

# **Lecture Topic Task: #312 Strategic Design Document**

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## **1. Domain Overview**

Hand-Me-Down is a campus-focused clothing marketplace where users list, browse, favorite, and purchase second-hand clothing items. The platform emphasizes community, sustainability, and an accessible, cozy user experience.

## **2. Subdomain Classification**

It divides a large domain into meaningful subdomains based on the business importance and technical complexity

### **Core Subdomain**

- Listing & Discovery
  - Upload clothing items with pictures, sizes, category and condition
  - Search & filter by type, size, conditions, gender
- Trust & Community Experience
  - UI friendly, listing cards, “borrow from a friend or family” type of feeling
  - Communicating sustainability and re-use value
  - UX decisions focused on making users feel safe and connected

### **Supporting Subdomains**

- Favorites & Saved Items
  - User can save items they like
  - Help with users' retention and decision making
- User Profiles
  - Name, profile picture, basic preferences
  - Help personalize discovery
- Messaging / Contact Seller
  - Not a full chat but a simple “contact the seller” chat
  - Help make the purchase possible but is not the differentiator

### **Generic Subdomains**

- Authentication
  - Sign-up, login, passwords, isLoggedIn
  - Could be outsourced

- Payments
  - Stripe or any form of payment in card
  - Commodity functionality
- Database Layer
  - Supabase/ SQL table definition
- Logging / Monitoring
  - not visible to users(internal)

Why generic?

These are universal across systems and add no special domain insight

### **3. Bounded Contexts**

#### A. Listings Context (Core)

- Purpose Manage item lifecycle
- Model: Listing, Photo, Category, Condition
- Capability:
  - Create listing
  - Update listing
  - Search index model

#### B. Discovery Context (Core)

- Purpose: Help users find what they are looking for
- Model: SearchQuery, Filter, Recommendation
- Capabilities:
  - Query listings
  - Recommendations

#### C. User Profile Context (Supporting)

- Purpose: Manage user identity (not auth)
- Model: UserProfile, Preferences
- Capabilities:

- Updated profile
- Preferred sizes

#### D. Favorites Context (Supporting)

-Purpose: Lightweight bookmarking

- Model: FavoriteList, FavoriteItem
- Capabilities:

- Add/remove favorite
- Show saved items

#### E. Communication Context (Supporting)

-Purpose: Connect buyer and seller

- Model: Message, Conversation
- Capabilities:

-Initiate contact

-Notify seller

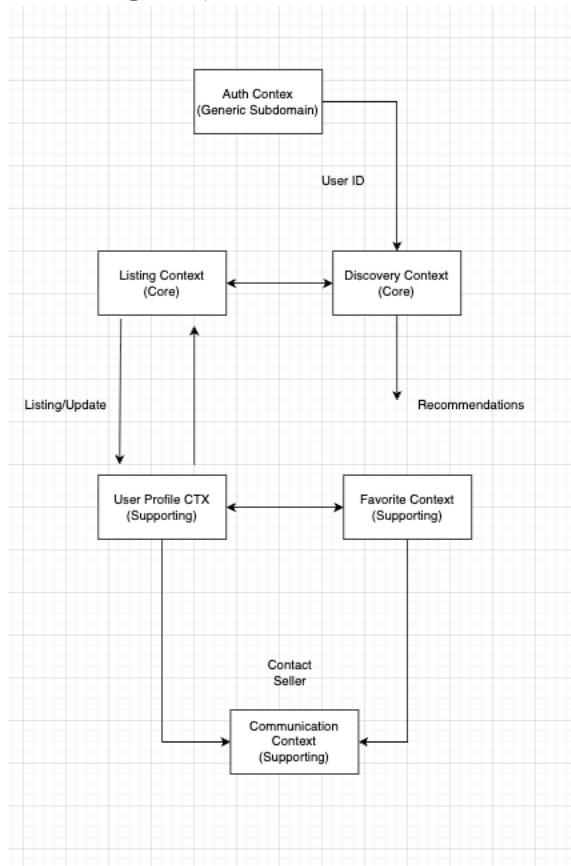
#### F. Authentication Context (Generic)

-Purpose: Identity and session management

- Model: UserAccount, Session
- Capabilities:

- Login
- Sign-Up
- Password reset

## 4. Context Map (ASCII Diagram)



## 5. Why this strategic work?

### A. Modularity

- Each context has separate responsibilities
- Prevents one giant database table

### B. Independence

- You can develop and test Listing without touching Favorites
- Discovery can evolve independently

## 6. Evaluation / Testing

- Modularity

- Each context has isolated responsibilities.

- Independence

- Modifying one context does not break others.

- Ubiquitous Language

- Terms maintain consistency within boundaries.