

Project Report: Household Service App

Student Details

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Project Overview

Problem Statement

Develop a comprehensive Household Service App that connects customers with professional service providers across various household services, with three distinct user roles: Admin, Customer, and Professional.

Project Approach

My project development approach was methodical and involved several key steps:

1. **Research and Inspiration**
 - a. Conducted extensive research on existing web applications providing similar services
 - b. Studied their implementation strategies, user interfaces, and core functionalities
 - c. Analyzed user experience and interaction flows in comparable platforms
2. **Learning and Skill Development**
 - a. Started from scratch with no prior coding experience
 - b. Utilized online resources like Google, YouTube tutorials, and coding platforms
 - c. Learned programming concepts, web development frameworks, and best practices
 - d. Followed beginner-friendly learning paths and tutorials
3. **Technical Implementation**
 - a. Chose Flask as the primary web framework
 - b. Implemented a role-based access control system
 - c. Developed separate blueprints for admin, customer, and professional functionalities
 - d. Created comprehensive routes and views for each user type

Frameworks and Libraries Used

- **Backend:** Flask

- **Database:** SQLAlchemy (Flask-SQLAlchemy)
- **Authentication:** Flask-Login
- **File Handling:** Werkzeug
- **Frontend:** HTML, CSS, Bootstrap (implied from code structure)

Project Features

User Roles and Capabilities

1. **Admin**
 - a. Manage professionals (approve/reject)
 - b. Block/unblock users
 - c. Add, edit, and delete services
 - d. View and manage users and service requests
2. **Customer**
 - a. Browse available services
 - b. Book services from professionals
 - c. Manage service requests
 - d. Review and rate services
 - e. Edit and delete pending requests
3. **Professional**
 - a. Set up professional profile
 - b. Manage service requests
 - c. Accept, reject, and complete service requests
 - d. View and manage reviews

Project Video Presentation

<https://drive.google.com/file/d/1JPWvRw9bpu8isAGoXTAf8uYTefsSKJ4v/view?usp=sharing>

Database Design

Entity-Relationship (ER) Diagram

Service Platform ERD

