

# Digital Solution for Enhancing the Egyptian Furniture Sector Connect-X

## 1) Database Schema

This part refers to the ER diagram you shared.

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### Tables & Descriptions:

**Database Name:** Furniture Sector Database

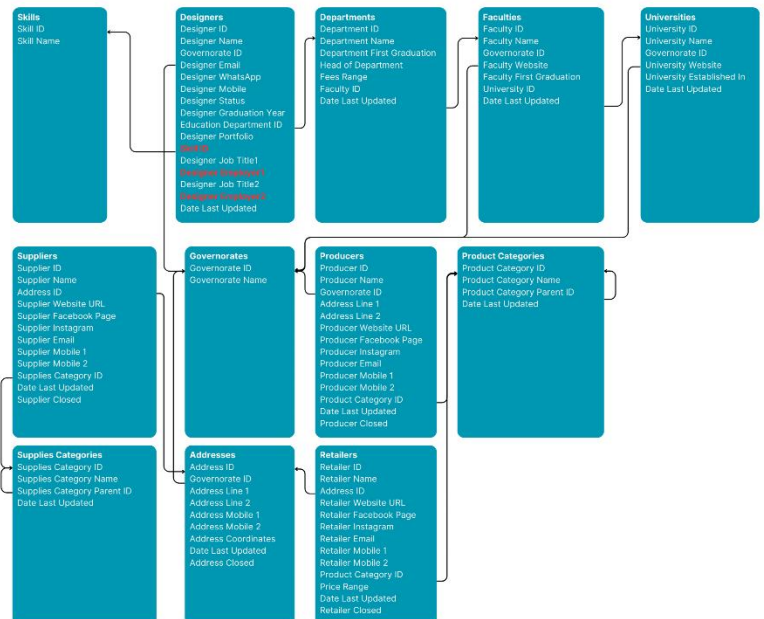
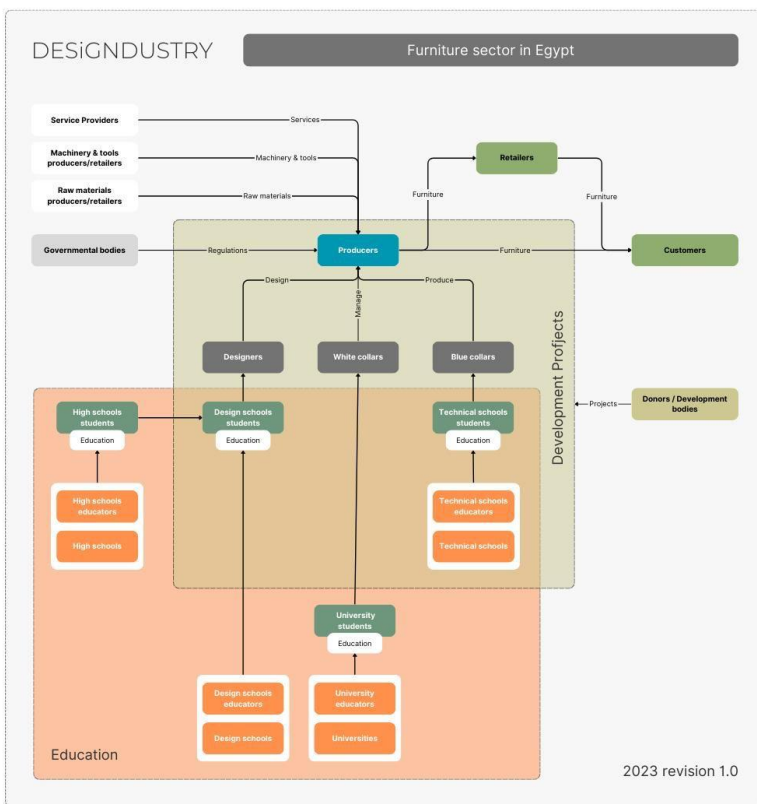
- **Skills**
  - Stores designer skills.
  - Fields: Skill ID, Skill Name
- **Designers**
  - Stores designer details.
  - Fields: Designer ID, Name, Governorate ID, Email, WhatsApp, Mobile, Status, Graduation Year, Education Department ID, Portfolio, Job Titles, Date Last Updated
- **Departments**
  - Stores university department details.
  - Fields: Department ID, Name, First Graduation Year, Head of Department, Fees Range, Faculty ID, Date Last Updated
- **Faculties**
  - Stores faculty details.

- Fields: Faculty ID, Name, Governorate ID, Website, First Graduation Year, University ID, Date Last Updated
- **Universities**
  - Stores university details.
  - Fields: University ID, Name, Governorate ID, Website, Established In, Date Last Updated
- **Suppliers**
  - Stores supplier details.
  - Fields: Supplier ID, Name, Address ID, Website, Social Media Links, Email, Mobile, Category ID, Date Last Updated, Closed Status
- **Supplies Categories**
  - Stores categories for supplies.
  - Fields: Category ID, Name, Parent Category ID, Date Last Updated
- **Governorates**
  - Stores regional information.
  - Fields: Governorate ID, Name
- **Addresses**
  - Stores address details.
  - Fields: Address ID, Governorate ID, Address Lines, Mobile, Coordinates, Date Last Updated, Closed Status
- **Producers**
  - Stores producer details.
  - Fields: Producer ID, Name, Governorate ID, Address, Website, Social Media, Email, Mobile, Product Category ID, Date Last Updated, Closed Status
- **Retailers**
  - Stores retailer details.

