

Project Report MAD-I, Sept 2024 IITM

Project Name: “Household Service App”

○ Student details:

Name: Hemendra Kumar Sharma

Roll No: 22f2000984

Email:22f200984@ds.study.iitm.ac.in

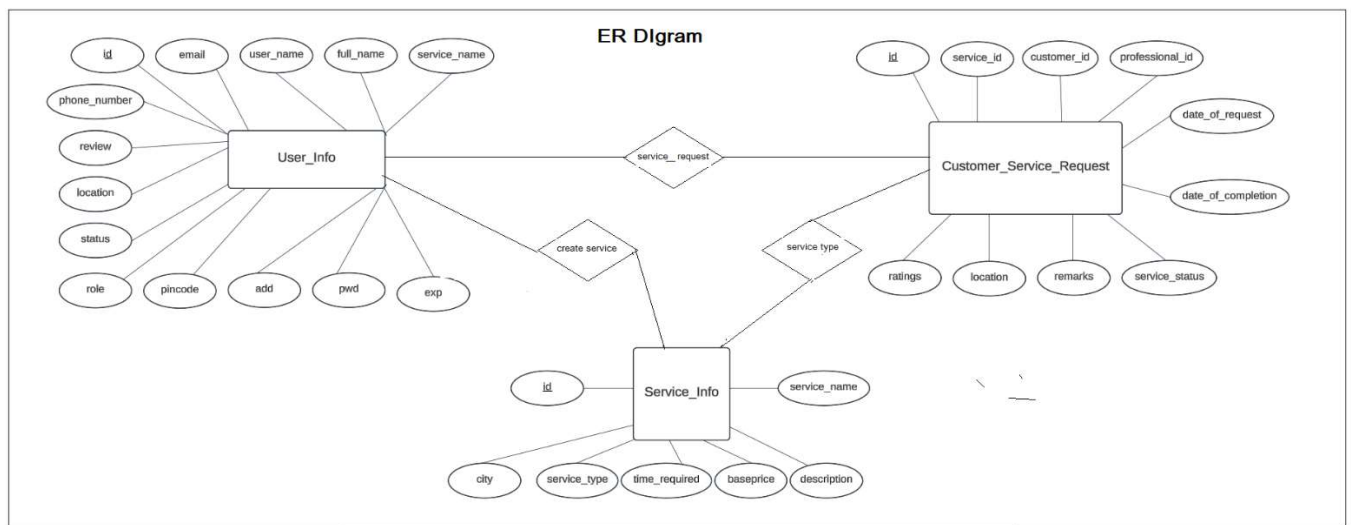
○ Project details (description and approach):

The Household service app is multiuser app which requires one admin and other service professionals/ customers. It acts as platform for providing comprehensive home servicing and solutions. The admin creates and manages the home services, professionals and customer's accounts. Customers can quickly check available home services based on their locations and can book the home services accordingly. Once the service is completed customer can close the service requests and provide customer ratings to the service professionals. Professionals also may accept, decline and close the service requests.

○ Frameworks and libraries used:

- **Flask (3.0.2)** is used for the python application code. Household application is developed using libraries like **flask, flask-sqlalchemy, matplotlib, datetime, os, and numpy.**
- And **Jinja2 (3.1.3)** templating engine is used for the html rendering.
- **SQLite and SQLAlchemy** - For data storage.

○ ER diagram and DB schema of the database



DB Schema Design: The following are the DB tables with columns and constraints. Each table has a unique identifier (id as primary key).

1. User_Info:

"id" INTEGER NOT NULL, "email" VARCHAR NOT NULL UNIQUE, "full_name" VARCHAR NOT NULL, "user_name" VARCHAR NOT NULL UNIQUE, "service_name" VARCHAR NOT NULL, "experience" INTEGER NOT NULL, "pwd" VARCHAR NOT NULL, "add" VARCHAR NOT NULL, "pincode" VARCHAR NOT NULL, "role" INTEGER NOT NULL, "status" VARCHAR NOT NULL, "location" VARCHAR NOT NULL, "reviews" VARCHAR NOT NULL, "phone_number" INTEGER NOT NULL,

2. Customer_Request_Info:

"id" INTEGER NOT NULL, "service_id" INTEGER NOT NULL, "customer_id" INTEGER NOT NULL, "professional_id" NUMERIC NOT NULL, "date_of_request" DATETIME NOT NULL, "date_of_completion" DATETIME NOT NULL, "service_status" VARCHAR NOT NULL, "remarks" VARCHAR, "location" VARCHAR NOT NULL, "ratings" VARCHAR, PRIMARY KEY("id"), FOREIGN KEY("customer_id") REFERENCES "user_info"("id"), FOREIGN KEY("professional_id") REFERENCES "user_info"("id"), FOREIGN KEY("service_id") REFERENCES "service_info"("id")

3. Service_Info:

"service_info" ("id" INTEGER NOT NULL, "servicename" VARCHAR NOT NULL, "description" VARCHAR NOT NULL, "baseprice" INTEGER NOT NULL, "time_required" VARCHAR NOT NULL, "service_type" VARCHAR NOT

Features implemented:

1. Customer and professional Signup and Login.

Admin:

1. Admin after signing in can add/edit/delete the available home services.
 2. Approve, reject and deletion of registration request from professional by admin
 3. Accept, reject and deletion of the customer's service requests by admin.
 4. Generation and rendering of the summaries like pie and bar charts on the admin dashboard.
- Searching of customer's service requests, customers and professionals list by admin.

Professional:

1. Service professional after signing in can accept, reject and close the service request from the customers.
2. Viewing and editing of the professional's profile by professional
3. Searching for the service requests based on date, location and pin codes by professional.
4. Generation and rendering of the summaries like pie and bar chart by the professional.

Customer:

1. Customer after signing in can view the available home service packages and other details.
2. Accept, reject and closing of the service requests from the customers by admin.
3. Searching for available services based on location, pincode and book the services according by customer
4. Generation and rendering of the summaries like pie and bar chart by the customer.

○ **Drive link of the presentation video**

<https://drive.google.com/file/d/1JC4Pr9u5mbJCtsZ0priJdcRD4Rpgx8lm/view?usp=sharing>

○ **Login credentials :**

Role	Username	Password
Admin	admin@iitm.ac.in	12345
Customer	customer@kolkata.com, customer@chennai.com, customer@mumbai.com, customer@delhi.com, customer@bengaluru.com, customer@noida.com	12345
Professional	professional@kolkata.com, professional@chennai.com, professional@mumbai.com, professional@delhi.com, professional@bengaluru.com, professional@noida.com	12345