

A Major Project Synopsis on

HomEase

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Towards the partial fulfillment for the Award of the Degree of

MASTER OF COMPUTER APPLICATIONS

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I. Introduction:

HomEase (HomeServices) is the integrated digital platform connecting homeowners with verified, on-demand service providers (mechanics, plumbers, electricians) through a seamless, Uber-like experience. Elevate your home maintenance game with instant booking, real-time service tracking, automated invoicing, and transparent pricing—all in one click.

Our platform offers a virtual marketplace where customers can effortlessly book urgent repairs or scheduled services, while technicians gain access to a steady stream of clients. With years of expertise in both home services and digital solutions, we bridge the gap between reliability and convenience.

Finding reliable customers and managing daily operations is a constant challenge for independent service professionals like mechanics, plumbers, and electricians. Similarly, customers struggle to locate trustworthy providers quickly. Our platform, **HomEase**, bridges this gap by creating a digital marketplace where skilled professionals can showcase their services and customers can effortlessly book them. Designed to simplify hiring and service delivery, **HomEase** offers automated booking, payment processing, and customer management tools all in one place.

How **HomEase** Works:-

1. For Service Providers:

- a. **Create Your Profile:** List your skills, upload certifications, set pricing, and define availability.
- b. **Manage Bookings:** Accept or decline requests via a simple dashboard. Sync your calendar to avoid double-booking.
- c. **Get Paid Faster:** Secure in-app payments with automated reminders for pending invoices.
- d. **Grow Your Reputation:** Earn reviews and ratings to stand out in search results.

2. For Customers:

- a. **Search & Filter:** Find providers by location, price, ratings, or urgency (e.g., “emergency plumber near me”).
- b. **Book Instantly:** Schedule services 24/7 and reschedule with one click.
- c. **Stay Informed:** Receive automated updates (e.g., “Your mechanic is en route”) and post-service feedback prompts.

II. Motivation

Our services include:

1. For Service Providers (Technicians):

- a. Eliminate inconsistent workloads and administrative hassles.
- b. Reduce operational costs by 50% with no middlemen.
- c. Focus on your craft—we handle bookings, payments, and customer feedback.
- d. Free tools: Instant invoicing, automated payment reminders, and performance analytics.

2. For Customers:

- a. Say goodbye to endless Google searches and unverified technicians.
- b. Save time, money, and stress with upfront pricing and real-time technician tracking.
- c. Book services 24/7, watchlist preferred providers, and receive status updates.

III. Problem Statement

1. Service Providers Struggle With:

- a. Unpredictable income and customer acquisition costs.
- b. Manual scheduling, invoicing, and payment follow-ups.
- c. Lack of visibility in competitive markets.

2. Homeowners Face Challenges Like:

- a. Difficulty finding trusted, available technicians during emergencies.
- b. Price gouging and lack of transparency.
- c. Time wasted coordinating repairs across multiple platforms.

IV. Methodology/Planning :

1. UI Development (React JS):

Key Components:

- a. Homepage (Service Categories, Emergency Booking)
- b. Service Provider Profiles (Ratings, Pricing, Availability)
- c. Real-Time Tracking Dashboard
- d. Booking History & Invoices
- e. Customer/Provider Profiles

2. Portal Design:

- a. Super Admin Portal:
 - User Management (Technicians/Customers)

- Service Request Monitoring
- Payment Gateway Oversight
- Support Ticket Resolution

- b. Service Provider Portal:
 - Profile & Availability Setup
 - Booking Acceptance/Rejection
 - Service History & Earnings Dashboard
 - Instant Invoice Generation

- c. Customer Portal:
 - Search Filters (Service Type, Location, Ratings)
 - Real-Time Technician GPS Tracking
 - Prebook/Reschedule Services
 - Payment & Review System

3. Backend Development:

- a. Spring Boot (Java): For secure, scalable APIs.
- b. MySQL: Stores user data, service histories, and transactions.
- c. Integrations: GPS tracking, payment gateways (Stripe/PayPal), and SMS/email alerts.

V. Requirements

1. Software:

- a. OS: Windows/Linux
- b. UI: React JS (Responsive Design)
- c. Backend: Spring Boot
- d. Database: MySQL
- e. APIs: Google Maps (GPS), Payment Gateways

2. Hardware:

- a. Processor: Intel i3 or higher
- b. RAM: 4GB (minimum)
- c. Storage: 20GB

VI. Bibliography/References:

1. Apps:

- a. TaskRabbit
- b. Uber/Ola
- c. Urban Company



