

Integrated Project - II (CS205)



PROJECT REPORT

on HomeEase

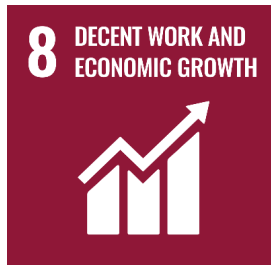
BATCH-2022



Project Mentor

Student Names

1. Rudar Partap Singh - 1321
2. Sachitt Rajpal - 1328
3. Sharad Chandel -1360
4. Shaiv Sud - 1358
5. Safal Varadhan -1329



SDG : 8

In a country like India, where skilled workers—plumbers, electricians, carpenters and more—form the backbone of our everyday lives, finding consistent work can be a daily struggle. For every Raju Bhaiya fixing a leaking pipe or Sunita Didi rewiring a home, there's a story of hard work, resilience, and the constant hustle to make ends meet. This platform isn't just a tool; it's a movement to uplift these unsung heroes, giving them the stability, respect, and opportunities they truly deserve. Here's how it's making a difference :

1. Gives Workers Stable Jobs

How it works: The platform connects skilled workers directly with customers in their area. No more standing at local *nakas* or relying on unreliable middlemen.

Impact: Workers like Ramesh, a plumber from Mumbai, no longer have to worry about where his next job will come from. With a steady flow of work, he can finally provide for his family without the constant stress of uncertainty.

2. Helps Workers Grow Their Business

How it works: Workers can showcase their skills, experience, and availability on the platform.

Customers can book them directly, cutting out the middleman.

Impact: Take Arjun, a carpenter from Bangalore, who started small but now gets regular orders through the platform. He's even hired two helpers and dreams of opening his own workshop someday.

3. Reduces Unemployment

How it works: The platform creates opportunities for skilled workers who often struggle to find work due to lack of connections or resources.

Impact: For people like Priya, a young electrician from Delhi, the platform has been a lifeline. After

losing her job during the pandemic, she now has a steady income and a renewed sense of purpose.

4. Makes Work Fair and Transparent

How it works: Workers set their own rates and choose the jobs they want. Customers can see reviews and ratings, ensuring transparency.

Impact: No more haggling or underpayment. Workers like Sanjay, a painter from Pune, feel respected and valued for their skills.

5. Supports Local Workers

How it works: The platform focuses on connecting local workers with local customers, keeping money within the community.

Impact: When you hire through the platform, you're supporting someone like Meena, a single mother and electrician from Chennai, who's just trying to give her kids a better future.

6. Encourages Skill Improvement

How it works: Workers receive feedback from customers through reviews and ratings, helping them identify areas for improvement.

Impact: For example, Vikas, a young plumber from Jaipur, used customer feedback to improve his communication skills. Today, he's one of the most sought-after workers in his area.

7. Helps Women and Marginalized Workers

How it works: The platform is inclusive, providing equal opportunities for women and workers from underserved communities.

Impact: Women like Anjali, a carpenter from Ahmedabad, no longer face discrimination. She's proud to showcase her skills and earn a living on her own terms.

8. Builds Trust Between Customers and Workers

How it works: Customers can read reviews and see ratings before hiring, while workers are motivated to deliver their best to earn positive feedback.

Impact: This creates a system of trust and reliability. For example, when you hire someone like Deepak, a trusted electrician from Hyderabad, you know you're in good hands.

9. Promotes Local Economic Growth

How it works: By supporting local workers and businesses, the platform keeps money circulating within the community.

Impact: This isn't just about individual growth—it's about uplifting entire communities. When workers thrive, local economies thrive too.

10. Scalable and Sustainable

How it works: The platform is designed to grow, adding more workers, services, and features like training programs and secure payment systems.