- Fields: Retailer ID, Name, Address ID, Website, Social Media, Email, Mobile, Product Category ID, Price Range, Date Last Updated, Closed Status

- **Product Categories**

- Stores product category hierarchy.
- Fields: Category ID, Name, Parent Category ID, Date Last Updated



## 2) User Flow Diagram

Diagram Title: **Social Media App User Story**

User Story:

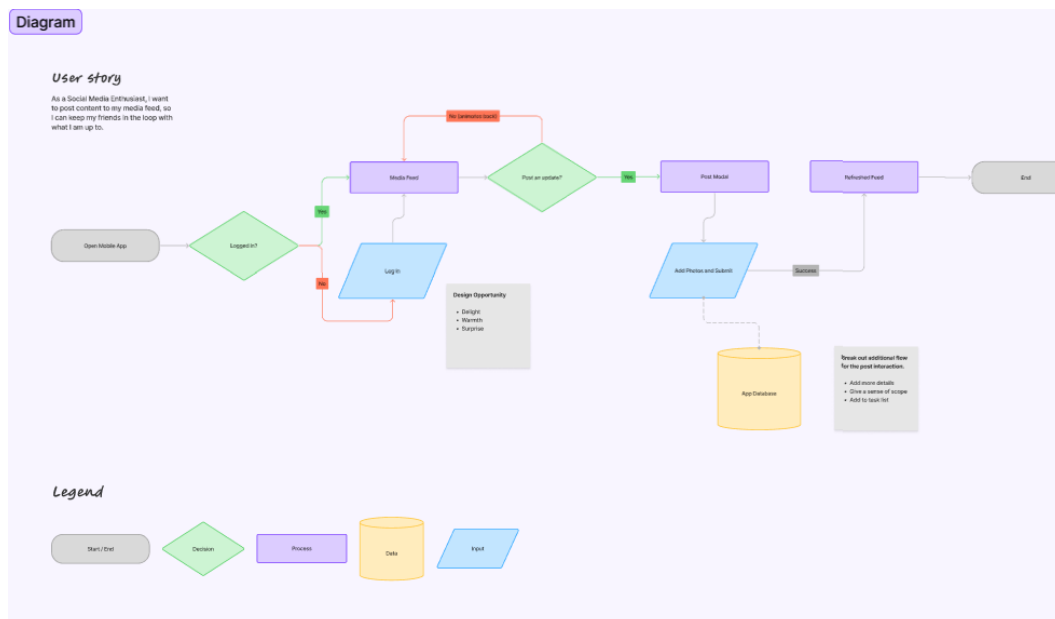
As a Social Media Enthusiast, I want to get content into my media feed, so I can keep my friends in the loop with what I am up to.

### Flow Steps:

1. Open mobile app
2. Check if user is logged in
  - If yes → Media Feed
  - If no → Login → then Media Feed
3. Post an update?
  - If no → Stay on feed
  - If yes → Post Modal → Add Photos and Submit → App Database → Refreshed Feed

Check the Diagram here:

<https://www.figma.com/board/KY633SouahRAenHD4yp7pl/solution-journey-map---flow-map?node-id=0-1&p=f>



### 3) Prototype

We designed a prototype that brings the digital system to life and tested several core components:

#### **Chatbot**

- A conversational assistant to help users navigate the platform, ask for information, or get guided support.
- Example: Users can ask about available designers, nearby retailers, or materials — the bot answers instantly.

#### **Dashboard**

- An interactive admin panel to visualize key metrics, track ecosystem data, and monitor activities in real time.
- Includes graphs, KPIs, and tables showing designer stats, supplier updates, retailer activities, and production flows.

#### **Slicers and Filters**

- Advanced slicers that allow filtering data dynamically across dashboards — e.g., by governorate, category, supplier type, or production status.

#### **User Interface (UI)**

- Simple, clean, and user-friendly screens for each stakeholder type (designer, producer, retailer, admin, customer).
- Wireframes designed to ensure smooth navigation and task completion.

#### **Database Integration**

- A backend structure that connects all data sources and ensures consistency across the app — using the ER schema we developed.

#### **User Flow Testing**

- We created and tested a typical user journey, from login to content sharing, including decision points, actions, and feedback loops.

Check the Prototype here:

<https://www.figma.com/proto/18EbgFEPAZqsThRAC25iFB/Furniture-Industry?node-id=56-322&p=f&t=rZMlpk1Tn2l2sZpN-1&scaling=scale-down&content-scaling=fixed&page-id=0%3A1&starting-point-node-id=54%3A575&show-prototype-sidebar=1>

