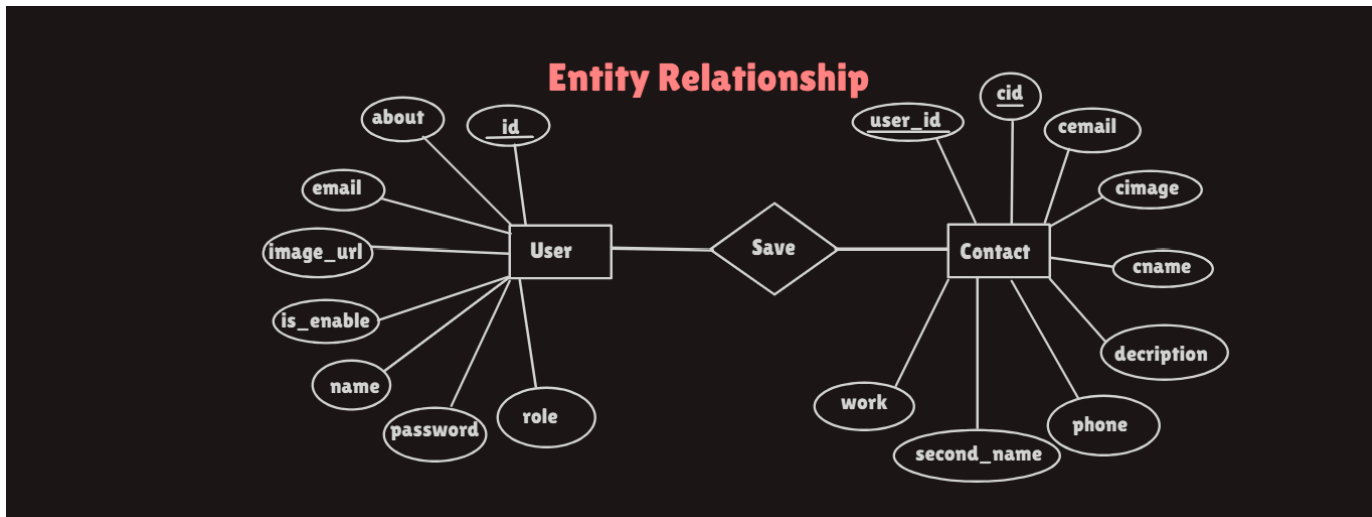


Diagrams [Smart Contact Manager]

1. ER Diagram (Entity-Relationship Diagram)



Entities:

