides in-app navigation or opens preferred maps apps.
- Drivers can contact customers through a masked number.

d) Alternative Flows:

- Driver needs to cancel: System reassigns order and notifies customer.
- Customer unavailable: Driver can mark "Customer unavailable" after waiting period.
- Order issues at restaurants: Drivers can report problems to support.

8) Simple Review System

a) Preconditions:

- Order completed and delivered.
- Within 7 days of delivery.

b) Main Flow:

- 1. The system prompts users to rate order via push notification.
- 2. User rates restaurant (1-5 stars) and delivery (1-5 stars).
- 3. Users can optionally write a brief text review (200 character limit).
- 4. The system saves reviews and updates the restaurant's average rating.
- 5. The user sees confirmation that review was submitted.

c) Subflows:

- Users can rate without writing a text review.
- The system shows review guidelines (be respectful, focus on experience).
- Users can edit reviews within 24 hours.

d) Alternative Flows:

- User skips rating: System sends one reminder after 24 hours, then stops.
- Inappropriate content detected: System holds review for manual approval.
- User submits review after 7 days: System accepts but marks as "late review".

9) Re-Order & Favorites

a) Preconditions:

• The user has completed a past order or saved a favorite.

b) Main Flow:

- 1. The user opens "Order History" or "Favorites".
- 2. The user selects past orders or favorite restaurants.
- 3. The user taps "Re-Order".
- 4. The system adds items to cart.
- 5. User reviews and confirms.

c) Subflows:

User edits cart before checkout.

d) Alternative Flows:

- Item unavailable: System removes it from cart.
- Restaurant closed: System prevents re-order.

10) Order Cancellation by Customer

a) Preconditions:

• The user has an active order.

b) Main Flow:

- 1. The user navigates to "My Orders."
- 2. User selects "Cancel Order."
- 3. The system checks cancellation eligibility (status, time). If eligible, order canceled and refund processed.

c) Subflows:

- Refund processed to original payment method.
- Cancellation fee applied if order already prepared.

d) Alternative Flows:

- Cancellation not allowed → System notifies user (e.g., "Order already out for delivery").
- Refund failure → System logs issue and notifies support.

11) Basic Customer Support

a) Preconditions:

- The user has placed at least one order.
- Issue occurred with recent order.

b) Main Flow:

- 1. The user navigates to "Help" from menu or order details.
- 2. The system shows common issues as buttons (Wrong order, Late delivery, Missing items).
- 3. User selects issue type.
- 4. The system shows relevant help content and actions.
- 5. If unresolved, users can submit a support ticket with order details pre-filled.

c) Subflows:

- Common issues trigger automatic responses (refund, reorder, etc.).
- Users can attach one photo to support the ticket.
- The system provides a ticket number and estimated response time.

d) Alternative Flows:

- For urgent issues: System provides phone number for immediate support.
- Auto-resolvable issues: System processes refund/credit automatically.
- Support unavailable: System gueues ticket and sends confirmation email.

12) User Profile and Settings

a) Preconditions:

- User account created.
- User logged in.

b) Main Flow:

- 1. The user accesses the profile from the main menu.
- 2. The system displays basic account info (name, phone, email).
- 3. Users can manage saved addresses (add, edit, delete max 3).
- 4. Users can manage payment methods (add, remove cards).
- 5. Users can view basic order history (last 10 orders).
- 6. Users can adjust notification preferences (order updates, promotions).

c) Subflows:

- Users can change passwords through email verification.
- The system allows toggling location services.
- Users can log out with a confirmation prompt.

d) Alternative Flows:

- Email change requires verification of both old and new email.
- Address validation fails: System suggests corrections or allows override.
- Payment method issues: System removes invalid cards and notifies users.

13) Restaurant Favorites and Quick Access

a) Preconditions:

- Users have browsed restaurants.
- User logged in.

b) Main Flow:

- 1. User views restaurant details page.
- 2. The user taps the heart icon to add restaurants to favorites.
- 3. The system saves restaurants to the user's favorites list (max 10).
- 4. Users can access favorites from home screen quick access.
- 5. Favorites show current availability and estimated delivery time.
- 6. Users can tap to go directly to the restaurant menu.

c) Subflows:

- The system shows notification badges for new menu items at favorite restaurants.
- Users can remove restaurants from favorities by tapping their heart again.
- Favorites are ordered by most recently ordered from.

d) Alternative Flows:

- Favorites list full: System prompts to remove old favorites before adding new ones.
- Favorite restaurant permanently closed: System removes from list and notifies user.
- Favorite restaurant outside delivery area: System shows "Not available at your location".