

PROJECT REPORT



INTRODUCTION



Household Services Application

The Household Services Application is a multi-user platform designed to connect customers with professionals for household tasks. Customers can book services, browse professionals by location or service type, and manage requests via a user-friendly dashboard. Professionals can create profiles, add services, and track service requests. The Admin role oversees user accounts, manages services, monitors requests, ensures platform functionality, and handles analytics for smooth operation.



TECHNOLOGIES USED

→ BACKEND:

FLASK: A PYTHON-BASED WEB FRAMEWORK FOR HANDLING APPLICATION LOGIC AND ROUTING.
SQLITE: A LIGHTWEIGHT RELATIONAL DATABASE FOR DATA STORAGE AND MANAGEMENT.
FLASK_SQLALCHEMY: ADDS SQLALCHEMY SUPPORT FOR DATABASE MANAGEMENT IN FLASK.

→ FRONTEND:

HTML5: FOR STRUCTURING THE WEB PAGES.
CSS3: FOR STYLING AND RESPONSIVE DESIGN.
BOOTSTRAP: FOR A USER-FRIENDLY, RESPONSIVE, AND CONSISTENT INTERFACE.
JAVASCRIPT: FOR INTERACTIVE ELEMENTS AND DYNAMIC CONTENT LOADING

→ LIBRARIES AND TOOLS:

JINJA2: FOR SERVER-SIDE TEMPLATING IN FLASK.
REQUESTS: A LIBRARY FOR MAKING HTTP REQUESTS IN PYTHON
CHARTJS: LIBRARY FOR CREATING INTERACTIVE CHARTS

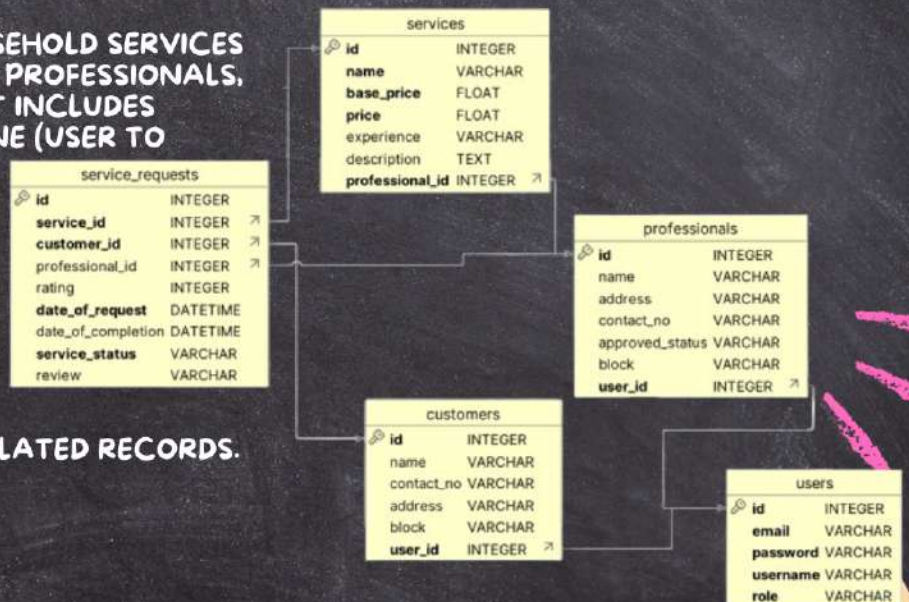
→ SERVER:

WERKZEUG: FOR DEVELOPMENT SERVER AND REQUEST HANDLING IN FLASK..

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DB SCHEMA

THE DATABASE SCHEMA FOR A HOUSEHOLD SERVICES APP, FEATURING TABLES FOR USERS, PROFESSIONALS, SERVICES, AND SERVICE REQUESTS. IT INCLUDES RELATIONSHIPS SUCH AS ONE-TO-ONE (USER TO CUSTOMER/PROFESSIONAL) AND ONE-TO-MANY CUSTOMER TO SERVICE REQUESTS, PROFESSIONAL TO SERVICES AND SERVICE REQUESTS). THE SCHEMA TRACKS CUSTOMER DETAILS, PROFESSIONAL SERVICES, REQUESTS, SERVICE STATUS, RATINGS, AND REVIEWS, WITH CASCADING DELETIONS FOR RELATED RECORDS.



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