202412087
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Role: Solution Architect

Requirement gathering

1. Requirements Gathered From M.Des Students

- They requested **easy login and signup pages** with simple form validation because they frequently use multiple platforms and prefer quick authentication.

- M.Des students wanted a **homepage highlighting categories and latest items**, as they often browse trending designs and products for inspiration.

- They emphasized that product listing pages must be **well-structured, minimal, and image-focused**, since visuals are crucial for evaluating creative products.

- They also wanted product details pages with **large images, clear descriptions, and easy navigation** to evaluate a product before buying.

- Students asked for a section for **service providers**, such as printers, illustrators, craft makers, or photographers, allowing them to view skills, experience, and contact information easily.

- The need for smooth navigation and consistent UI design came from their academic exposure to UX concepts.

2. Requirements Gathered From Stationery Shop Owners

- Shop owners mentioned they wanted a **simple way to list their items online**, such as notebooks, tools, paints, brushes, and art materials.

- They required a **product entry form** that allows adding name, price, description, and images without technical knowledge.

- Many shop owners wanted a **product list page** where they can easily check all uploaded items in a grid format.

- They said that customers frequently ask for item details and prices, so they needed a **product detail page** that displays images, descriptions, pricing clearly.

- To attract younger buyers (students), they requested that the UI be **clean, modern, and mobile-friendly**, since most shoppers use phones.

- Shop owners also asked for a **section where service providers can be listed**, like raisin art, tailor, etc.

- They emphasized the need for **fast-loading pages** due to limited technical skills and slow internet in some shops.

Schema Design – ArtyUs

1. Analysis (What we need)

- Users (buyers, vendors, admin)

- Products sold by vendors

- Orders placed by buyers

- Categories to organize products

- Addresses for shipping

- Order items for multi-item orders

2. Normalization Steps (Short)

0NF → Mixed data, repeated fields, arrays of products/orders.

1NF → Split into separate tables, atomic values only.

2NF → Remove partial dependency
(use single-column primary keys).

3NF → Remove transitive dependencies
(vendor → company table),
(address →separate table, product price snapshot moved to order_items).

3. Final 3NF Schema (Short Text Form)

- Users(id, email, password_hash, is_admin)
- Addresses(id, user_id, is_primary)
- Companies(id, user_id, verified)
- Categories(id, parent_id, slug)
- Products(id, company_id, category_id, img_url)
- Orders(id, user_id, address_id, total_amount, status)
- Order_Items(id, order_id, product_id, price_at_purchase)

PPT Creation

- Planned and organized the content for all slides

- Structured the flow for three PPTs

- Designed layouts and visual format for each slide

- Added headings, bullet points, and diagrams

- Ensured visual consistency across all slides

- Applied formatting for alignment, spacing, and colors

- Inserted icons and simple design elements

- Reviewed and finalized the complete presentation