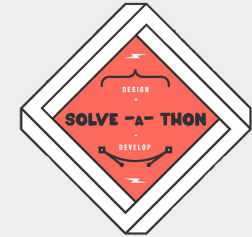


# SOLVE-A-THON



## VelocityMart

**TEAM NAME:** Soaring Coders

**DOMAIN:** Campus Sustainability



**VIT<sup>®</sup>**  
**CHENNAI**  
Vellore Institute of Technology  
(Deemed to be University under section 3 of UGC Act, 1956)

# Problem Statement



In our campus, **resource reusability** poses a significant challenge, particularly among hostel students. Items such as **books, notes, sports equipment, mattresses**, and other essentials are frequently underutilized or discarded, contributing to unnecessary waste and environmental impact. Compounding this issue is the **absence of a centralized platform that facilitates efficient renting or sharing of these resources** within the hostel community. As a result, valuable assets go unused, and individuals struggle to find the items they need, leading to inefficiencies and frustration. Hostel students require a solution that promotes **resource sharing, minimizes waste**, and provides a convenient way for them to access and rent various items essential for their academic and personal needs.



# Idea / Approach Details



## **Centralized Platform**

VelocityMart offers a user friendly platform where students can easily browse, negotiate, and get second hand books, electrical components, mattresses.

## **Efficient Communication**

The platform features real time messaging and negotiation tools, enabling students to discuss product details and finalize deals securely

## **Search and Discovery**

Robust search functionality allowing users to discover available items based on categories, keywords, or specific criteria



# TechStack / Components



## Front-End Dev

VelocityMart is built using React, Material UI, SCSS ensuring a responsive and user-friendly experience across devices.



## Backend and Database

Utilizing Firebase for both backend and database operations simplifies development, as it provides a unified platform for managing user authentication, storing data, handling real-time communication, and hosting the application.



## App Dev

VelocityMart integrates with React Native for creating a Interactive App



## Addressing Campus Needs

### 1 Textbook Exchange

Students can easily buy and sell used textbooks, ensuring they have the necessary materials while minimizing waste.

### 2 Equipment Sharing

VelocityMart enables the rental and exchange of specialized equipment, such as lab coats and electrical components, optimizing resource utilization.

### 3 Community Building

The platform facilitates the buying, selling, and renting of furniture, allowing students to furnish their living spaces efficiently.

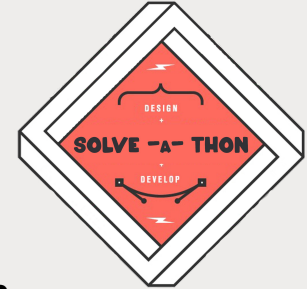
### 4 Seamless Transactions

VelocityMart streamlines the entire process, from browsing and negotiating to secure payments, ensuring a seamless experience for all users.





## Team Details



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