



SIKSHA 'O' ANUSANDHAN

(Deemed to be University)

Faculty of Engineering & Technology (ITER)

Department of Computer Science and Engineering

Project Proposal Form

SENIOR DESIGN PROJECT-2025

SECTION: CSE - R

GROUP NO: R8

PROJECT TITLE: Campus Exchange – A College Marketplace & Free Library Platform

PROJECT ABSTRACT:

Aim / Objectives - The "Campus Exchange" project aims to provide a digital marketplace for college students to buy and sell products and services, along with a Free Library Section where students can voluntarily upload and access study materials, previous year questions, and problem solutions. The platform ensures a secure and user-friendly experience for students.

Problem Statement - Many college students struggle to find an efficient and free platform to buy and sell products such as books, electronics, and essentials within their college community. Additionally, there is no centralized open-access library where students can share study materials, lecture notes, and past exam papers for free. Campus Mart addresses both issues by providing a simple, free, and efficient marketplace and an open-access Free Library where students can contribute and benefit from shared educational resources.

Functionalities / Technicalities - Campus Exchange will include:

User Authentication : Secure login and registration for students.

Product Management : Users can list, edit, and remove products.

Communication System : Messaging between buyers and sellers.

Transaction System : A simple system for managing purchases.

Search & Filters : Easy navigation to find desired products.

Responsive UI : A user-friendly interface for both mobile and desktop.

Free Library Section:

Volunteer Contribution : Students can upload notes, solutions, and previous year's questions.

Open Access: Anyone can view and download study materials.

Categories & Tags : Easy sorting based on subject, semester, and course.

Benefits/ Social Contributions - Campus Exchange provides students with an affordable and convenient **marketplace** to buy and sell essentials while also offering a Free Library Section for sharing study materials. By encouraging the reuse of books and second-hand items, it promotes sustainability and reduces waste. The **open-access library** ensures that all students, regardless of financial background, can access valuable educational resources like notes, solutions, and past exam papers.

Beyond financial and academic benefits, the platform fosters **collaboration and community building**, allowing students to support each other through **peer-to-peer knowledge sharing**. It also ensures **easy access** to essential resources, making student life more convenient. More than just a marketplace, Campus Exchange is a **self-sustaining ecosystem** that enhances affordability, learning, and campus connectivity.

(1) **SOFTWARE, HARDWARE OR METHODS/ALGORITHMS SPECIFICATIONS:**

SOFTWARE : Website frontend using React, HTML, CSS, Javascript ,Tailwind
Backend using Node.js, Express.js, MongoDB, JWT, Cloudinary, WebSockets

(2) **NAME, REG. NO AND SIGNATURE OF GROUP MEMBERS:**

1) ABINASH DASH - 2141004101

Abinash Dash

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(3) **APPROVAL STATUS (To be filled in by the Section Coordinator of SDP):**

Subash ch. Tripathy,

Project Supervisor

Section Coordinator, SDP

SDP Coordinator