Sri Lanka Institute of Information Technology



IT 2080 – IT Project Assignment 1 – Project Proposal

Group: ITP_Group07.02_C158

AnyHire – Part Time Job Platform

B.Sc. (Hons) in Information Technology

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Project Title: AnyHire – Part Time Job Platform

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1. Background

AnyHire.lk is a platform for freelancers to connect part time jobs anywhere in Sri Lanka while promoting job opportunities for young community.

This platform is designed to bridge the gap between job seekers and employers. It offers a location-based solution that simplifies the process of finding work or hiring skilled professionals. It caters to a wide range of users, from part-time job seeking students, to experienced professionals seeking freelance opportunities. The platform enables job seekers to showcase their skills, qualifications, and portfolios, while employers can post job openings and search for candidates who match their requirements. This two-way interaction makes sure that both parties can connect efficiently, saving time and effort in the hiring process.

One of the standouts features of this platform is its emphasis on trust and security. The system incorporates admin verification, which means that both workers and employers are vetted before they can fully participate. Additionally, real-time worker tracking allows employers to monitor the progress of hired professionals, guaranteeing transparency and accountability. Proof of payment uploads allow both parties to confirm that financial transactions have been completed successfully. These features create a secure environment where users can confidently engage in professional relationships.

The platform offers significant benefits to both workers and employers. For workers, it provides access to flexible job opportunities that can be tailored to their schedules and skill sets, making it easier to find work that fits their needs. For employers, the platform simplifies the hiring process by offering a streamlined way to find yet qualified candidates.

2. Problems and Motivation

2. 1 Problems

Sri Lanka has a high underemployment rate, with many skilled individuals struggling to find jobs that match their qualifications. Traditional job-hunting methods are often inefficient, making it hard for job seekers to connect with the right employers. This is especially true for university students looking for flexible, part-time work that fits their schedules and is close to campus. Right now, most people rely on scattered online job boards, word-of-mouth, or even physical postings, none of which offer proper location-based filtering. As a result, both job seekers and employers waste time, struggle to find the right match, and miss out on opportunities.

Employers also face difficulties in finding reliable workers, especially when they're unfamiliar with the area. Without a centralized platform, the hiring process becomes slow and uncertain. On top of that, verifying worker credentials, ensuring secure payments, and tracking job progress add extra challenges for both parties. This app solves these problems by offering a location-based job platform with built-in verification, secure payments, and tracking features—making the hiring process smoother, faster, and more reliable for everyone.

Summarized

• Inefficient Worker Search

 Finding reliable workers (e.g., plumbers, laborers) is timeconsuming and uncertain, especially for people unfamiliar with an area

• Current Process Issues:

- Relies on scattered online platforms, word-of-mouth, or physical job boards.
- Lacks location-based filtering, worker verification, and streamlined communication.

• Impact on Clients:

- Wasted time and risk of hiring unreliable workers.
- Example: A newcomer needing a plumber struggles to find a qualified local option.

• Student Challenges:

- University students lack access to flexible, nearby part-time jobs fitting their schedules.
- o Limited opportunities to earn extra income.

• Gaps in Existing Solutions:

 Platforms like Indeed or Freelancer focus on long-term jobs or freelancing, not hyper-local, task-specific needs or student constraints.

• The ability to find labor power for small jobs

Ex:- Fish tank cleaning gardening

2.2 Motivation

The application is designed to revolutionize Sri Lanka's labor market by creating a seamless, efficient, and inclusive platform for connecting workers and employers. By addressing the inefficiencies of traditional job search methods, it empowers skilled workers, students, and employers to achieve their goals. For workers, especially students, it opens doors to flexible, part-time job opportunities that fit their schedules and locations, enabling them to earn extra income and gain valuable experience. For employers, it simplifies the hiring process by providing verified, local workers for small, task-specific jobs like fish tank cleaning or gardening, saving time and reducing risks.

This platform fosters trust and transparency through features like worker verification, real-time tracking, and secure payment mechanisms, ensuring a reliable experience for both parties. By bridging the gap between job seekers and employers, the application not only enhances economic opportunities but also promotes inclusivity and efficiency in the labor market. It is a

transformative solution that benefits individuals, businesses, and the broader community, making it a vital tool for Sri Lanka's workforce.

Summarized Motivation Points

1. Empowers Workers:

- Provides flexible, part-time job opportunities for students and skilled workers.
- Enables earning extra income and gaining work experience.

