

# PROJECT PROPOSAL

**Local Traders Community**

CSE 2291  
Software Development II

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# "Local Traders Community"

## 1. Introduction

The purpose of this project is to develop a Local Traders Community, a web-based platform that connects skilled tradespeople with customers in their local area. The platform will facilitate the discovery, booking, and review of tradespeople, providing a seamless experience for both service providers and customers.

## 2. Project Objectives

- **Connect Tradespeople and Customers:** Provide a platform where tradespeople can showcase their skills and services, and customers can find and book reliable local service providers.
- **User-Friendly Interface:** Design an intuitive and easy-to-use interface for both tradespeople and customers.
- **Secure Transactions:** Implement secure booking and payment systems.
- **Feedback and Reviews:** Enable customers to leave reviews and ratings to help others make informed decisions.
- **Real-Time Communication:** Facilitate real-time communication between tradespeople and customers.

### 3. Key Features and Components

#### 1. User Profiles:

**1.1 Tradespeople Profiles:** Detailed profiles for tradespeople listing their skills, experience, certifications, customer reviews, and rates.

**1.2 Customer Profiles:** Profiles for individuals and businesses seeking services, which might include details on their service requirements, location, and contact information.

#### 2. Search and Discovery:

**2.1 Search Functionality:** Users can search for tradespeople based on location, type of service, ratings, availability, and price range.

**2.2 Filters and Sorting:** Advanced filters to narrow down search results and sorting options to prioritize based on relevance, reviews, or proximity.

#### 3. Booking and Scheduling:

**3.1 Real-Time Booking System:** Allows customers to book appointments with tradespeople directly through the platform.

**3.2 Calendar Integration:** Integrates with calendar applications to manage bookings and availability for both tradespeople and customers.

#### 4. Reviews and Ratings:

**4.1 Customer Reviews:** Customers can leave reviews and ratings after services are completed.

**4.2 Response Feature:** Tradespeople can respond to reviews to thank customers or address concerns.

#### 5. Messaging System:

**5.1 In-App Messaging:** Secure messaging system for customers and tradespeople to communicate before and after bookings.

## 6. Payment Processing:

**6.1 Secure Payments:** Integration with payment gateways for secure transactions.

**6.2 Invoicing and Receipts:** Automated invoicing and receipt generation for both parties.

## 7. Verification and Trust:

**7.1 Background Checks:** Optional or required background checks for tradespeople to increase trust.

**7.2 Verification Badges:** Badges for verified tradespeople to enhance credibility.

## 8. Mobile-Friendly Design:

**8.1 Responsive Design:** Ensure the website is mobile-friendly, allowing users to access the platform on smartphones and tablets.

**8.2 Mobile App:** Consider developing a mobile app for even more convenient access.

# 4. Project Scope

## Functional Requirements

- **User Registration and Authentication:** Allow users to create accounts, log in, and manage their profiles.
- **Profile Management:** Enable tradespeople to create and update their profiles, including skills, availability, and contact information.
- **Search and Filtering:** Provide search functionality to help customers find tradespeople based on location, skills, and ratings.
- **Booking System:** Implement a booking system for customers to schedule appointments with tradespeople.
- **Payment Integration:** Integrate a payment gateway for secure transactions.

- **Review and Rating System:** Allow customers to leave reviews and ratings for tradespeople.
- **Messaging System:** Enable real-time messaging between customers and tradespeople.

## Non-Functional Requirements

- **Scalability:** Design the system to handle a growing number of users and transactions.
- **Security:** Ensure the platform is secure from data breaches and other security threats.
- **Performance:** Optimize the platform for fast load times and responsive performance.
- **Usability:** Focus on user-friendly design principles to ensure a positive user experience.

## 5. Deliverables

- **Project Plan:** Detailed project plan outlining tasks, milestones, and deadlines.
- **Requirements Document:** Comprehensive list of functional and non-functional requirements.
- **Design Documentation:** Wireframes, mockups, and design specifications for the website.
- **Developed Website:** Fully functional website with all specified features.
- **Testing Documentation:** Test plans, test cases, and test reports.
- **Deployment:** Deployed website on a production server with necessary configurations.
- **User Documentation:** User manuals and help guides.

## 6. Timeline

Phase	Task	Duration
Initiation	Project Proposal	1 week
Planning	Project Plan and Requirements	2 weeks
Design	UI/UX Design	1 week
Development	Backend and Frontend Development	5 weeks
Testing	Testing and Bug Fixing	1 week
Deployment	Deployment and Launch	2 weeks
Maintenance	Ongoing Support	Continuous

## 7. Resources Required

### Personnel

- **Project Manager:** Oversees project progress and coordinates between teams.
- **UI/UX Designer:** Designs user interface and experience.
- **Frontend Developer:** Implements the frontend using HTML, CSS, and JavaScript.
- **Backend Developer:** Implements the backend using Python and Django.
- **Database Administrator:** Manages the database.
- **QA Tester:** Tests the application for bugs and issues.

### Tools and Technologies

- **Development Tools:** Python, Django, HTML, CSS, JavaScript, Bootstrap
- **Database:** PostgreSQL or MySQL
- **Version Control:** Git and GitHub (<https://github.com/helozen>)
- **Project Management:** Trello or Jira

- **Communication:** Slack or Microsoft Teams
- **Design Tools:** Figma or Adobe XD

## 8. Budget

Item	Cost Estimate BDT
Development	2,000
Design	500
Testing	500
Deployment	300
Maintenance	200/Month
Miscellaneous	200
Total	3,700

## 9. Risk Management

- **Scope Creep:** Clearly define project scope and requirements and manage changes through a formal change control process.
- **Technical Challenges:** Conduct thorough research and prototype complex features before full implementation.
- **Resource Availability:** Ensure resource allocation and have backup resources ready.
- **Security Threats:** Implement robust security measures and conduct regular security audits.

## 10. Conclusion

This project aims to create a robust, user-friendly platform that bridges the gap between tradespeople and customers. By leveraging modern web technologies and design principles, the Local Traders Community will offer a valuable service to communities, making it easier to find and hire skilled tradespeople.

Flowchart is made by the  
help of a website called

[www.plantuml.com](http://www.plantuml.com)

