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PL/SOL PROJECT: SMART HOUSE RENTING MANAGEMENT SYSTEM

1. PROJECT IDEA

What is it?

The Smart House Renting Management System is a web-based platform that automates and streamlines the entire process of renting houses and apartments. It connects property owners (landlords) with tenants, manages rental agreements, tracks payments, handles maintenance requests, and provides real-time insights into property performance.

Who uses it?

Property Owners/Landlords: Manage multiple properties and tenants

Tenants: Search for properties, pay rent, and request maintenance

Property Managers: Oversee properties on behalf of owners

Administrators: Manage the entire platform

3. INNOVATION & IMPROVEMENTS (DATABASE CONTEXT)

1. Automated Payment Tracking with Database Triggers

Innovation: PL/SQL triggers that automatically manage payment-related operations.

Implementation:

- **Late Payment Trigger:** Automatically calculates and adds late fees when payment is overdue

- **Receipt Generation Trigger:** Generates unique receipt numbers upon successful payment
- **Lease Status Trigger:** Updates lease status to 'expired' when end_date passes
- **Property Availability Trigger:** Updates property status based on active leases

Benefit: Eliminates manual calculations and ensures consistent payment tracking.