2. Simplifies Hiring for Employers:

- o Offers verified local workers for small, task-specific jobs.
- Saves time and reduces hiring risks.

3. Builds Trust and Transparency:

- Features like worker verification, real-time tracking, and secure payments ensure reliability.
- o Real-time job status updates improve communication and trust.
- Worker profiles with qualifications, sample work, and reviews ensure transparency and trust.

4. Promotes Inclusivity and Efficiency:

- o Bridges the gap between job seekers and employers.
- o Enhances economic opportunities for individuals and businesses.

5. Transforms the Labor Market:

 Creates a more efficient, inclusive, and accessible system for Sri Lanka's workforce.

6. Benefits for Students:

- Access to nearby, flexible part-time jobs tailored to their schedules and skills.
- o Opportunity to earn extra income without academic conflicts.
- o Reduced travel time and costs due to local job matching.

3. Aim and Objectives

3.1 Aim

To develop and implement a comprehensive web application that connects individuals seeking workers for small, task-specific jobs (e.g., plumbing, gardening, cleaning) with skilled or semi-skilled workers, particularly university students looking for part-time opportunities. The platform will leverage location-based filtering, real-time tracking, and transparent verification mechanisms to ensure reliability, efficiency, and trust for both workers and employers. By providing a centralized, user-friendly platform, the system aims to streamline the hiring process, empower students to earn extra income, and simplify the search for reliable workers in unfamiliar areas.

3.2 Objectives

1. Efficient Worker-Employer Matching:

- Enable users to find workers or jobs based on their nearest location.
- Provide advanced search and filter options for specific job categories (e.g., plumbing, cleaning, gardening).

2. Student-Centric Part-Time Job Opportunities:

- Encourage university students to find flexible, part-time jobs that fit their schedules and proximity to campus.
- Allow students to showcase their skills, qualifications, and portfolios to attract potential employers.

3. Job Posting and Approval System:

- Allow users to post jobs outside predefined categories, which will be manually verified and approved by admins.
- Display job status (e.g., pending, approved, completed) for transparency.

4. Worker Profile Management:

- Enable workers to create detailed profiles with qualifications, sample work, and portfolios.
- Allow employers to review worker profiles to ensure reliability and quality.

5. Real-Time Location Tracking:

 Provide real-time location tracking of workers through an integrated map for employers to monitor progress.

6. Secure Payment System:

- Facilitate advance payments with proof-of-payment uploads (e.g., screenshots, payment slips) for transparency.
- Ensure secure financial transactions between employers and workers.

7. Admin Verification and Oversight:

- Implement manual verification of job posts and worker profiles by admins to ensure authenticity and reliability.
- Monitor and manage user activity to maintain platform integrity.

8. User Alerts and Notifications:

 Notify users about job approvals, worker arrivals, payment confirmations, and other important updates.

9. Feedback and Rating System:

 Allow employers and workers to rate and review each other to build trust and improve service quality.

10. Analytics and Reporting:

- Generate reports on job postings, worker performance, and user activity to help improve platform efficiency.
- Provide insights into popular job categories, user engagement, and earnings for workers.

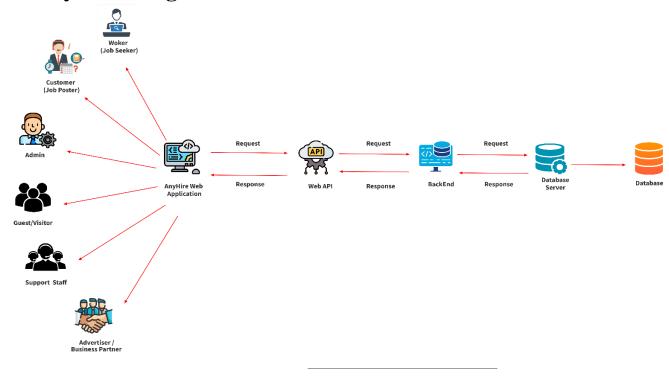
4. System Overview

The platform is a location-based web application designed to connect individuals seeking workers for small, task-specific jobs (e.g., plumbing, cleaning, gardening) with skilled or semi-skilled workers, particularly university students looking for part-time opportunities. The system is divided into 8 key components: User Management, Job Posting Management, Worker Profile Management, Job Approval Management, Payment Management, Real-Time Tracking, Notification Management, and Admin Management.

