

Internet Programming (Sessional) [CSE-326]



Proposal Report on:

CUET Trade & Lost-Found Portal

Group No: 11

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Objectives

The primary objective of our web application, **CUET Trade & Lost-Found Portal**, is to create a user-friendly, secure, and scalable platform where CUET students can seamlessly buy and sell custom-designed t-shirts, electronics and accessories, digital subscription and pre-owned items, as well as post about lost and found items. The web platform is designed to:

- Support student entrepreneurs by providing them with an organized online space to promote and manage their business.
- Simplify the purchase process for buyers with an intuitive and structured interface.
- Facilitate a dedicated Lost and Found section where students can report or find lost belongings.
- Ensure data integrity and real-time management of product listings, user profiles, bidding history, and lost item records through an efficient back-end system.

Introduction

CUET Trade & Lost-Found Portal is a university-centric online marketplace designed for the CUET student community. It serves two main purposes: enabling students to buy and sell products and offering a Lost and Found section where students can report missing items or return found ones. The platform is developed with the goal of improving daily campus life by making student-to-student interactions more organized and accessible.

Through our web application, users can manage accounts, upload product or lost item details, communicate with each other, and create listings in a secure and friendly digital environment. This initiative promotes community participation, supports entrepreneurship, and provides a useful tool for the CUET community.

Motivation

In our campus, many students explore small business opportunities, especially selling custom-designed t-shirts and other products. At the same time, there is also a recurring problem: Students often misplace important belongings, such as ID cards, USB drives, or books, without a proper channel to report or recover them.

CUET Trade & Lost-Found Portal aims to solve both of these challenges:

- It provides a structured online marketplace where students can sell and purchase t-shirts and other products in a timely manner.
- It introduces a Lost and Found section exclusive to the CUET community, helping users quickly post about lost items or report found objects.

Our motivation is to make everyday student life easier, more organized, and more connected through a single web platform.

Potential Stakeholders

The following groups are considered key stakeholders for our web application:

- **Student Sellers:** Students who want to promote and manage their businesses.
- **Student Buyers:** Peers looking for custom t-shirts, other products and pre-owned products.
- **Students with Lost or Found Items:** Individuals who want to report lost items or help others recover theirs.
- **CUET Clubs and Event Organizers:** Groups needing custom t-shirts and other products or wanting to help spread the word about lost items.
- **University Administration (Potential):** For future partnerships or integration with campus support services.

Existing Related Work

CUET students currently rely on informal channels like Facebook groups, Messenger, and physical notice boards to buy/sell items or report lost belongings. These methods are unstructured, difficult to search, and not accessible to all.

Mainstream platforms such as **Amazon^[1]**, **Alibaba^[2]**, and **OLX^[3]** offer secure buying and selling experiences, while dedicated lost and found services like **iLost^[4]**, **Foundrop^[5]**, and **ILeftMyStuff^[6]** provide digital solutions for recovering lost items. However, these platforms are either too broad or not designed for university-specific needs.

Our proposed platform addresses this gap by offering:

- A CUET-specific product marketplace for secure, student-to-student transactions.
- A Lost and Found section focused on the campus, improving visibility and recovery rates.

By combining the strengths of global platforms with features customized for CUET, our system provides an organized, accessible, and community-centric solution.

Contribution of the Work

This project introduces a multifunctional web platform that:

- Combines e-commerce functionality with community-focused features like Lost and Found.
- Strengthens student entrepreneurship by enabling product listing, bidding, and direct communication between sellers and buyers.

- Builds a connected CUET community where students can help each other recover important belongings.
- Utilizes modern web development practices and ensures secure access through CUET email verification.