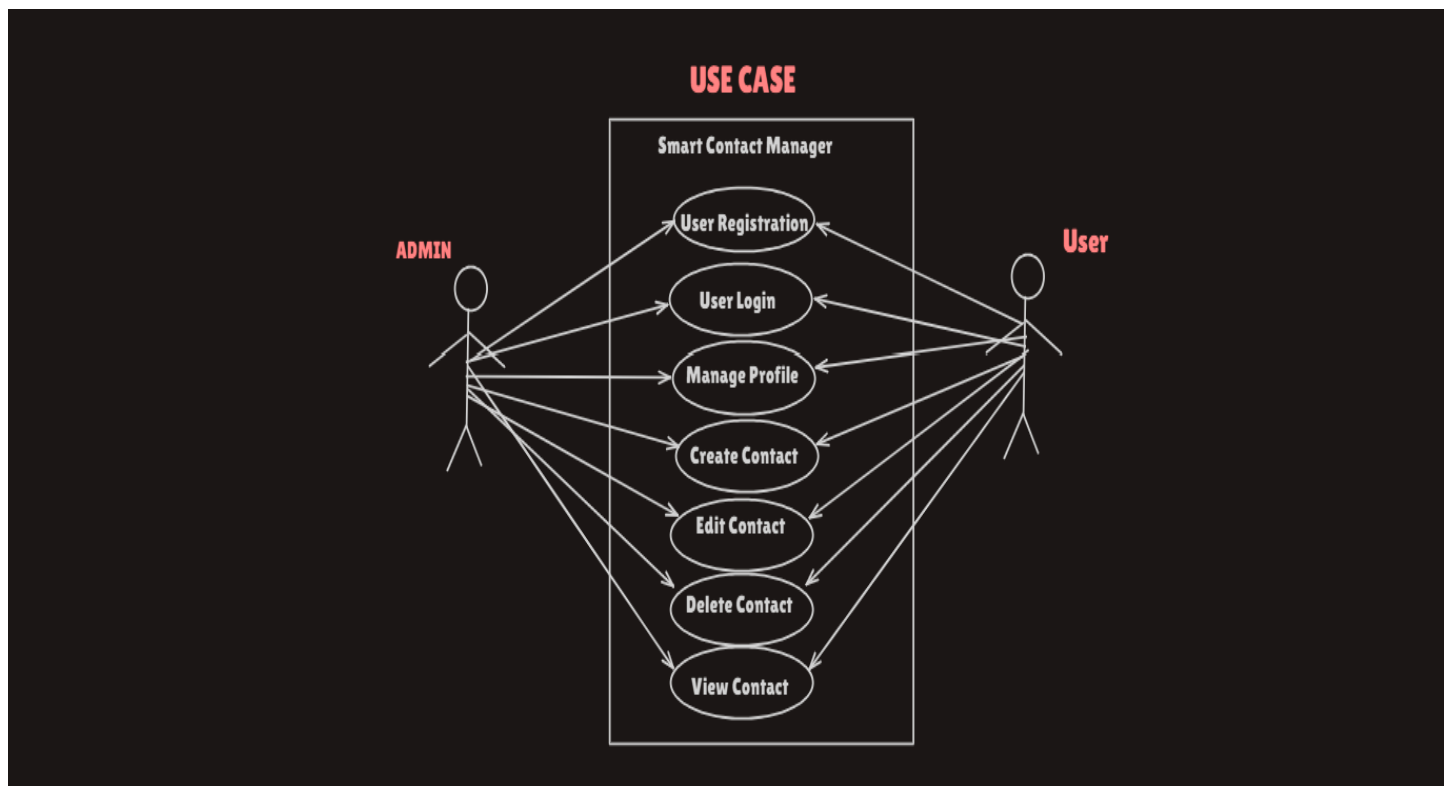
- **User**
 - Attributes: id, about, email, image_url, is_enable, name, password, role
- **Contact**
 - Attributes: cid, cemail, cimage, cname, decription, phone, second_name, work, user_id

Relationships:

- A **User** can have multiple **Contacts** (One-to-Many relationship).
 - The user_id in the **Contact** table acts as a foreign key referencing id in the **User** table.
-