The front end provides an intuitive user interface for workers, employers, and admins. The Web API, built using REST API and Express.js, connects the front end to the back end, which is developed using Node.js. Data is stored in MongoDB (JobConnect Database), and the system is hosted on cloud infrastructure (e.g., AWS, Azure) for scalability and reliability.

Key features include location-based job matching, real-time worker tracking, secure payments, admin-verified job posts, and flexible part-time opportunities for students. The platform ensures transparency and trust through worker verification, proof-of-payment uploads, and feedback mechanisms.

4.1 System Diagram



4.2 Functional Requirements

1. User Management

- 1. User Registration:
 - Allow users (workers, employers, and admins) to register with basic details like name, email, phone number, and role.
- 2. User Login/Logout:
 - Enable users to log in and log out securely using email/phone and password.
- 3. Role-Based Access Control:
 - o Provide different access levels for workers, employers, and admins.
- 4. Profile Management:
 - Allow users to create, update, and view their profiles.
- 5. Worker Profile Management
 - Allow workers to create profiles with qualifications, skills, portfolios, and sample work.
- 6. User Activity Monitoring:
 - o Allow admins to monitor and manage user activity on the platform.
- 7. User authentication

2. Job Management

- 1. Posting a Job:
 - Enable employers to post jobs with details like job titles, description, location, and payment.
- 2. Search and Filter Jobs:
 - Allow workers to search and filter jobs based on location, category, and payment.
- 3. Manual Job Verification:
 - Allow admins to manually verify and approve job posts before they go live.

4. Job Status Tracking:

 Display job status (e.g., pending, approved, completed) for transparency.

5. Job Post Verification:

- Enable admins to verify and approve job posts manually.
- 6. Category management

3. Payment Management

- 1. Advance Payment:
 - Enable employers to make advance payments for jobs.
- 2. Proof-of-Payment Upload:
 - Allow employers to upload proof of payment (e.g., screenshots, payment slips).
- 3. Payment History:
 - Provide a record of all transactions for both workers and employers.

4. Real-Time Tracking

- 1. Location Tracking:
 - Provide real-time location tracking of workers through an integrated map.
- 2. Job Progress Monitoring:
 - o Allow employers to monitor the progress of the job in real time.

5. Notification Management

- 1. Job Alerts:
 - Notify workers about new job opportunities matching their skills and location.
- 2. Payment Notifications:

Send alerts for payment confirmations and receipts.

3. Job Status Updates:

 Notify employers and workers about job status changes (e.g., approved, completed).

6. Analytics and Reporting

- 1. Job Performance Reports:
 - Generate reports on job postings, worker performance, and earnings.
- 2. User Engagement Insights:
 - Provide insights into popular job categories and user engagement metrics.

7. Feedback and Rating System

- 1. Rate and Review:
 - Allow employers and workers to rate and review each other after job completion.
- 2. View Ratings:
 - Enable users to view ratings and reviews before hiring or accepting jobs.

8. Contact Support (Chatbot)

- 1. Chatbot Integration:
 - Integrate a chatbot to provide instant support for user queries.
- 2. Frequently Asked Questions (FAQs):
 - Allow the chatbot to answer common questions about job posting, payments, and platform usage.
- 3. Live Agent Handoff:
 - Enable the chatbot to transfer complex queries to a live support agent.

9. Booking Management

1. Job Booking:

 Allow employers to book workers for specific jobs directly through the platform.

2. Booking Confirmation:

 Send confirmation notifications to both employers and workers upon successful booking.

3. Reschedule or Cancel Booking:

 Enable employers to reschedule or cancel bookings with proper notifications to workers.

4. Booking History:

Maintain a record of all bookings for employers and workers.

5. Calendar Integration:

 Provide a calendar view for workers and employers to manage bookings and schedules.

6. Reminders and Notifications:

Send reminders for upcoming bookings to both parties.

7. Job Cart

10.Customer Support (Human Support)

- 1. Support Ticket System:
 - Allow users to raise support tickets for issues that cannot be resolved by the chatbot.

2. Ticket Tracking:

o Enable users to track the status of their support tickets.

3. Live Chat with Support Agents:

 Provide a live chat feature for real-time assistance from customer support agents.

4. Email Support:

Allow users to contact support via email for non-urgent queries.

5. Feedback on Support:

 Allow users to rate and provide feedback on the quality of customer support.

4.3 Non-Functional Requirements

1. Performance

1. Response Time:

 The system should respond to user actions (e.g., loading a page, searching for jobs) within 2-3 seconds to ensure smooth user experience.

