

CampusKart a Student MarketPlace

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Abstract - CampusKart is a student-centric digital marketplace designed to simplify the exchange of goods and services within university campuses. Students often face challenges such as limited budgets, short-term product needs, and the absence of a trusted platform to trade with other students. CampusKart addresses these issues by providing a hyperlocal ecosystem where verified students can buy, sell, rent, donate, or exchange items within their campus community. The platform is developed using PHP and MySQL and integrates intelligent features such as AI-based price recommendations, automated product description generation, and a chatbot assistant to support users. It also includes secure authentication, reputation scoring, geolocation-based discovery, and an admin management system to maintain trust and platform quality. By encouraging resource sharing and peer-to-peer interaction, CampusKart aims to create an affordable, sustainable, and collaborative marketplace environment for students.

Keywords : Campus Marketplace, Student Economy, Hyperlocal Trading, PHP, MySQL, AI Integration, Barter System, Rental Marketplace, Geolocation Services, Reputation System.

1. INTRODUCTION

The growth of digital technology has changed the way people buy, sell, and exchange goods and services. However, most online marketplaces are designed for large commercial audiences and do not specifically address the needs of university students. Students often require affordable products, short-term rentals, and reliable services **within their campus** community.

Many useful items such as books, lab equipment, and

electronics remain unused after a semester, while students with valuable skills often lack a platform to offer their services locally.

CampusKart is designed as a hyperlocal marketplace specifically for students, where they can buy, sell, rent, donate, or exchange products

with verified users from their own campus or nearby colleges. Developed using PHP and MySQL, the platform integrates features such as secure authentication, AI-assisted price suggestions, automated product descriptions, and location-based discovery. The main goal of CampusKart is to create a sustainable and affordable ecosystem that encourages resource sharing, reduces waste, and supports collaboration among students.

2. PROBLEM STATEMENT

Students often face difficulty in finding affordable products and reliable services within their campus environment. Most existing e-commerce platforms are designed for a wide public audience and do not focus on the specific needs of students. As a result, students struggle to buy or sell second-hand items such as books, lab equipment, electronics, or daily-use products within their own college community. Many items remain unused after a semester, which leads to unnecessary waste of resources and money.

In addition, there is no dedicated platform where students can easily rent items for a short period, exchange goods, donate unused products, or offer their skills and services to other students. The absence of a secure, campus-focused marketplace also creates trust issues and limits safe interactions between buyers and sellers. Therefore, there is a need for a smart and secure platform like CampusKart that

enables students to trade products, share resources, and offer services within a trusted campus ecosystem.

3. System Architecture



4. METHODOLOGY

The development of CampusKart follows a structured approach that focuses on designing a reliable and user-friendly campus marketplace platform. The first step involves analyzing the needs of students and identifying common problems such as difficulty in finding affordable products, short-term rentals, and trusted campus services. Based on these requirements, the system design is planned with different modules including authentication, marketplace management, service listings, and security mechanisms.

After the design phase, the platform is implemented using **PHP for backend development and MySQL for database management**. Various modules such as product listing, renting, exchanging, and service marketplaces are developed and integrated into the system. Additional features like email verification, AI-based assistance, geolocation services, and reputation scoring are incorporated to enhance functionality and security. Finally, the system is tested to ensure proper performance, data security, and smooth user interaction before deployment.

5. Graph of Result Analysis

Since CampusKart is currently in the development phase and not yet deployed in a real environment, the result analysis is based on a **survey conducted among 30 students** from the college. The objective of this survey was to understand user interest, feature preference, and expected usage behavior of the platform.

Data Collection Method

A simple questionnaire was created using **Google Forms**, where students were asked about:

- Preferred marketplace activity (Selling, Renting, Exchange)
- Interest in using campus-based platforms
- Willingness to use AI features

The responses were automatically recorded and exported for analysis.

Sample Survey Result (Feature Preference)

Feature Percentage

Selling	50%
Renting	30%
Exchange	20%

The graphical analysis of survey data was performed using **Python with the Matplotlib library**. It is a widely used tool for data visualization that allows easy creation of charts and graphs. The survey data was manually defined in the code and converted into a bar chart to represent feature preferences clearly. The tool was selected because it is simple, flexible, and effective for visual representation of data.

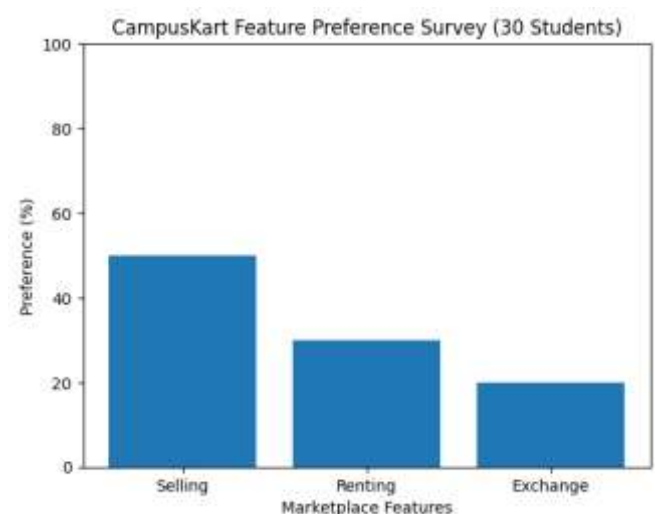


Fig: Graph result analysis

6. CONCLUSIONS

CampusKart is designed as a smart and student-focused marketplace that enables students to buy, sell, rent, donate, and exchange products within their campus community. The platform helps solve common problems faced by students such as limited budgets, unused resources, and the lack of a trusted

environment for campus-level transactions. By providing a hyperlocal system, CampusKart improves accessibility and encourages direct interaction among students. The system integrates modern technologies such as secure authentication, AI-assisted features, geolocation services, and reputation-based trust mechanisms to ensure reliability and user satisfaction. Overall, CampusKart promotes resource sharing, reduces waste, and creates opportunities for students to collaborate, trade, and offer services within a safe and organized digital ecosystem.

7. REFERENCES

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