

Lecture Topic Task: #312 Strategic Design Document

Assignee: Daniella Melero Pereira

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

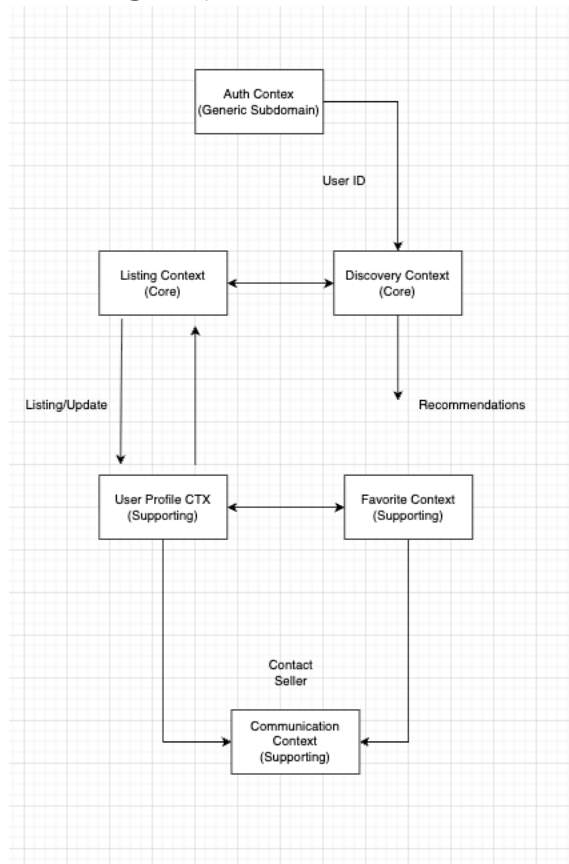
E. Communication Context (Supporting)

- 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.