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EduTrade – A Peer-to-Peer Learning & Resource Exchange Platform

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Introduction

EduTrade is a simplified web-based platform designed for university students to share knowledge and exchange academic resources within a campus ecosystem. The system supports peer-to-peer book and tool exchange, allowing students to list educational materials they no longer need, and request items from others. It also features a skill-sharing module where students can create and enroll in informal learning sessions—such as coding help, language practice, or subject-specific tutoring—thereby encouraging collaborative learning and confidence-building. The platform supports basic login-based access for students, tutors (who are also students), and an admin.

Objectives

- To create a student-friendly web portal for exchanging books and tools.
- To enable peer-to-peer skill sharing through simple course creation and enrollment.
- To support a dual-role environment where students can also act as tutors.
- To ensure clean navigation and access control using role-based login.
- To keep the platform lightweight, modular, and easily scalable.

Scope

EduTrade will support three types of users: Students, Tutors (who are students), and Admins. Students can create accounts, login, and access the dashboard. They can post listings for academic resources such as textbooks or lab equipment and browse other students' listings. Additionally, any student can create a course post to share their expertise in areas like coding, public speaking, or subject revision. Other users can enroll in these skill-sharing sessions. Admin users will have access to oversee users and manage posts if necessary.

Tools & Technologies

Frontend: Angular 16, HTML5, CSS3, Bootstrap 5

Backend: PHP (WAMP Server)

Database: MySQL

Development Tools: Visual Studio Code, Postman

Version Control: Git

Modules

1. Admin Module

- Manage user accounts(Student and Tutors)
- Approve or remove course and resource listings
- Monitor platform activity,content, and user feedback
- Moderate uploaded course materials and resource listing

2. Tutor Module

- Register/login and access tutor dashboard
- Create,edit, and manage course listings(title,description,media links)
- Upload supporting educational content like PDFs or video links
- Intract with enrolled students through course comments/Q&A sections

- Monitor enrollment data and manage student queries

3. Student Module

- Register/login and manage personal profile
- Browse, Search, and enroll in courses
- View course content ,video links and related materials
- List educational resources (books, other items) for trade or donation
- Exchange items with peers and contact resource owners(through email)
- Interact with tutors for course related help

4. Resource Exchange Module

- Post listings of academic materials for sale ,swap, or giveaway
- Include item details (title, category, condition,contact)
- Search and filter listings posted by others
- Request items or propose swaps
- Enable community based sharing and reuse of educational tools

5. Shared Module(Navbar/Footer)

- Shared components like navigation bar and footer
- Enables seamless navigation across the app
- Visible on all pages using Angular router

Conclusion

EduTrade delivers a practical and realistic solution that encourages academic collaboration and mutual support among university students. By simplifying traditional LMS and marketplace systems into a compact peer-to-peer platform, it enables real-world use and learning within limited time and resources. The modular design ensures the project is scalable in the future to include advanced features such as messaging, certificate issuance, or profile analytics.