

Project Title:RENTIT

Rentit: A Platform to Rent Products Like Furniture and Electronics
platform: flutter

Introduction

Rentit is a cross-platform application developed using Flutter that enables users to rent or list products like furniture, electronics, appliances, and more. This app aims to provide a seamless experience for people looking for cost-effective and sustainable options for accessing products without buying them outright. By fostering a sharing economy, Rentit reduces waste and promotes affordability

Key Objectives

1. Provide a reliable and easy-to-use platform for renting products.
2. Enable users to monetize unused products by listing them for rent.
3. Ensure transparency, trust, and secure transactions between users.
4. Promote sustainability by encouraging the reuse of items.

Key Features

1. Product Listings

- Owners can list their items for rent with detailed descriptions, prices, photos, and conditions.
- Categories include furniture, electronics, appliances, vehicles, tools, and more.

2. Search and Filters

- Advanced search functionality to find products by name, category, or location.
- Filters for price range, availability, and delivery options.

3. Payment System

- Integrated payment gateway (e.g., Razorpay, Stripe, or PayPal) for secure transactions.
- Options for upfront payments and refundable deposits.

4. Delivery and Pickup Options

- Users can choose between self-pickup or delivery services.
- Delivery can be integrated with logistics providers for seamless coordination

User Roles

- Renter: Browse and rent products.

- Owner: List and manage rental items.
- Admin: Oversee transactions, resolve disputes, and manage user accounts.

Existing System

1. Description:

- Renting products like furniture and electronics often involves manual processes, such as physical store visits or informal agreements.
- Some platforms exist but may lack user-friendly interfaces, comprehensive product listings, or transparent pricing.

2. Drawbacks:

- **Limited Accessibility:** Physical stores require users to visit in person, which is time-consuming and inconvenient.
 - **Lack of Variety:** Existing platforms may have a limited range of products or categories.
 - **Inefficiency:** Manual processes lead to delays in finding suitable products or finalizing agreements.
 - **Transparency Issues:** Pricing and terms are often unclear or inconsistent.
 - **Poor User Experience:** Many platforms lack seamless navigation, leading to user frustration.
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Proposed System

Description:

- 'RentIt' is a digital platform designed to streamline the rental process for furniture and electronics. It provides users with an intuitive interface to browse, search, and rent products with ease.

2. Key Features:

- **Wide Product Selection:** Users can explore a variety of products with detailed descriptions and photos.
- **Advanced Search and Filters:** Users can find items based on price, category, or availability.
- **User-Friendly Interface:** Clean design for seamless navigation and interaction.
- **Transparent Pricing:** Display of rental costs with no hidden charges.

- **Efficient Transactions:** Online booking and payment options for a hassle-free experience.
- **Scalability:** Future updates can include new product categories or features, like delivery tracking or user reviews.

3. **Advantages Over the Existing System:**

- Saves time and effort through online operations.
- Greater transparency in pricing and product details.
- Enhanced user experience with advanced features.
- Provides a reliable and scalable solution for both users and vendors.

TABLE DESIGN

TABLE: tbl_admin

This table contains details of Admin

ATTRIBUTES	DATATYPE	DESCRIPTION	CONSTRAINT
admin_id	INT (11)	Id for Admin	PRIMARY KEY
admin_name	VARCHAR (100)	Store the Admin name	NOT NULL
admin_email	VARCHAR (100)	Store the Admin email	NOT NULL
admin_password	VARCHAR (100)	Stores the Admin password	NOT NULL

tbl_district

This table stores the details of districts

ATTRIBUTES	DATATYPE	DESCRIPTION	CONSTRAINTS
district_id	INT (11)	Stores the district id	PRIMARY KEY
district_name	VARCHAR (100)	Stores the district name	NOT NULL

tbl_place

This table stores the details of place

ATTRIBUTES	DATATYPE	DESCRIPTION	CONSTRAINTS
place_id	INT (11)	Stores the place id	PRIMARY KEY
place_name	VARCHAR (100)	Stores the place name	NOT NULL
district_id	INT (11)	Stores the place id	FOREIGN KEY

tbl_user

This table contains the details of user.

ATTRIBUTES	DATATYPE	DESCRIPTION	CONSTRAINT
user_id	INT (11)	Stores the user id	PRIMARY KEY
user_name	VARCHAR (100)	Stores the user name	NOT NULL
user_email	VARCHAR (100)	Stores the user email	NOT NULL
user_gender	VARCHAR (100)	Stores the user gender	NOT NULL
user_contact	INT (11)	Stores the usercontact	NOT NULL
user_address	VARCHAR (100)	Stores the user address	NOT NULL
place_id	INT (11)	Stores the place id	FOREIGN KEY
user_photo	VARCHAR (100)	Stores the user photo	NOT NULL
user_proof	VARCHAR (100)	Stores the user proof	NOT NULL
user_password	VARCHAR (100)	Stores theuser password	NOT NULL
user_vstatus	VARCHAR (100)	Stores the user verification status	NOT NULL

tbl_booking

This table contains booking details.

