



NeatNest: Smart Scheduling for Home Cleanup Services

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Date of presentation: 18/07/25

Group No.5

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2024-25*

Content

- Introduction
- Objective
- Survey of literature
- Problem definition
- Scope of project
- Technology and Technical skills required for implementation
- Block Diagram
- Flow chart
- Societal impact
- Feasibility
- Gantt chart
- Reference

Introduction

In urban centers like Mumbai, the availability of reliable domestic help has become a growing challenge due to increasing demand and a shrinking supply of skilled workers. Many residents, especially working professionals, face difficulty in finding trustworthy and consistent cleaning support.

This project proposes a web-based platform that connects users with verified cleaning professionals for home and office cleaning services. The platform allows users to book services as per their convenience, with options to choose from one-time cleaning, room-specific cleaning (like just a bedroom or washroom), or regular subscription packages. By digitizing the cleaning service industry, this project aims to make professional cleaning more accessible, structured, and dependable for urban residents.

Objective

The primary objectives of this project are:

1. To develop an accessible and user-friendly platform for booking professional cleaning services online.
2. To provide flexible options including one-time cleaning, room-specific services, and affordable monthly/weekly subscriptions.
3. To ensure reliable, vetted, and trained cleaning staff availability.
4. To develop an accessible and user-friendly platform for booking professional cleaning services online.

Survey of literature

- Many global apps (e.g., UrbanClap, Handy, TaskRabbit) have proven the viability of on-demand cleaning services.
- Mumbai residents often report difficulty in hiring trustworthy domestic help ([Survey: Mumbai Mirror, 2023]).
- Studies suggest a growing preference for professional services over traditional hiring due to trust, flexibility, and convenience ([ResearchGate, "Urban Cleaning Services Trends in India", 2022]).

Problem definition

These are problems faced by users :

- Difficulty in finding consistent and reliable domestic help in metropolitan areas like Mumbai.
- Lack of transparency and professionalism in traditional maid hiring.
- No streamlined method for managing and scheduling regular cleaning needs.
- Rising hygiene concerns post-pandemic with no easy solution for regular deep-cleaning.

This project addresses these issues by offering an affordable, efficient, and user-friendly solution.



Scope of project

Our platform is designed to

- To provide on-demand and scheduled cleaning services.
- To offer cleaning by room type and entire flat options.
- Integration of digital payments and subscription plans.
- Admin panel for tracking staff performance, availability, and user feedback.
- Scalable to other cities with minimal modifications.

This project aims to provide a convenient, reliable, and tech-enabled platform for booking professional cleaning services tailored to the needs of urban households.

Technology

- Frontend: HTML, CSS, JavaScript or React.js
- Backend: Node.js or Django
- Database: MongoDB or MySQL

Societal impact

This project has the following positive impacts:

- Empowers working professionals by saving time.
- Generates employment opportunities for trained cleaners.
- Encourages hygiene and cleanliness in urban households.
- Reduces dependence on unverified housemaids.
- Offers elderly and single residents a trusted cleaning option.

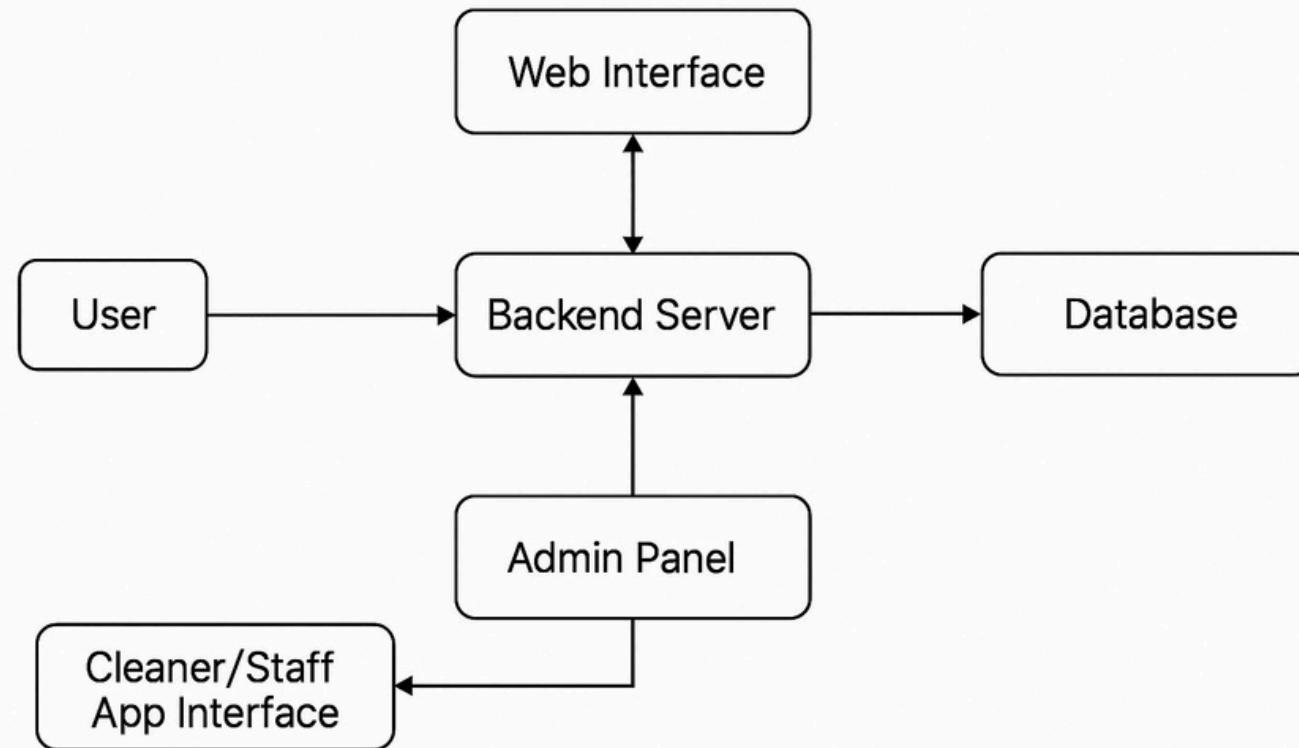
Feasibility

- Technical Feasibility: Can be built using modern full-stack tools with minimal resource requirement.
- Economic Feasibility: Potential for strong revenue via subscriptions and per-service charges.
- Operational Feasibility: Cleaners can be hired and trained locally with background verification.
- Scalability: The model can expand to cover other urban areas and include services like pest control or sanitization.

Technical skills required for implementation

- Frontend: HTML, CSS, JavaScript, React.js or Angular
- Backend: Node.js or Django
- Database: MongoDB or MySQL
- Other Skills: Git, RESTful API, responsive web design, database management

Block Diagram



Gantt chart

Week	Activity
1 to 2	Requirement Gathering
2 to 4	Market Survey & Finalizing Scope
3 to 4	UI/UX Design
4–5	Frontend Development
6–7	Backend Development
8 to 9	Payment & Auth Integration
9 to 10	Testing and Debugging
10 to 11	Deployment and Presentation

Reference

1. Urban Company Business Model – StartupTalky
2. "On-demand Cleaning Services in India" – ResearchGate, 2022
3. Government of Maharashtra: Urban Household Labor Survey, 2023
4. Razorpay Documentation
5. React.js & Node.js Official Docs

Thank You