2. Use Case DiagramActors:

- **Admin/User:** Manages users and their contact

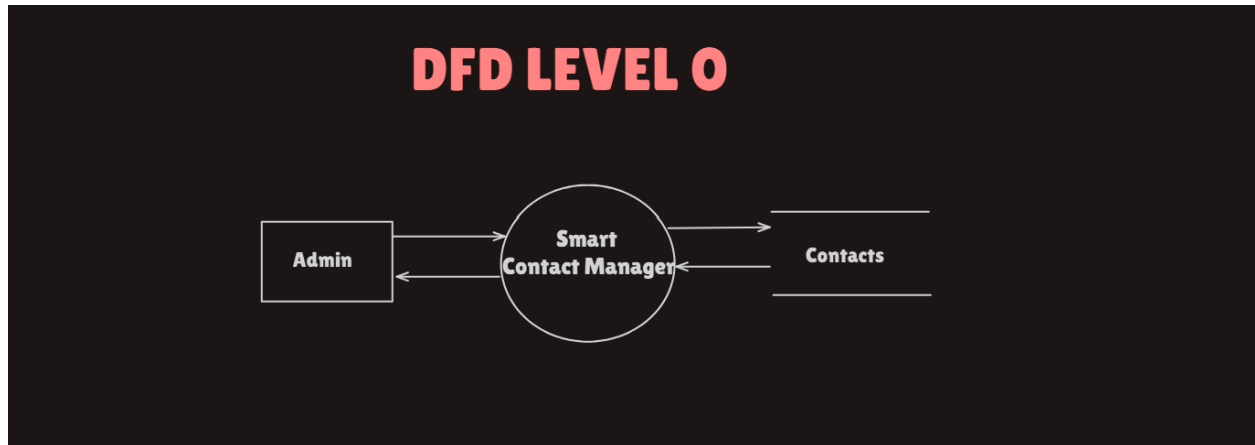


Use Cases:

1. **User Registration:** Add a new user.
2. **User Login:** Authenticate using email and password.
3. **Manage Profile:** Update details like about, image_url, name, etc.
4. **Create Contact:** Add a new contact for the logged-in user.
5. **Edit Contact:** Modify an existing contact's details.
6. **Delete Contact:** Remove a contact.
7. **View Contact List:** Fetch all contacts for the logged-in user.

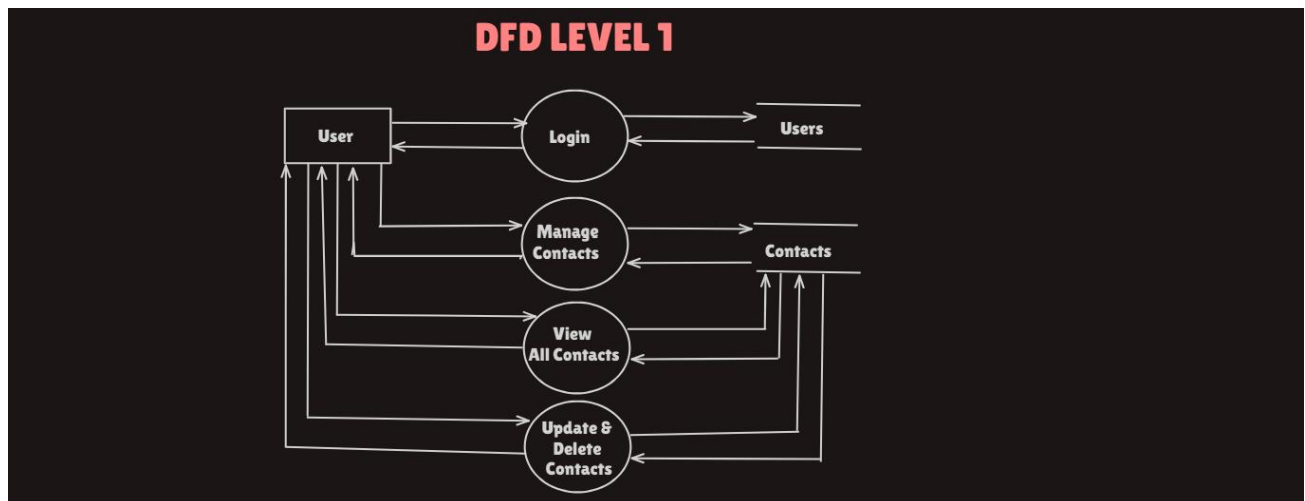
3. Data Flow Diagram (DFD)

Level 0 (Context Diagram):



- **External Entities:** User
- **Processes:** Manage User and Contact Information
- **Data Stores:** User Table, Contact Table
- **Data Flows:**
 - From User: Registration details, Login credentials, Contact details
 - To User: Profile details, Contact list, Contact details

Level 1 (Detailed DFD):



- **Processes:**
 1. **User Authentication:** Validates email and password for login.
 2. **Manage Profile:** Updates user details.

3. **Contact Management:**

- Add a new contact.
- Update an existing contact.
- Fetch all contacts for a user.
- Delete a contact.

- **Data Stores:**

- User Table: Stores user-related data.
 - Contact Table: Stores contacts for each user.
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