

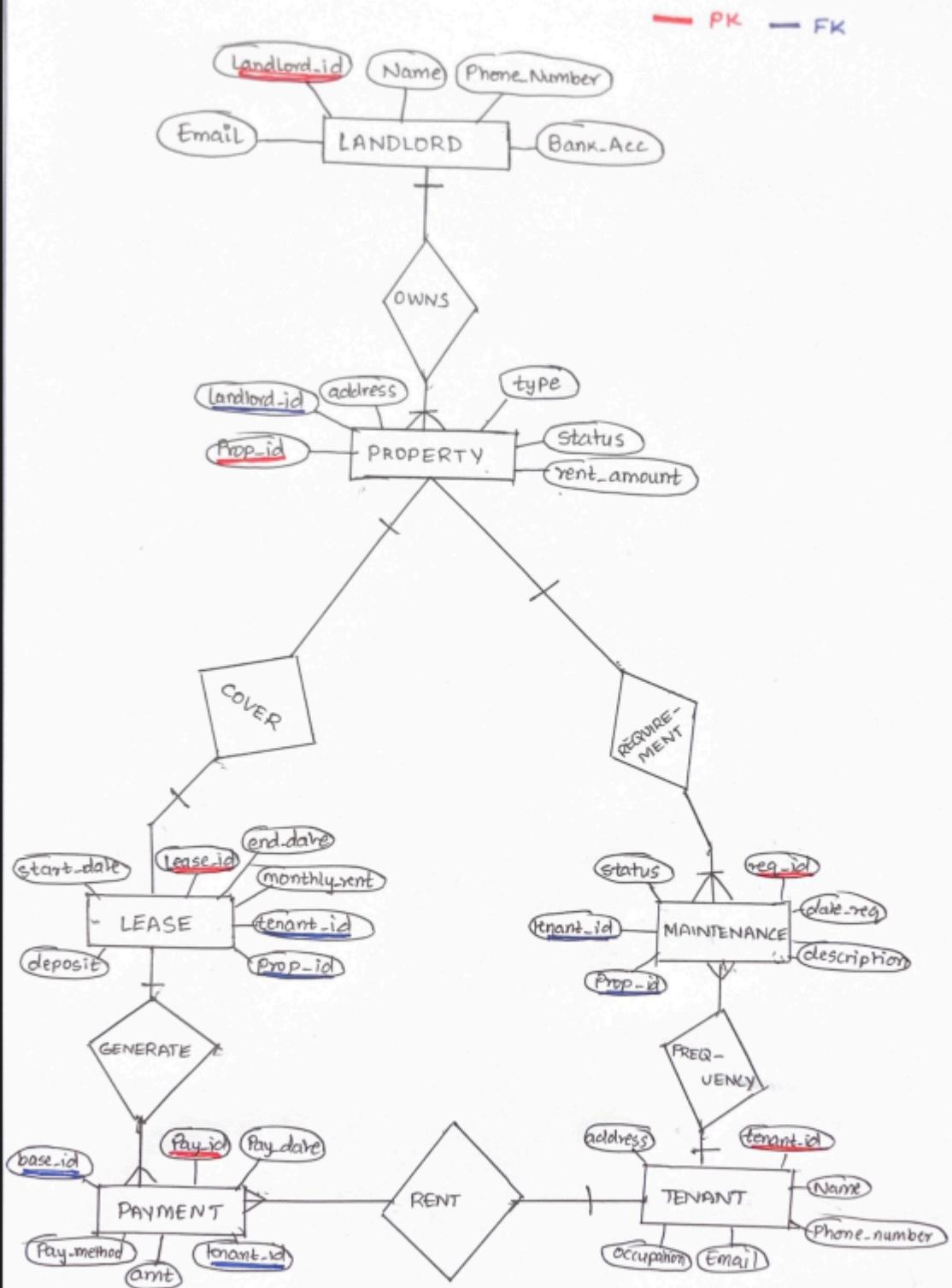
AIR-DND!

The go-to rental management system

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- **Description:**

The House Rental Management System is designed to simplify and digitalize the process of managing rental properties. Traditional rental management often involves manual record-keeping, delayed communication, and difficulty tracking rent payments and maintenance requests. This project addresses these issues by providing a centralized platform where landlords and tenants can interact efficiently. The system automates key tasks such as rent collection, tenant management, lease tracking, and maintenance scheduling, ensuring accuracy, transparency, and convenience for all users.
- **Entities and Attributes (PK highlighted yellow, FK highlighted pink):**
 - 1. Tenant:** (Tenant_ID, Name, Phone_Number, Email, Occupation, Permanent_Address)
 - 2. Landlord:** (Landlord_ID, Name, Phone_Number, Email, Bank_acc)
 - 3. Property:** (Prop_ID, Address, Type, Rent_Amount, Status, Landlord_ID)
 - 4. Lease:** (Lease_ID, Start_Date, End_Date, Monthly_Rent, Deposit, Tenant_ID, Prop_ID)
 - 5. Payment:** (Pay_ID, Pay_Date, Amount, Pay_Method, Tenant_ID, Lease_ID)
 - 6. Maintenance:** (Req_ID, Req_Date, Description, Status, Prop_ID, Tenant_ID)
- **Entity-Relationship Diagram (ER Diagram):**

⇒ ENTITY RELATIONSHIP DIAGRAM (ER-DIAGRAM):



