

UrbanClap: HouseHold Services

Project Title - UrbanClap

Project Report by-

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Modern Application Development - II

January, 2024 Term

Student details

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About Me - I am Ish Sachdeva in Diploma Level and this is my

Modern Application two Development Project

Project Video → [*Project Presentation Link*](#)

Project Description

UrbanClap is a full-stack web application that connects service professionals with customers, providing a platform for booking and managing various home services.

Core Features

1. User Management

- **Multi-role System:**

- Customers: Can book services and manage their requests
- Service Professionals: Can offer services and manage their work
- Administrators: Can manage the entire platform

2. Service Management

- Service listing with details (name, description, base price, time required)
- Service categorization

- Dynamic pricing
- Service availability tracking

3. Booking System

- Service request creation
- Real-time status tracking
- Payment integration
- Review and rating system

4. Location Management

- City-based service availability
- Pincode verification
- Service area management

5. Admin Dashboard

- User management (block/unblock users)
- Professional verification
- Service management
- City management
- Analytics and reporting
- Export functionality (CSV)

6. Automated Notifications

- Daily reminders for pending services
- Monthly reports
- Email notifications using Flask-Mail
- Celery for background task processing

Technical Stack

Backend

- **Framework:** Flask (Python)
- **Database:** SQLite with SQLAlchemy ORM
- **Authentication:** JWT (JSON Web Tokens)
- **API:** RESTful architecture
- **Caching:** Redis
- **Task Queue:** Celery
- **Email:** Flask-Mail

Frontend

- **Framework:** Vue.js
- **Routing:** Vue Router
- **UI:** Bootstrap

- **State Management:** Local Storage
- **API Integration:** Axios

Security Features

- JWT-based authentication
- Password hashing
- Role-based access control
- CORS protection
- Input validation

Additional Features

- Caching for improved performance
- Background task processing
- CSV export functionality
- Responsive design
- Real-time status updates

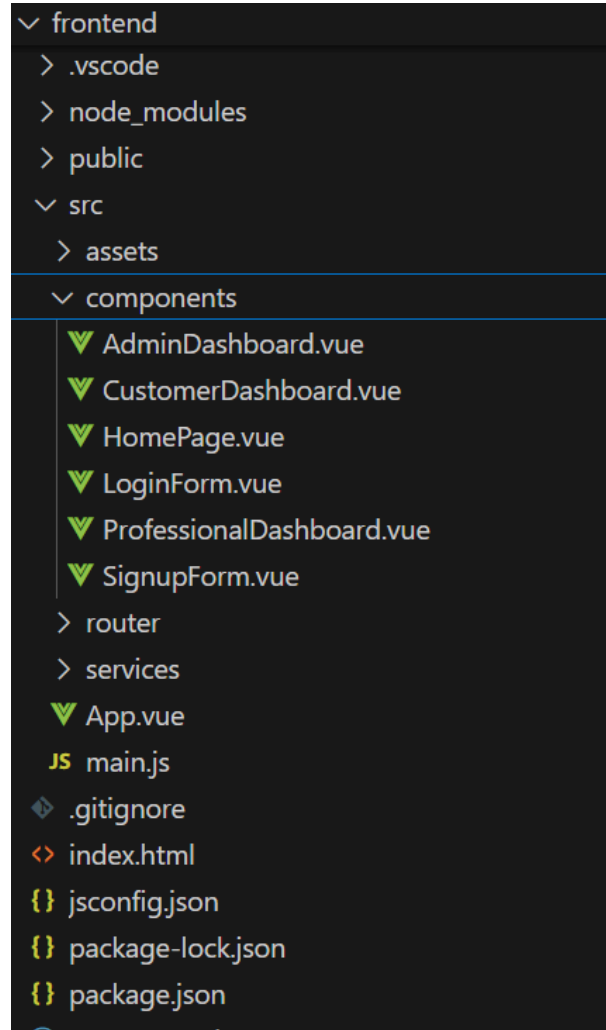
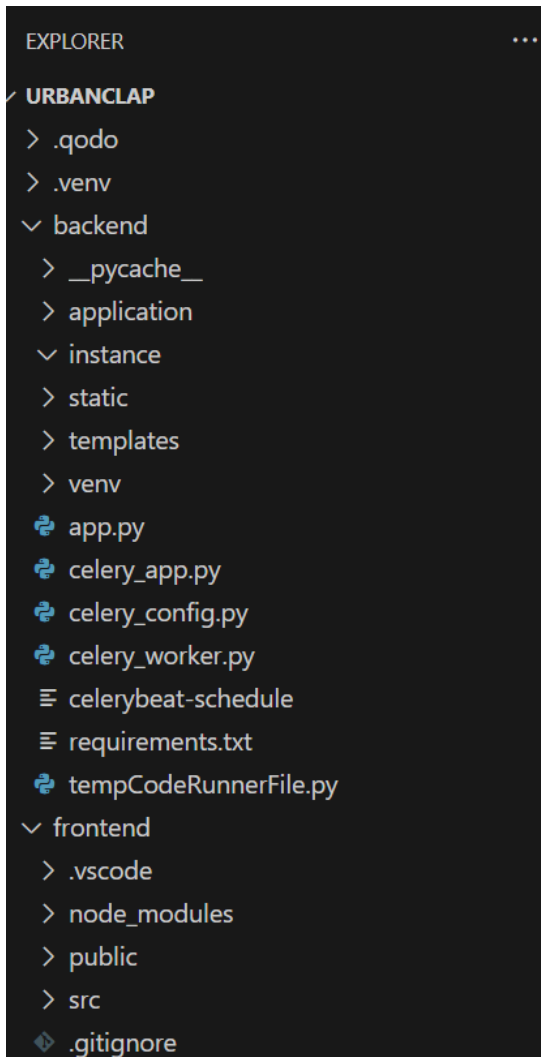
Architecture

- **MVC Pattern:** Model-View-Controller architecture
- **API-First Design:** RESTful API endpoints

- **Modular Structure:** Separate components for different functionalities
- **Scalable Design:** Easy to add new features and services

This project serves as a comprehensive service marketplace platform, allowing users to book various services while providing administrators with tools to manage the platform effectively.

Folder Structure For the Project



ER Diagram