Proposed Features of the Web Application

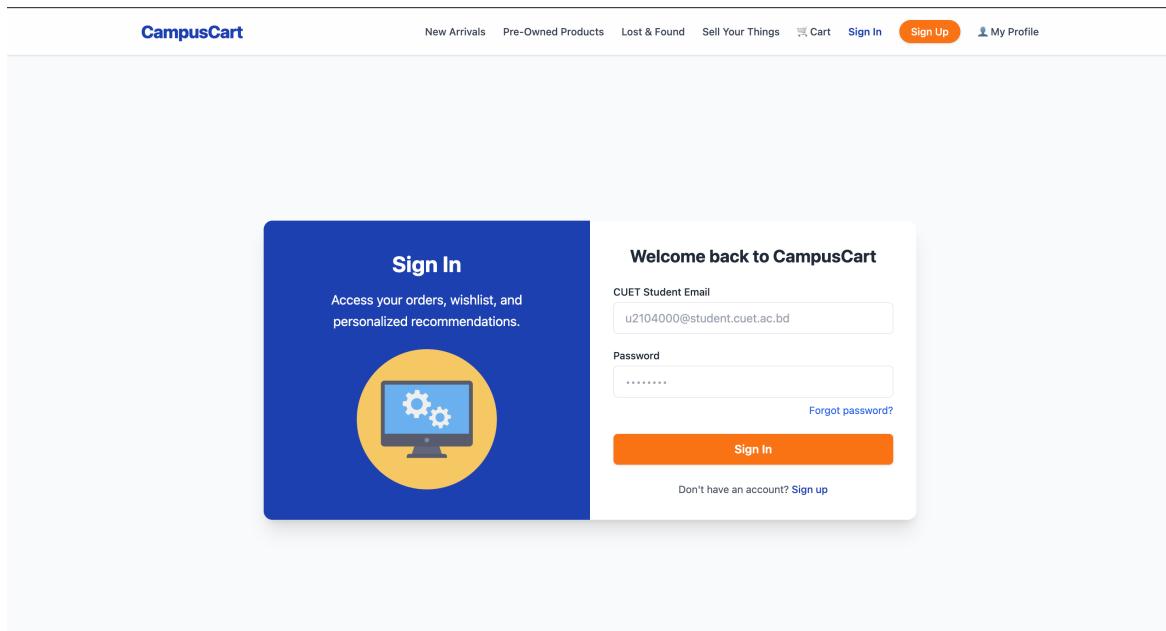
Our web application, **CUET Trade & Lost-Found Portal**, is designed with multiple interconnected features aimed at providing a seamless and enriching user experience for the CUET community. These features focus on two main aspects: a digital marketplace for easier transactions and a community-based Lost and Found system. Below are the key proposed features of the platform:

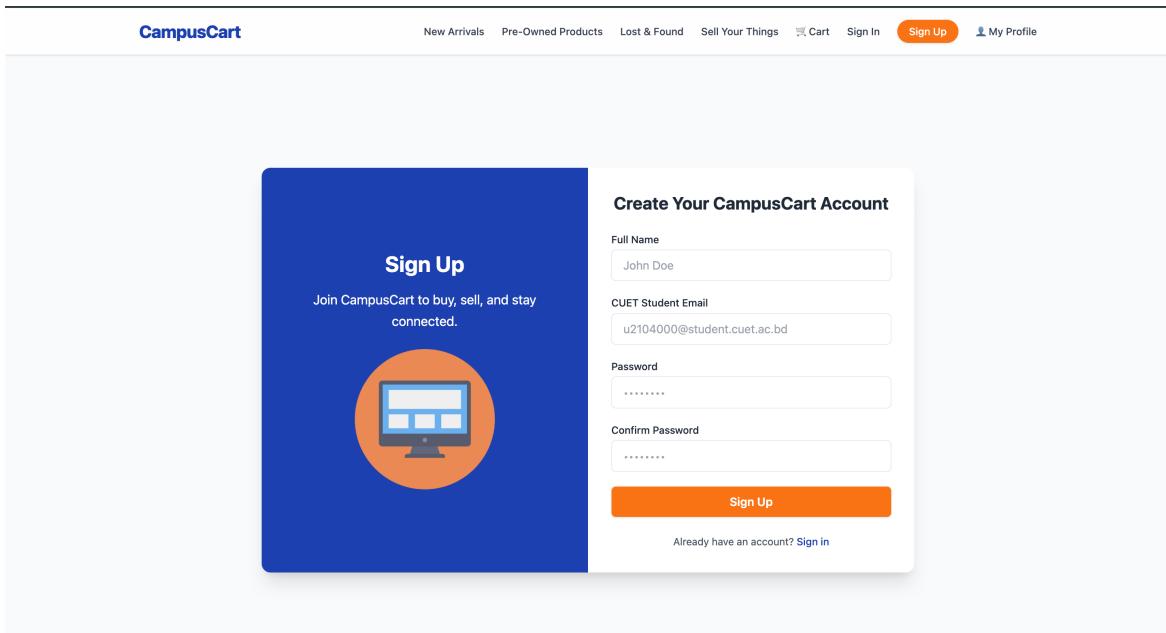
- **User Authentication and Access Control:** To ensure that only verified CUET students can use the platform, all users must register and log in using their institutional email (CUET mail). This creates a secure, closed community where members can interact with confidence, knowing that they are dealing only with their peers.
- **Product Listing and Selling System:** Sellers will have the ability to create listings for their products by providing detailed product information, including title, description, price, quantity, and clear images. This system allows student entrepreneurs to easily showcase their products and manage their inventory within a dedicated seller dashboard.
- **Cart and Order Management:** Buyers can add products to their cart, review their selections, and place orders with ease. The platform will also allow users to view past purchases, track current orders, and receive notifications on order status — ensuring a smooth and transparent purchasing process.
- **Auction-Based Bidding System for Used Products:** One of the unique features of the platform is the ability to sell pre-owned items through a time-bound bidding system. Sellers can set a starting price and a time window for bidding, and buyers can place competitive bids. After the deadline, the item is automatically sold to the highest bidder, encouraging reuse and providing affordable options to students.
- **Lost and Found Section:** This dedicated section enables students to report lost items or post about items they have found on campus. Posts can include item descriptions, date and location of loss/finding, and optional images. Only registered CUET users can view and post in this section, making it a safe and effective tool for helping students recover lost belongings and support each other.
- **Search, Sort, and Filter Functionality:** To enhance the browsing experience, the application offers robust search options, along with filters to sort products by price, recency, popularity, or availability. This allows users to quickly find what they are looking for and explore products in a more personalized way.

- **Direct Messaging and Communication:** Buyers can directly communicate with sellers for custom orders, additional information, or order updates. Similarly, users posting in the Lost and Found section can be contacted directly by others who may have relevant information, creating a more interactive and community-driven environment.
- **Mobile-Responsive and User-Friendly Interface:** The web application is fully responsive and optimized for both desktop and mobile devices. The clean, minimal UI ensures that users can navigate the platform easily, post or browse items effortlessly, and complete transactions smoothly from any device.
- **Admin Panel:** For better platform management, an admin dashboard can be implemented to monitor activities, handle reports or flagged posts, and ensure that the platform remains safe, clean, and well-maintained.

Expected UI Design

Sign in and Sign Up Pages:





Profile and Admin Section:

The screenshot shows the 'My Profile' section of the CampusCart website. At the top, it displays a user profile picture and the name 'Tanvir Ahmed' along with the email 'tanvir@email.com'. Below this, there are three input fields for 'Full Name' (containing 'Tanvir Ahmed'), 'Email' (containing 'tanvir@email.com'), and 'Phone' (containing '+8801712345678'). To the right of these fields is a blue 'Update Profile' button. At the bottom, there are three navigation buttons: an orange 'My Dashboard' button, a blue 'My Orders' button, and a green 'My Bids' button.

Welcome, Admin

Total Users

1,245

Products Listed

582

Active Bids

78

Lost/Found Posts

34

Quick Actions

[Manage Users](#)[Manage Products](#)[View Bids](#)[Moderate Lost & Found](#)[Create Bidding Product](#)[Create Fixed Product](#)

Sell a New Product

Product Title

e.g., New Headphones

Price (Taka)

e.g., 120

Description

Product details...