2. Scalability:

 The platform should handle up to 10,000 concurrent users and scale seamlessly as the user base grows.

3. Load Handling:

• The system should support up to 100,000 daily active users without performance degradation.

2. Usability

1. User-Friendly Interface:

 The platform should have an intuitive and easy-to-navigate interface suitable for both tech-savvy and non-tech-savvy users.

2. Accessibility:

 The system should comply with WCAG 2.1 standards to ensure accessibility for users with disabilities.

3. Multi-Device Compatibility:

 The platform should be fully functional on desktops, tablets, and mobile devices.

3. Reliability

- 1. Data Integrity:
 - Ensure data consistency and accuracy across all transactions and operations.

4. Security

- 1. Data Encryption:
 - o All sensitive data should be encrypted using AES-256 or higher.
- 2. Authentication and Authorization:
 - Implement secure login mechanisms (e.g., OAuth, JWT) and rolebased access control.
- 3. Prevention of Unauthorized Access:

5. Maintainability

- 1. Documentation:
 - Provide comprehensive documentation for developers, including API documentation and user manuals.
- 2. Version Control:
 - Use version control systems (e.g., Git) to manage code changes and updates.

6. Compatibility

- 1. Browser Compatibility:
- 2. Operating System Compatibility:
 - Ensure compatibility with major operating systems (e.g., Windows, macOS, Linux, iOS, Android).

7. Availability

1. Backup and Recovery:

 Implement automated daily backups and a disaster recovery plan to ensure data availability.

2. Redundancy:

 Use redundant servers and databases to minimize downtime in case of hardware failure.

8. Extensibility

1. API Integration:

 Provide APIs for future integrations with third-party services (e.g:mapping)

2. Customizable Features:

 Allow for easy addition of new features or modules as the platform evolves

5. Literature Review

5.1 TopJobs

TopJobs is a Sri Lankan online job portal that aggregates employment opportunities for job seekers, including part-time roles.

- Pros: Provides basic job management by listing opportunities with descriptions and application processes, and management features allow employers to post vacancies [1]. It supports students by including part-time job listings accessible via a web interface. [2]
- Cons: Lacks real-time location tracking, notification management, and booking management, focusing on traditional job applications rather than immediate, location-based hiring. [1] Contact support is limited to email without a chatbot, and there's no system for tracking job statuses or worker availability in real-time. Does not cater to local workers or students specifically. [2]

5.2 PickMe

PickMe is a Sri Lankan ride-hailing and delivery platform that connects users with drivers and service providers using mobile technology.

- Pros: Excels in booking management and real-time location tracking via GPS. These features allow users to schedule rides or deliveries, and to monitor driver location. [3] Notification management sends alerts for booking confirmations and updates. The platform's management features include driver verification. These features improve reliability and efficiency. [4]
- Cons: Focuses narrowly on transportation and delivery, and lacks a wider range of job management. [3] It does not offer a chatbot for contact support and relies only on manual customer service, resulting in delayed responses. There's no specific support for university students seeking part-time work, and custom job postings are not supported. [4]

5.3 TaskRabbit

TaskRabbit is an American online marketplace that connects clients with local freelancers ("Taskers") for a variety of tasks, such as cleaning, furniture assembly, and moving.

- Pros: Offers strong job management with a wide range of task categories and booking management for scheduling Tasker services. [5] Notification management provides updates on task status, and management features include Tasker profiles with ratings and background checks for trust. [5] Supports flexible, part-time work that can appeal to students. [2]
- Cons: Lacks real-time location tracking during task execution (e.g., no live ETA for Tasker arrival) and does not include a chatbot for instant contact support, relying on in-app messaging or manual support. [5]
 While suitable for gig work, it does not specifically target university students' scheduling needs or allow admin-verified custom job postings beyond predefined categories. [2]

5.4 Uber

Uber is a global ride and gig-work platform that connects clients with drivers and other service providers (e.g., Uber Eats).

- Pros: Offers real-time location tracking, that helps users track driver locations, and strong notification management for booking updates and confirmations. [6] Booking management allows flexible scheduling, Management features include worker profiles with ratings for trust. [2] Its gig model supports part-time work, appealing to some students.
- Cons: Primarily serves hired rides and food delivery, limiting job management to predefined categories without options for custom tasks like home repairs [6]. Contact support does not have an integrated chatbot, and relies only on email or phone support, which can be slow. [4] Student drivers can work under the platform, but there's no tailored focus on university students' or local workers beyond transportation. [2]

6. Methodology

6.1 Agile Software Development

The project follows an Agile methodology with iterative development and continuous feedback. The development process is divided into sprints, allowing incremental improvements and quick adaptation to changes.

