

Laboratory 2

- **Problem 1**

1. Tuna

"Traditional gifting processes suffer from **ambiguity** and **inconsistency** in guest coordination, leading to **gift redundancy** (duplicates) and resource waste. Current methods lack a **centralized functional system** for **crowdsourced pooling** of high-value items and secure cash management. Furthermore, event memories remain **decentralized**, creating a need for a unified platform that integrates gift tracking with a shared media gallery."

2. Bogdan

1. **Event Organizer (Celebrant)**: Creates and manages the wishlist, selects items from retailers, and receives the collected funds or physical gifts
2. **Guest (Contributor)**: Browses the wishlist, contributes money to "pool" for a gift, purchases items directly, or leaves a cash gift
3. **Payment Gateway (Stripe)**: An external system actor that processes credit card transactions and handles the secure disbursement of funds
4. **Affiliate Provider (Amazon/eMag)**: An external system actor providing product data, availability status, and processing the final external purchase.

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3. Adrian

1) Event Organizer (The celebrant)

UC1: Create Event and Wishlist

Description: The organizer creates a new event (e.g., wedding, birthday) and initializes a wishlist associated with it, including title, date, description, and contribution rules (e.g., contribution deadline).
Exceptions: Invalid input data; event already exists; insufficient permissions.

UC2: Add Item from Affiliate Retailer to Wishlist

Description: The organizer searches and selects products from affiliate providers (Amazon, eMag, etc.) and adds them to the wishlist, including price, product link, availability, and quantity.
Exceptions: Product unavailable; retailer API not responding; outdated price information.

UC3: Manage Wishlist (Edit/Delete/Reorder Items)

Description: The organizer edits the wishlist by modifying quantities, removing products, updating descriptions, or enabling/disabling pooling for specific items.
Exceptions: Item locked because it is already purchased or partially funded; modification conflict.

UC4: Monitor Gift Status and Prevent Duplicates

Description: The organizer views real-time updates of item status (available, partially funded, fully funded, purchased) to prevent duplicate gifts.
Exceptions: Synchronization delay; unconfirmed purchase status from retailer.

UC5: Receive Funds or Confirm Gift Delivery

Description: The organizer receives collected funds (from pooling or cash gifts) or confirms receipt of physical gifts purchased through the platform.
Exceptions: Failed transaction; blocked funds; invalid bank account details.

UC6: Manage Event Photo/Video Gallery

Description: The organizer activates and moderates the event gallery, approving or deleting uploaded photos and videos.
Exceptions: File too large; unsupported format; unauthorized access.

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2) Guest (Contributor)

UC7: Access Event and Browse Wishlist

Description: The guest accesses the event page via link or code and views the wishlist, including price, availability, and purchase/funding status of items.

Exceptions: Event not found; restricted access; private wishlist.

UC8: Contribute to a Gift (Gift Pooling)

Description: The guest selects an expensive item and contributes a partial amount toward its total cost.

Exceptions: Item already fully funded; invalid contribution amount; payment failure.

UC9: Purchase Item Directly from Wishlist

Description: The guest selects an item and completes the purchase through the integrated system. The platform marks the item as “purchased” to prevent duplicates.

Exceptions: Item purchased by another guest simultaneously; out of stock; retailer error; payment declined.

UC10: Send Cash Gift

Description: The guest sends a monetary gift directly to the organizer using a credit card through the secure payment system.

Exceptions: Payment failure; amount below minimum threshold; transaction flagged as suspicious.

UC11: Upload Event Photos/Videos

Description: The guest uploads photos or videos from the event to share with other participants.

Exceptions: Unsupported file format; file too large; upload interrupted; content blocked.

UC12: View Contribution History and Payment Confirmation

Description: The guest views a history of their contributions and receives confirmation of successful payments.

Exceptions: Data unavailable; loading error.

3) Payment Gateway (Stripe) – External Actor

UC13: Process Credit Card Payment

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Description: Stripe processes payments for pooling, direct purchases, or cash gifts, performs fraud checks, and returns the transaction status (success/failure).

Exceptions: Invalid card details; insufficient funds; 3D Secure authentication failure; declined transaction.

UC14: Disburse Funds to Organizer

Description: Stripe securely transfers collected funds to the organizer according to event rules.

Exceptions: Invalid payout details; transfer failure; temporary hold; chargeback.

4) Affiliate Provider (Amazon/eMag) – External Actor

UC15: Provide Product Data and Availability

Description: The affiliate provider supplies product details (name, price, images, stock status) and updates availability in real time.

Exceptions: API unavailable; rate limit exceeded; product discontinued; price changed.

UC16: Confirm External Purchase

Description: The affiliate provider confirms the completion of an external purchase and returns order confirmation data, allowing the system to mark the item as purchased.

Exceptions: Order canceled; out of stock; delayed confirmation; integration error.

UC17: User Login Description: The user (Event Organizer or Guest) enters their credentials (email and password) or uses a third-party authentication service (e.g., Google, Facebook) to access their account and personalized features on the platform. **Exceptions:** Invalid email or password; account locked due to multiple failed login attempts; third-party authentication service unavailable; unverified email address.

UC18: User Logout Description: The authenticated user selects the logout option to securely end their active session on the platform, preventing unauthorized access to their account from that device.

Exceptions: Session already expired; network error delaying the session termination confirmation.

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