Category

Select Category

Upload Product Image

Choose file | No file chosen

[Submit Listing](#)

New Products Pages:

CampusCart New Arrivals Pre-Owned Products Lost & Found Sell Your Things Cart Sign In Sign Up My Profile

New Products

Discover the latest additions in fashion, electronics, and subscriptions curated for students.

Search products... Sort by

Fashion

T-Shirt
★★★★★ 4.5/5
\$20

Jeans
★★★★★ 3.5/5
\$45

Jacket
★★★★★ 5.0/5
\$60

Sneakers
★★★★★ 4.0/5
\$80

[View More](#)

CampusCart New Arrivals Pre-Owned Products Lost & Found Sell Your Things Cart Sign In Sign Up My Profile

One Life Graphic T-Shirt
★★★★★ 4.5/5
₺ 260 ₺300 -40%

This graphic t-shirt is perfect for any occasion. Crafted from soft and breathable fabric, it offers superior comfort and timeless style.

Color: ● ● ●

Size: S M L XL

- 1 + Add to Cart

[Buy Now](#)



Pre-owned Products & Sell Pages:

CampusCart New Arrivals Pre-Owned Products Lost & Found Sell Your Things Cart Sign In [Sign Up](#) [My Profile](#)

Bid on Pre-Owned Products

Search products... Sort by ▾



Secondhand Guitar
Current Bid: ₦ 75
Ends in: 6h 10m

[View Details](#)



Drawing Tablet
Current Bid: ₦ 60
Ends in: 3h 05m

[View Details](#)



Used Bicycle
Current Bid: ₦ 140
Ends in: 1h 12m

[View Details](#)



Bluetooth Speaker
Current Bid: ₦ 90
Ends in: 6h 15m

[View Details](#)

[View More](#)

CampusCart New Arrivals Pre-Owned Products Lost & Found Sell Your Things Cart Sign In [Sign Up](#) [My Profile](#)



Used Laptop - Core i5, 8GB RAM
Posted by: John Doe · ID #14592
Good condition laptop, perfect for everyday use. Comes with a charger and bag.

Asking Price: ₦ 350
Current Highest Bid: ₦ 320
⌚ Bidding ends in: 1 hour 12 minutes

Bidding is currently OPEN
You must be logged in to place a bid.

Enter your bid... [Place Bid](#)

[Order Now at ₦ 350](#)

All Bids (Sorted by Price)

Alice bid ₦ 320
✉ alice@example.com

Bob bid ₦ 300
✉ bob@example.com

CampusCart New Arrivals Pre-Owned Products Lost & Found Sell Your Things Cart Sign In [Sign Up](#) [My Profile](#)

Sell a Product

Choose how you'd like to list your item on CampusCart.



Sell a New Product
List a product at a fixed price. Perfect for brand new or unused items.



Sell a Used Product (Bidding)
Start a bidding session. Great for gently used or pre-owned items.

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Lost and Found Section:

CampusCart

New Arrivals Pre-Owned Products Lost & Found Sell Your Things Cart Sign In Sign Up My Profile

🔍 Lost & Found

Report or check for lost and found items on campus. Help reunite belongings with their owners.

Recent Posts

+ Post Lost/Found



Lost Wallet - Black
Found at Cafeteria



CUET Student ID
Lost near Library



Lost Earbuds
Found in EEE Building



Physics Book - 2nd Year
Lost in Room 202

[View More](#)

CampusCart

New Arrivals Pre-Owned Products Lost & Found Sell Your Things Cart Sign In Sign Up My Profile



Lost Wallet - Black
Found at Cafeteria, CUET Campus

This black leather wallet was found near the central cafeteria. It contains a student ID card, some cash, and a library card. If this belongs to you or someone you know, please contact the finder to return it.

Contact Information
Name: Tanvir Ahmed
Phone: +880 17 1234 5678

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References

1. Amazon – <https://www.amazon.com/>
2. Alibaba – <https://www.alibaba.com/>
3. OLX – <https://www.olx.in/>
4. iLost – <https://ilost.co/>
5. Foundrop – <https://www.foundrop.com/>
6. ILeftMyStuff – <https://www.ileftmystuff.com/>