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COLLEGE OF ENGINEERING
A U T O N O M O U S
K A N J I R A P P A L Y

RENDEX

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ABSTRACT

RendeX

RendeX is an online second-hand rental space management system incorporating different daily-use items from several categories meant for personal as well as home use, such as student essentials (old books, calculators), clothing (used/unused), vintage collections, fitness equipment (yoga mats, machines), agricultural tools (grass cutters, irrigation pumps), medical items (unused medicines within expiry, wheelchairs), electronic devices (TVs, power banks, speakers, cameras), travel/outdoor gear (bags, helmets, tents), home-daily essentials (kitchen sets, fans, iron boxes, stoves), and furniture (cots, sofa sets, almirahs). The system users include item owners, delivery partners, and administrators within a unified environment that supports secure transactions, transparent nominal pricing, and smooth operational workflows.

There are three main modules in the system: **User Management, Inventory Management, and Rental & Support Services**. The User Management component handles all operations related to renters, item owners, and administrators, including account creation, profile updates, browsing items, maintaining wishlists, viewing rental history, uploading products, setting rental terms, managing availability, tracking bookings, and overseeing system-wide activities such as user control, category updates, payment oversight, and dispute handling.

The Inventory Management component organizes and presents all rental items under structured categories, offering filters, subcategories, item cards, combo suggestions, safety information, delivery/insurance details, and a multi-owner comparison feature that displays rental prices, deposits, ratings, and availability for the same item from different owners.

The Rental & Support Services component manages the complete rental workflow, including item selection, service availability checks, choosing delivery or pickup, assigning delivery partners, tracking item movement, handling returns, and providing a dedicated dispute resolution mechanism that ensures smooth communication and trustworthy operations between users and owners. This rental platform provides a convenient and cost-effective solution for people who can rent items as second-hand. By connecting users, owners, and delivery partners through a well-structured system, it ensures smooth renting, secure payments, easy returns, and efficient management.

