

# MAD-I Project Report

## ServEase

### STUDENT DETAILS

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### DESCRIPTION

Household Services Application

It is a multi-user app (requires one admin and other service professionals/ customers) which acts as a platform for providing comprehensive home servicing and solutions.

### TECHNOLOGY STACK

- **Backend:** Flask
- **Frontend:** Jinja2 with Material Bootstrap ( HTML & CSS).
- **Database:** SQLite3 for managing users, services, and requests.

### METHODOLOGY


**ServEase** is a multi-user platform connecting customers with service professionals for household services. It features an admin dashboard for oversight and distinct roles for admins, customers, and service professionals.

The admin manages users, services, and professional approvals, while customers can request services, interact with professionals, and leave reviews. Service professionals handle and fulfill service requests.

## KEY FEATURES

- Key functionalities include secure authentication, an admin dashboard, customer service requests, reviews, and search/filter options by location, name, or pin code.
- The project uses models for Admin, User, Customer, ServiceProfessional, Service, and ServiceRequest, with essential relationships to track requests between customers and professionals.
- The application implements role-based login for users and separate dashboards for each role, along with responsive forms and a cohesive UI using Jinja2 and Material Bootstrap.
- RESTful APIs handle CRUD operations with role-specific endpoints, ensuring efficient backend operations.
- Frontend (HTML5) and backend (Flask) validations ensure accurate data handling and smooth functionality. Overall, ServEase combines robust backend logic with user-friendly frontend design to deliver a seamless experience for all users.

## ER Diagram

 ServEase\_ER

## DRIVE LINK

[VIDEO DEMO](#)