# Building

QA owns several buildings, each of which have a distinct **address** including **post code**.

# Apartment

There are several apartments within each of those buildings (one building – many apartments). Each apartment in a given building is assigned an **apartment number** that is unique within that building (but not necessarily across different buildings). QA wants to keep track of the **number of bedrooms**, **the number of bathrooms** and **the total area (in square feet)** for each apartment. (See manager: **Manager Number**)

# Person

The system manages information for different kinds of people. As of now, QA manages two *disjoint* categories of people: tenants and employees. Each person is identified by a **unique ID**, and has information consisting of their **first name and last name**. For each person, the system would maintain **emergency contact information** , specifically, the **name and contact number** of a person to be contacted (relation?)

# Tenant

For each tenant, it is necessary to record their **bank account number**, since rent needs to be **collected every month\***. (Tenant ID?)

# Employee

For each employee, the application will keep track of their monthly salary. Employees may be managers or technicians (or both).

# Manager

Each manager has an **office located in one of the apartments** owned by QA. Each manager manages at least one apartment, and each apartment must have a manager**(Manager ID and Employee ID)**.

# Technician

# Technician Skills

For each technician, the system would keep track of the skills they have; which may be one or more of the following: “carpentry”, “plumbing”, “electrical”. (TechnicianID, SkillID)

# Lease

A lease agreement is a formal contract, **identified uniquely by an ID**, signed by one or more tenants (see “LeaseTenant”) to lease an apartment. It includes the **start date** and **expected** **duration of occupation** (in terms of number of months), as well as the **monthly rent charged for the apartment**. The lease agreement is also **signed by any one of the managers** at QA. The system keeps **track of all (expired and live) lease agreements** signed so far.

Similarly, even if a tenant ceases to be one, their details are *not purged* from the system in anticipation of future custom. (Possible query to remove as tenant but not as person).

# LeaseTenant

To rent an apartment from QA, tenants must sign a lease agreement. (LeaseID, TenantID).