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Title of the Project: UniShare

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Domain: Education , Technology

Abstract of the Project:
UniShare: Smart Campus Resource Sharing Platform

In today's academic ecosystem, students often struggle to access essential learning resources such as books, lab tools, and electronic equipment for short-term use. Buying these items is expensive and unsustainable, while college libraries frequently have limited inventory or rigid borrowing policies. This creates a recurring problem that affects both affordability and accessibility in higher education.

UniShare is an innovative, secure, and community-driven web platform designed to solve this challenge by enabling students to lend, borrow, or rent academic resources within their campus. The platform leverages QR-based identity verification to ensure safe and trusted exchanges between verified users, making every transaction transparent and reliable. Additionally, a smart recommendation engine suggests relevant resources to students based on their academic interests and past activity.

Technically, UniShare is built using a full-stack architecture comprising HTML, CSS, JavaScript (frontend) and Node.js with Express and MongoDB (backend). It features a responsive, minimal user interface optimized for seamless usability across devices. The solution promotes sustainability and inclusivity by reducing unnecessary purchases and encouraging resource reuse, thereby minimizing waste and promoting a circular campus economy.

The initial pilot is planned for SNDT University campuses, targeting 5,000 students in the first year, with further expansion to nearby institutions such as NMIMS, Mithibai, and Sophia College. UniShare also aligns with national goals of promoting sustainable development and digital innovation in education.

By combining technology, sustainability, and peer-to-peer collaboration, UniShare transforms traditional campus resource sharing into an affordable, eco-friendly, and trust-based digital experience. It empowers students to help one another, reduces financial burden, and builds a culture of sharing — paving the way toward smarter, more connected, and sustainable campuses across India.