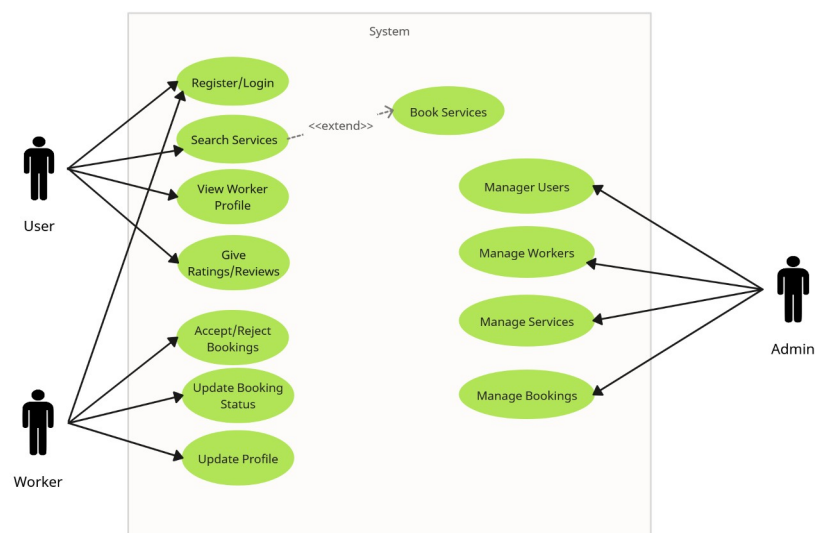
Impact: This ensures long-term benefits for workers and customers alike, creating a sustainable ecosystem of growth and opportunity.

Problem Statement: For a long time, people have had a hard time finding trustworthy and skilled workers for home services like plumbing, electrical repairs, carpentry, and maintenance. The current system has problems like workers not being available, uneven service quality, and unclear pricing. This leads to frustration, wasted time, and poor results for customers. At the same time, workers struggle to find steady jobs and build a good reputation. There's a clear need for a simple, transparent, and efficient platform to connect customers and service providers.

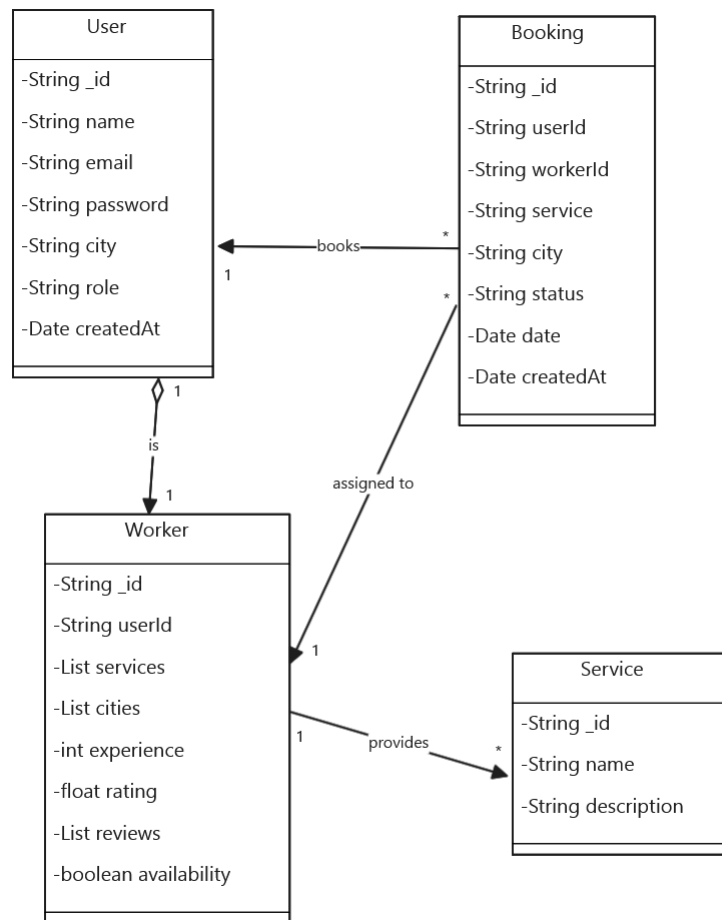
Need Statement: We need a simple and easy-to-use platform like HomeEase that connects customers with reliable and skilled workers for their home service needs. The platform will make it easy for users to find workers based on their location, type of service needed, and availability. Workers can show their skills, experience, and availability, while customers can book services, leave reviews, and rate workers. This will solve the problems of the current system, give customers reliable access to skilled workers, and build trust between customers and workers. It will also help workers find more jobs and grow their businesses, supporting their livelihoods.