- **Entity and relationship tables:**

	email	landlord_id	name_landlord	phone	bank_acc
*	NULL	NULL	NULL	NULL	NULL

[landlord 1](#) [x](#) [property 2](#) [tenant 3](#) [lease 4](#) [payment 5](#) [maintenance 6](#)

	prop_id	landlord_id	address	type_prop	status_prop	rent_amt
*	NULL	NULL	NULL	NULL	NULL	NULL

[landlord 1](#) [property 2](#) [x](#) [tenant 3](#) [lease 4](#) [payment 5](#) [maintenance 6](#)

	tenant_id	occupation	address	email	name_t	phone
*	NULL	NULL	NULL	NULL	NULL	NULL

[landlord 1](#) [property 2](#) [tenant 3](#) [x](#) [lease 4](#) [payment 5](#) [maintenance 6](#)

	lease_id	prop_id	tenant_id	monthly_rent	end_date	start_date	deposit
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

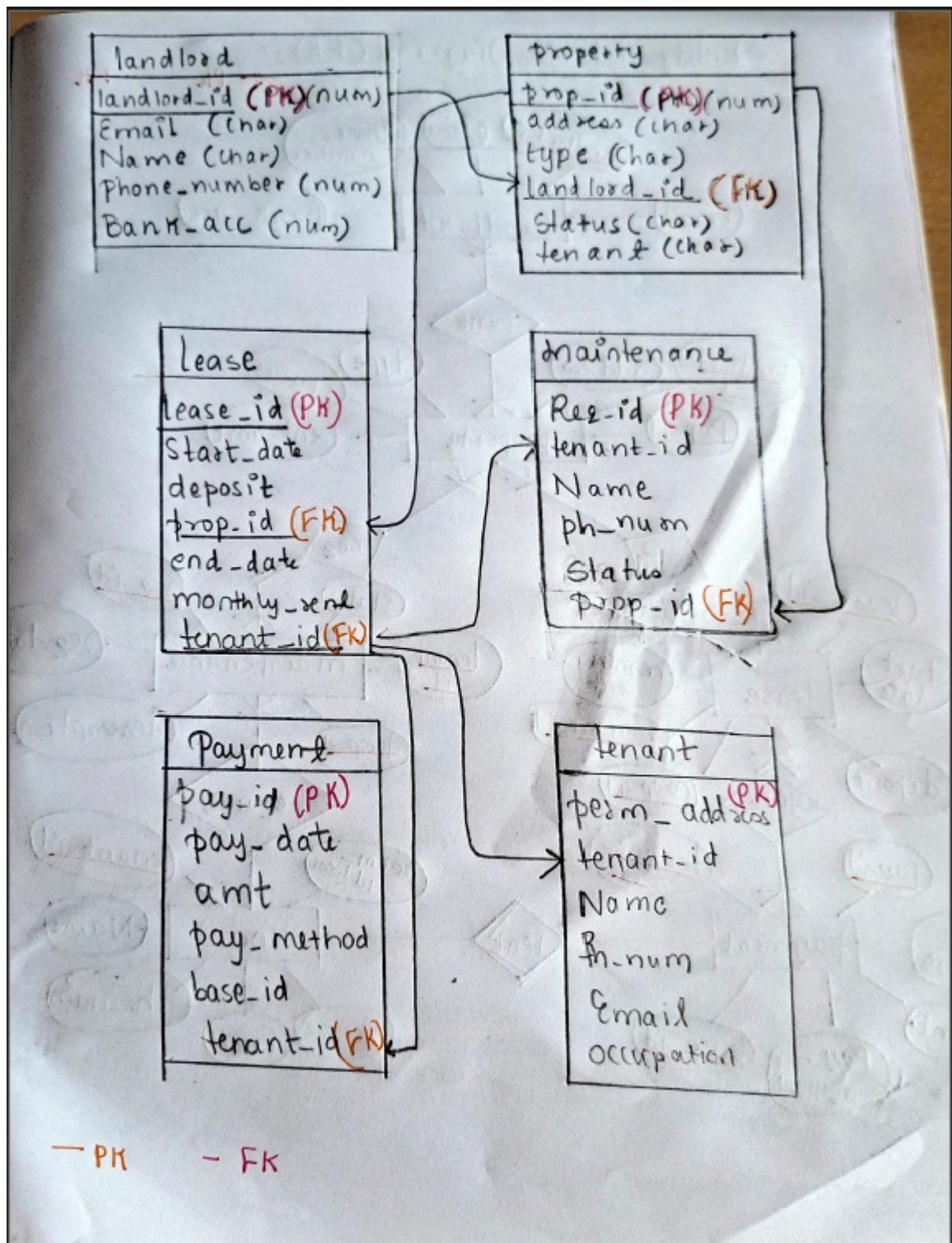
[landlord 1](#) [property 2](#) [tenant 3](#) [lease 4](#) [x](#) [payment 5](#) [maintenance 6](#)

	lease_id	pay_id	tenant_id	pay_date	pay_method	amt
	NULL	NULL	NULL	NULL	NULL	NULL

landlord 1	property 2	tenant 3	lease 4	payment 5	x	maintenance 6
	req_id	tenant_id	prop_id	status_m	date_req	description_m

landlord 1	property 2	tenant 3	lease 4	payment 5	maintenance 6	x
	NULL	NULL	NULL	NULL	NULL	NULL

- Relational mapping:



- **BCNF-corrected relational mapping:**