ATTRIBUTES	DATATYPE	DESCRIPTION	CONSTRAINT
booking_id	INT (11)	used to store booking id	PRIMARY KEY
booking_date	VARCHAR (100)	Store the date of booking	NOT NULL
user_id	INT (11)	Stores the user id	FOREIGN KEY
booking_status	VARCHAR (100)	Store the status of booking	NOT NULL
booking_amount	VARCHAR (100)	Store the amount of booking	NOT NULL
booking_totalprice	INT (11)	Store the total price of booking	NOT NULL
boy_id	INT (11)	Store the id of delivery boy	FOREIGN KEY

tbl_cart

This table contains the cart details.

ATTRIBUTES	DATATYPE	DESCRIPTION	CONSTRIANT
cart_id	INT (11)	Store the id of branch	PRIMARY KEY
cart_qty	INT (11)	Storesthe quantityof cart	NOT NULL
item_id	INT(11)	Store the id of tool	FOREIGN KEY
booking_id	INT(11)	Store the id of booking	FOREIGN KEY
cart_status	INT(11)	Store the status of cart	NOT NULL

tbl_category

This table stores the details of the category

ATTRIBUTES	DATATYPE	DESCRIPTION	CONSTRAINTS
category_id	INT (11)	Stores the category id	PRIMARY KEY
category_name	VARCHAR (100)	Stores the category name	NOT NULL

tbl_subcategory

This table contains the details of subcategory.

ATTRIBUTES	DATATYPE	DESCRIPTION	CONSTRAINT
subcategory_id	INT (11)	Used to store subcategory id	PRIMARY KEY
subcategory_name	VARCHAR (100)	Used to store subcategory name	NOT NULL
Category_id	INT (11)	Used to store category id	FOREIGN KEY

tbl_toolshop

This table contains the details of shop.

ATTRIBUTES	DATATYPE	DESCRIPTION	CONSTRAINT
shop_id	INT (11)	Stores the shop id	PRIMARY KEY
shop_name	VARCHAR (100)	Stores the shop name	NOT NULL
shop_contact	INT (11)	Stores the shop contact	NOT NULL
shop_email	VARCHAR (100)	Stores the shop email	NOT NULL
shop_address	VARCHAR (100)	Stores the shop address	NOT NULL
place_id	INT (11)	Stores the place id	FOREIGN KEY
shop_logo	VARCHAR (100)	Stores the shop logo	NOT NULL
shop_proof	VARCHAR (100)	Stores the shop proof	NOT NULL
shop_password	VARCHAR (100)	Stores the shop password	NOT NULL
shop_vstatus	VARCHAR (100)	Stores the shop verification status	NOT NULL

tbl_item

This table contains the details of item

ATTRIBUTES	DATATYPE	DESCRIPTION	CONSTRAINT
item_id	INT (11)	Stores the item id	PRIMARY KEY
item_name	VARCHAR (100)	Stores the name of item	NOT NULL
subcategory_id	INT (11)	Stores the subcategory id	FOREIGN KEY
company_id	INT (11)	Stores the company id	FOREIGN KEY
type_id	INT (11)	Stores the type id	FOREIGN KEY
item_photo	VARCHAR (100)	Stores the item photo	NOT NULL
item_detail	VARCHAR (100)	Stores the item detail	NOT NULL
item_rentprice	INT (11)	Stores the item rent price	NOT NULL
itemshop_id	INT (11)	Stores the item shop id	FOREIGN KEY
user_id	INT (11)	Stores the user id	FOREIGN KEY

tbl_stock

This table contains the details of stock.

ATTRIBUTES	DATATYPE	DESCRIPTION	CONSTRAINT
stock_id	INT (11)	Stores stock id	PRIMARY KEY
stock_quantity	INT (11)	Stores stock quantity	NOT NULL
Stock_date	INT (11)	Stores stock date	NOT NULL
item_id	INT (11)	Stores stock id	FOREIGN KEY

tbl_complaint

This table contains the complaint details.

ATTRIBUTES	DATA TYPE	DESCRIPTION	CONSTRAINT
Complaint_id	INT (11)	Stores the complaint id	PRIMARY KEY
Compalint_title	VARCHAR (100)	Stores the complaint title	NOT NULL
Compalint_content	VARCHAR (100)	Stores the complaint content	NOT NULL
user_id	INT (11)	Stores the user id	FOREIGN KEY
shop_id	INT (11)	Stores the toolshop id	FOREIGN KEY
Complaint_reply	VARCHAR (100)	Stores the complaint reply	NOT NULL
Complaint_status	VARCHAR (100)	Storesthe complaint status	NOT NULL
Complainttype_id	INT (11)	Stores the complaint typeid	FOREIGN KEY

tbl_deliveryboy

This table stores delivery boy details.

ATTRIBUTES	TYPE	DESCRIPTION	CONSTRIANT
boy_id	INT (11)	Stores the delivery boy id	PRIMARY KEY
boy_name	VARCHAR (100)	Stores the delivery boy name	NOT NULL

boy_address	VARCHAR (100)	Used to store delivery boy address	NOT NULL
boy_contact	VARCHAR (10)	Used to store delivery boy contact	NOT NULL
boy_email	VARCHAR (100)	Used to store delivery boy email	NOT NULL
boy_photo	VARCHAR (100)	Stores delivery boy photo	NOT NULL
boy_proof	VARCHAR (100)	Stores delivery boy proof	NOT NULL
place_id	VARCHAR (100)	Stores the place id	NOT NULL
boy_password	VARCHAR (100)	Stores delivery boy password	NOT NULL