

# Home Services Booking Web Application

## Description

You will develop a **Home Services Booking Web Application** that allows users to book various home maintenance and repair services from professionals and service companies. The application connects **service providers** (plumbers, electricians, cleaners, etc.), and **customers** (homeowners or tenants).

The platform will handle, based on a customer's request, the full **service booking and fulfillment process**, which involves multiple key steps, including **browsing and selection, service exploration, provider selection, booking confirmation, payment processing, service execution, review submission, and feedback management**. The process involves **the customer, the service provider, and the platform administrator**, ensuring a seamless end-to-end experience from booking to service completion.

This process should also consider constraints and limitations such as:

- **Availability of service providers**
- **Location constraints**
- **Emergency vs. scheduled service requests**
- **Service pricing variations**
- **Equipment requirements**

Each **service provider** must describe their services by uploading at least three images or certificates and indicating their availability, pricing model, and any specific requirements. All communication must be conducted through the platform's **messaging system**.

## Main Features

(Not limited to)

- **Registration and authentication** for customers and service providers.
- **Profile management** for customers and service providers, including details like experience, location, and ratings.
- **Service listing and management** via a dedicated interface for providers.
- **Booking and service management** – customers can book services, service providers can accept/reject or ask for additional information.
- **Simple and advanced search** for services and professionals.
- **Messaging system** for communication between customers and service providers.
- **Rating and review system** for services and providers.
- **Back-office interface** allowing an administrator to manage users, bookings, and reports.
- **Recommendation system (optional)** to suggest services based on user preferences.

## Technologies

The application will be developed using **Java EE technologies** and connected to a database. On the client side, standard technologies such as **HTML, CSS, and JavaScript** will be used, along with a responsive **web library (e.g., Bootstrap)**. The use of frameworks and libraries is allowed on both the client and server sides.