UML Diagrams:

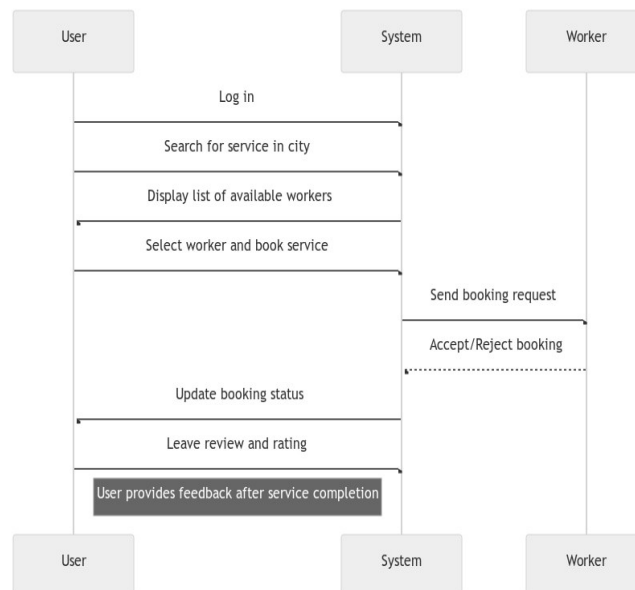
1. UML



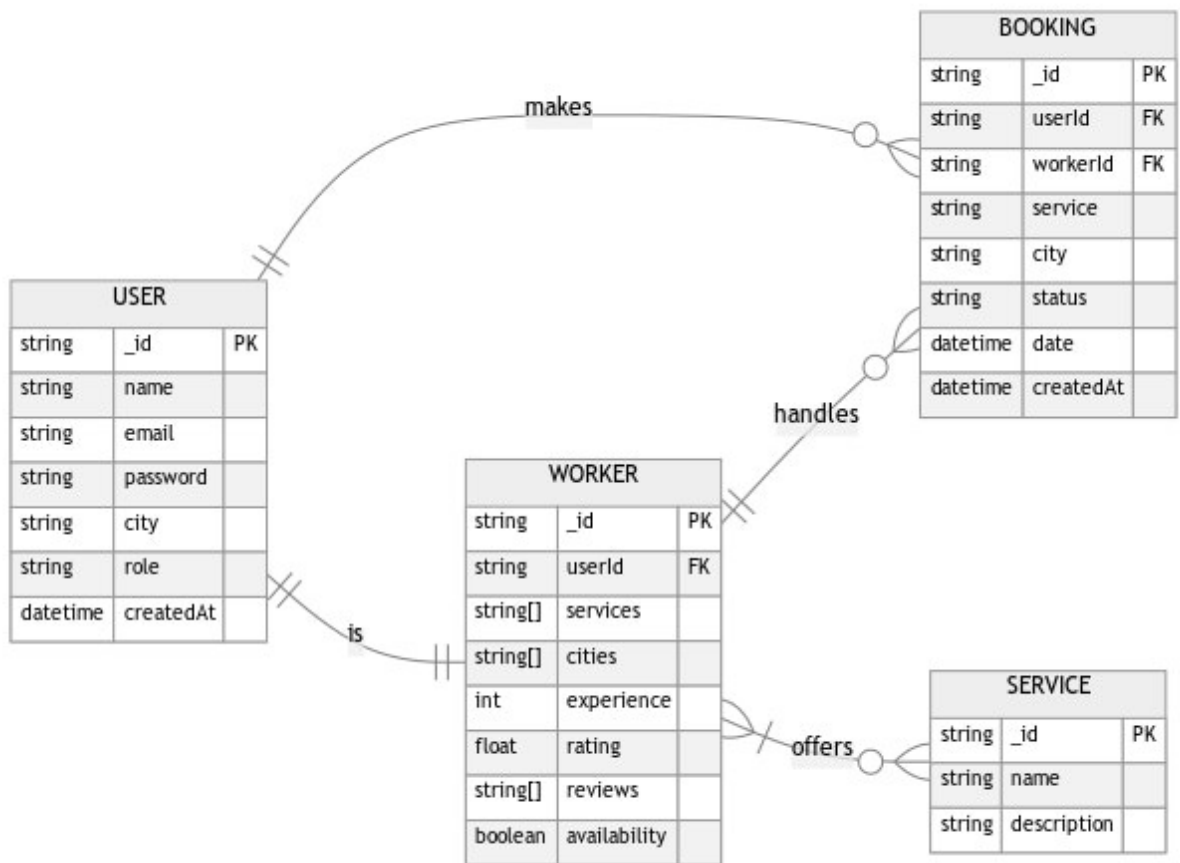
2. CLASS



3. SEQUENCE



4. ER



WORKING:

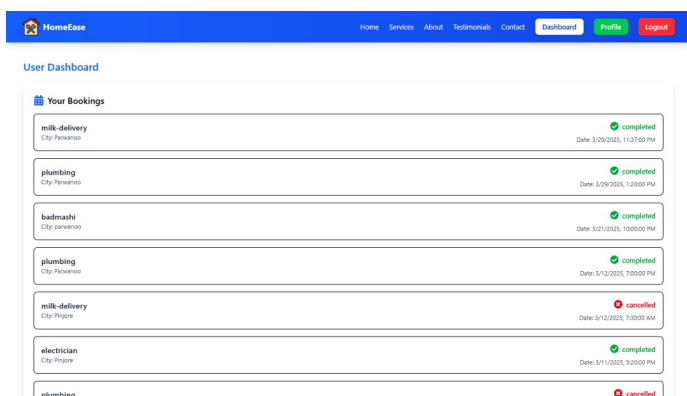
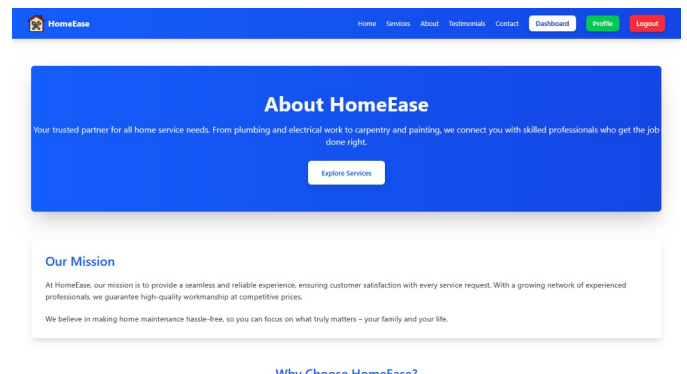
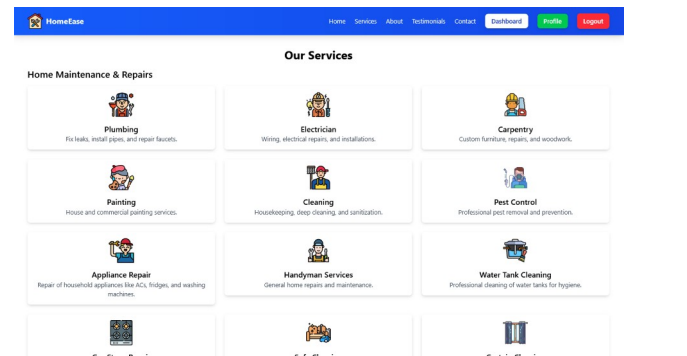
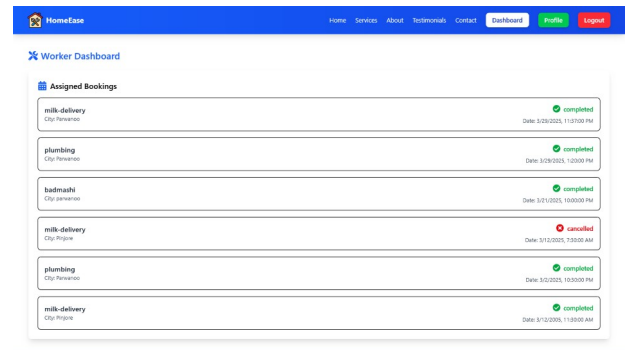
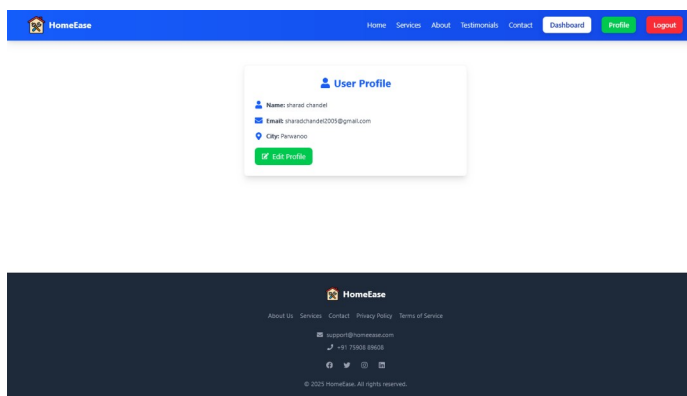
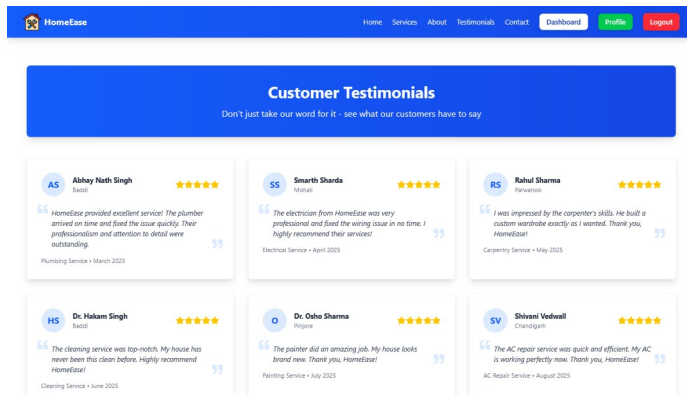
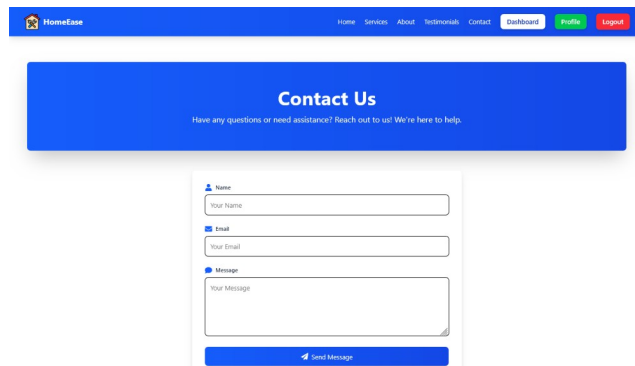
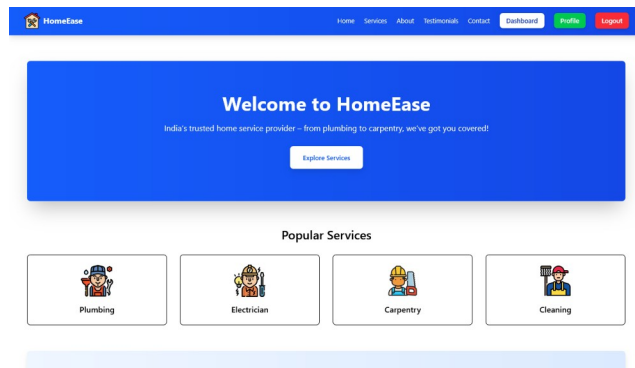
HomeEase isn't just a platform; it's a bridge connecting skilled workers with customers who need their services. Designed with simplicity and efficiency in mind, it ensures a smooth experience for everyone involved. Here's how it works :