1. Requirements Engineering Methods

- Gather requirements through surveys and stakeholder interviews.
- Define functional and non-functional requirements.
- Maintain a product backlog for continuous updates.

2. Design Methods

- Use wireframing and prototyping for UI/UX design.
- Develop system architecture and database schema before implementation.

3. Development Tools and Technologies

- Frontend: React.js for a dynamic user interface.
- Backend: Node.js with Express.js for API development.
- **Database**: MongoDB for flexible data storage.
- **Authentication**: JWT for secure access control.
- **Version Control**: Git & GitHub for collaborative development.

4. Testing Methods

- Unit testing for individual components.
- Integration testing to ensure module compatibility.
- User acceptance testing (UAT) for feedback-driven improvements.

5. Integration Methods

- Continuous integration and deployment (CI/CD) pipeline.
- API testing for smooth interaction between frontend and backend.
- Third-party integration for location tracking.

6.2 Reasons for selecting Agile Methodology

Customer satisfaction:

Agile methodology focuses on delivering value to the customer quickly and continuously. This helps to ensure that the product meets the customer's needs and is delivered on time.

• Flexibility:

Agile methodology is highly adaptable to changing requirements and priorities. This allows teams to respond quickly to changes in the project scope or market conditions.

Collaboration:

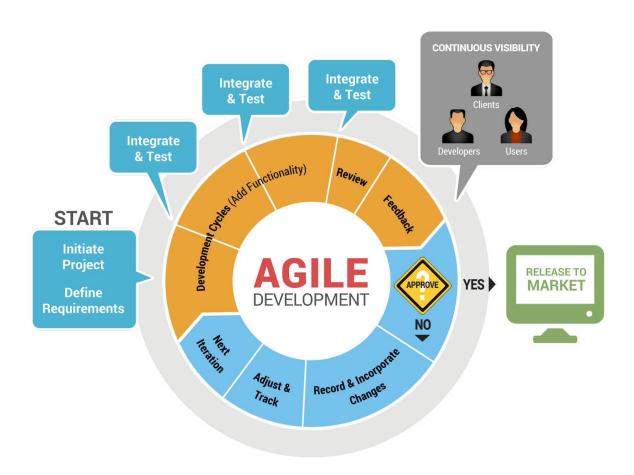
Agile methodology emphasizes teamwork, communication, and collaboration between team members. This helps to promote a sense of shared ownership and accountability and can lead to better solutions.

Transparency:

Agile methodology encourages open communication and transparency throughout the development process. This helps to build trust between team members and stakeholders and ensures that everyone is working towards the same goals.

• Continuous improvement:

Agile methodology emphasizes continuous learning and improvement. This helps to ensure that the team is constantly refining its processes and practices and is always striving to deliver better results.



6.3 Tools and Technologies

The MERN stack (MongoDB, Express.js, React.js, Node.js) is a full-stack JavaScript framework for building scalable, real-time web applications with a consistent language across frontend and backend.



MongoDB:



- A no SQL database that stores data in flexible, JSON-like document.
- o Ideal for handling unstructured or semi-structured data.



Node.js

- o A runtime environment for executing JavaScript on the server.
- o Enable scalable, event driven backend development.



React.js:

- A frontend JavaScript library for building user interfaces.
- o Enables dynamic, component-based UIs with high performance



Express.js:

- A backend web framework for Node.js
- o Simplifies building APIs and handling server-side logic.

Apart from MERN Stack we use the following tools in our project.









6.4 Work Breakdown Structure

IT Number	Student Name	Work Allocated	Sub Parts
IT23203280	Malsen N.G.T	User Management	 User Registration User Sign in /Sign out Role – Based Access Control Profile Management Worker Profile Management User Activity Monitoring Authentication Admin profile
IT23208780	Waidyarathne D.A.V.P	Contact Support	 Contact page Chatbot Integration Inquiry Form Rate and review View Rating Live chat & agent handling Ticket Tracking Feedback and support
IT23252622	Bandara H.M.T	Job Management	 Posting a job Search and Filter Jobs Manual Job Verification Job Status Tracking Category Management Location and navigation
IT23243958	Bandara R.M.M.G.G.T.R	Booking Management	 Job Booking Booking Confirmation Reschedule or cancel Booking Booking History Reminder and notification Cart Handling Job Status Tracking Location and navigation
IT23293076	D.S.T.W.Dassanyake	Payment management and Reward System	 Payment Management Payment Notification Payment Verification Report Generation
All	All	Notification System	NotificationsGamification

7. Evaluation Method

The Online Part-Time Job Management System will be evaluated through several methods to ensure its reliability, effectiveness, and efficiency.

