<Ayimbre Faustina>

Web Tech Summer 2025 Final Exams

Ayimbre Faustina is developing a Community Rental Platform that enables users to rent out unused items ("Owners") to others who need them temporarily ("Renters"). It provides a secure environment with user profiles, item management, transaction tracking (Rentals), and messaging.

Project Title

PERSONA(s)
Emma Chen 30 year old homeowner
She has used items and wants a hassle0free way to earn from them. She needs guaranteed trust, damage protection and automated logisticswithout it becoming a second job.

Leo Torres 20 year old enthusiant
He prefers renting over buying expensive items for short-term projects. He needs to find available, affordable gear near him with a simple , reliable pickup and process. His complaint is, "I don't want to buy a $200 pressure washer just to clean my driveway once".
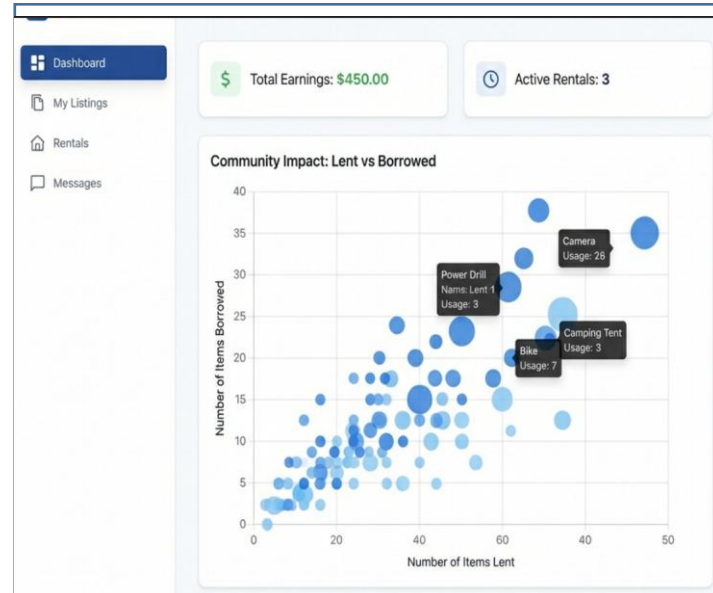
PROBLEM
Item Owner
Useful items sit idle for long periods resulting in lost icome potential. Renting to strangers feels risky due to possible damage, loss, late return or non-payment.

Renter
Purchasing items for temporary or one-time use is financially wasteful. Some items are too expensive or impractical to own for occasional needs. Informal borrowing involves uncertainty about item quality , honesty of owners and lack of dispute resolution.

PAYOFF: *What is a simple drawn screen that is illustrative of something the website shows that helps solve the problem. It is likely a report or some results of data entered by the participants.* **This is the most important square**

FINISH*: Why are the users better off with the website than before.*

1. *Monetize Idle Assets*
- *Items that sat unused now have income, turning sunk costs into valuable assets.*

2. *Affordable, trusted Access*
- *Renters save money by renting instead of buying with a secure platform that removes risk and awkward informal borrowing.*

User / Customer

- *Business: community rental platform*

- *Services: a platform where one can lend or rent out their items at a cost*

  Users

- *Lender/owner: list out their items at cost per day to earn income*

- *Renter: borrows items for temporary use to save money and reduce waste.*

Main Functions of the Website

- Item Listing and Management: owners can easily upload item details, images, and set daily prices.

- Secure Rental Booking system: facilities rental agreements, calculates total cost, and manages bookings.

- User dashboard and analytics: Provides users with real-time insights into their active rentals, items listed, and total earnings.

- Search and Discovery enables renters to efficiently find available items based on their needs and budgets

ASHESI

Architecture

1. Presentation tier(HTML5, CSS3, JavaScript)

- Standard web technologies across all modern browsers.

2. Application Tier(PHP)

- Handles logic and is ideal for rapid development of dynamic web applications.

3. Data Tier(MySQL)

- Stores persistent data and is reliable and open source, which pairs perfectly with PHP

Other Technologies

- XAMPP: local development

- GitHub: version control for tracking changes and code management.