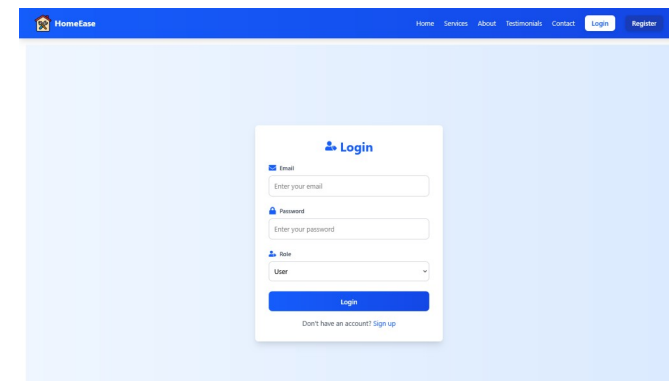
1. User Registration & Login: Users sign up with name, email, password, and city. Workers add skills and experience. Secure login using JWT ensures only verified users access the platform.
2. Home Page: Displays popular services (plumbing, electrician, etc.). Users click to explore or book.
3. Services Page: Lists all services with icons and descriptions. Clicking a service takes users to the Service Detail Page.
4. Service Detail Page: Shows service details, price range, and reviews. Users select city, choose worker, pick date/time, and book.
5. Booking Process: Users confirm booking after selecting worker, date, and time. Worker is notified instantly.
6. Worker Dashboard (Future Scope): Workers manage bookings, update availability, and view ratings/reviews.
7. Testimonials Page: Displays customer reviews to build trust and encourage new users.
8. About Page: Provides info about HomeEase's mission, features, and benefits.
9. Contact Page: Users fill out a form to contact support for inquiries or feedback.
10. Authentication & Security: Secure login with JWT and hashed passwords ensures user data safety.