7.1 User Feedback & Surveys

The platform should include an in-app survey system which allows users
to provide ratings and submit feedback assessments for both workers and
customers. Users should evaluate the platform through surveys that
measure perception of platform usability and job matching precision
alongside the quality of work received.

7.2 Engagement Metrics

• Track new user registrations to determine how well the platform brings in fresh members. Monitor the posting frequency of jobs together with application numbers from users. Check the number of job advertisements which lead to successful candidate selections.

7.2 Success Rate of Job Matching

 Check which percentage of job advertisements result in new employees being chosen for positions. The duration between the job postdates and when the worker accepts the position should be measured. Address bottlenecks by discovering the cause when job positions remain unfilled for an extended period.

7.3 Worker and Customer Ratings & Reviews

• Users should have the ability to evaluate workers followed by completion of their tasks. The overall rating system assists with maintaining consistent performance quality among workers. Staff members need a system that recognizes synthetic assessments and biased score submissions. A system of employee ratings should serve as a performance metric because workers with repeatedly negative ratings could need examination or removal from the workplace.

7.4 Admin Approval Efficiency

Record the duration it takes for administrative staff to validate new job
opportunities that come from non-designated categories. Search for
delays and establish an efficient approval management method whenever
possible. The customer should receive specific reasons for job rejections
in addition to alternative solutions.

7.5 Location-Based Effectiveness

 The user success in finding workers within their nearby area should be verified through tests. Implement marketing efforts in areas with low worker availability to attract more worker sign-ups. Evaluate the locationmatching system precision through measurement of worker travel distances when they take assignments.

7.6 Platform Performance & Technical Evaluation

 The system uptime percentage must always exceed 99%. pages and job searches must be monitored for performance because code and database optimizations need to occur when they are slow. Fix the bugs and crashes which degrade user experience immediately. Verify that the platform functions without issues between mobile phones, tablets and desktop computers.

7.7 Project plan (Gantt chart)

						Ga	antt (Chart					
	Any Llino	Hiro 2025											
	Any Hire	5 Feb	18 Feb	25 Feb	4 Mar	11 Mar	18 Mar	25 Mar	1 Apr	8 Apr	15 Apr	22 Apr	29 Apr
	System	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Requirement gathering												
	Planing												
	Project Proposal												
co.	UI Design												
SK.	Database Design												
Tasks	Implementation												
	Integration												
	Testing												
	Deployment												

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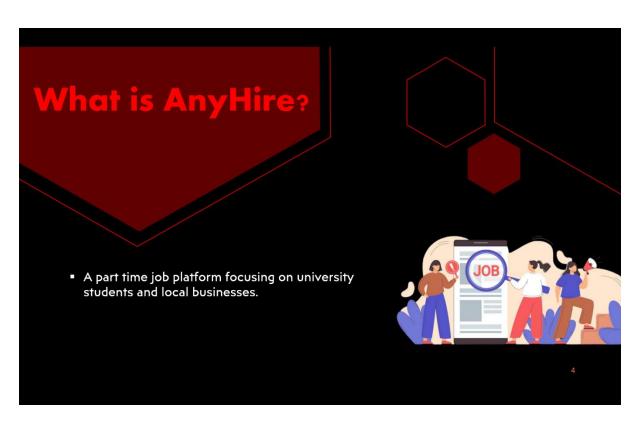
9. Appendix

9.1 Project Proposal Presentation









Problem and Motivation

- Inefficient Worker Search
- Current Process Issues
- Impact on Clients
- Student Challenges
- Gaps in Existing Solutions
- The ability to find labor power for small jobs



5

Aim & Objectives

- Purpose: Develop a web application that connects individuals needing task-specific jobs (e.g., plumbing, gardening, cleaning) with skilled or semi-skilled workers.
- Targetting Users: Homeowners, businesses, and university students seeking part-time work.

6