How It Works Together:

1. Users sign up/log in.
2. Browse services on Home/Services Page.
3. Book services via Service Detail Page.
4. Workers manage bookings via Dashboard.
5. Users read testimonials and contact support if needed.

PROTOTYPE PHOTOGRAPHS





The login form is centered on a light blue background. It features a 'Login' title with a user icon. Below the title are four input fields: 'Email' (with a mail icon), 'Password' (with a lock icon), 'Role' (a dropdown menu currently showing 'User'), and a 'Login' button. A link for users without an account is provided at the bottom.

Login

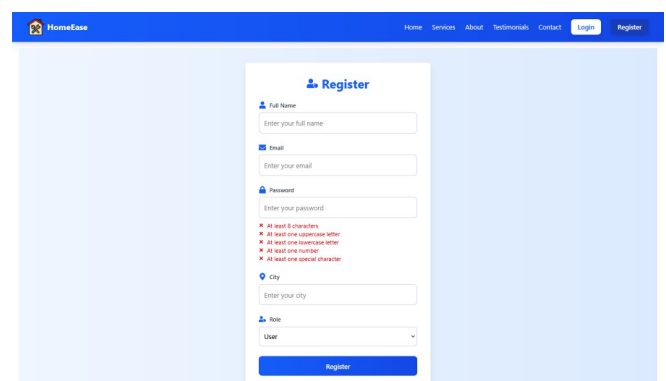
Email
Enter your email

Password
Enter your password

Role
User

Login

Don't have an account? Sign up



The register form is centered on a light blue background. It features a 'Register' title with a user icon. Below the title are five input fields: 'Full Name', 'Email', 'Password', 'City', and 'Role' (a dropdown menu currently showing 'User'). A 'Register' button is at the bottom. Password requirements are listed in red text.

Register

Full Name
Enter your full name

Email
Enter your email

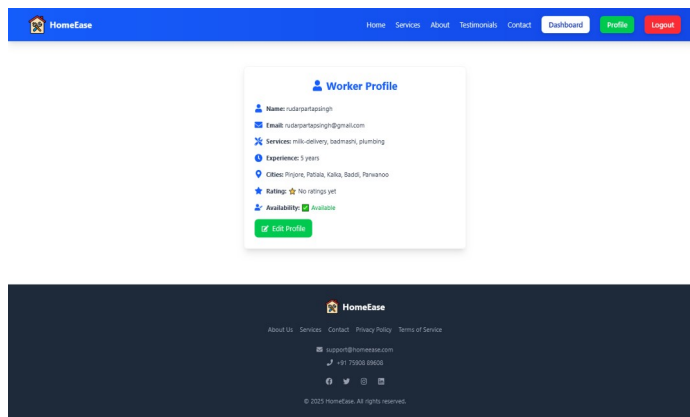
Password
Enter your password

- At least 8 characters
- At least one uppercase letter
- At least one lowercase letter
- At least one number
- At least one special character

City
Enter your city

Role
User

Register



The worker profile form is centered on a light blue background. It features a 'Worker Profile' title with a user icon. Below the title are several fields: 'Name', 'Email', 'Services', 'Experience', 'Cities', 'Rating', and 'Availability'. A green 'Edit Profile' button is at the bottom.

Worker Profile

Name: ruterpartapdighi

Email: ruterpartapdighi@gmail.com

Services: milk-delivery, badmash, plumbing

Experience: 5 years

Cities: Pithala, Pithala, Kalka, Badli, Pawanoo

Rating: No ratings yet

Availability: Available

Edit Profile

DIVISION OF WORK IN TEAM:-

Name of student	ID	Role
1. Rudar Partap Singh	2211981321	Frontend dev
2. Shaiv Sud	2211981358	Backend dev
3. Sachitt Rajpal	2211981328	Frontend dev + Leader
4. Sharad Chandel	2211981360	Backend dev
5. Safal Varadhan	2211981329	Frontend dev

Conclusion: - The project "HomeEase" was designed to create a simple and efficient platform that connects homeowners with reliable and skilled service providers for their home needs. By addressing the challenges of finding trustworthy workers, ensuring transparent pricing, and providing a seamless booking process, HomeEase promotes convenience, quality service, and trust between customers and workers. This platform not only makes life easier for homeowners but also supports service providers by giving them access to more job opportunities and helping them grow their businesses. In doing so, HomeEase contributes to a fairer and more sustainable economy, aligning with the goal of creating decent work and economic growth for all.