

Project Phase - II

Apartment Management System

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The mini-world chosen is an Apartment Complex.

Having been a little careless in phase I , the changes we are now happy to make in Phase II of our Database Requirements document are as follows :

ENTITIES

To justify some relationships presented by us in the requirements document:

- 1) Taking some attributes from the already existing entity type APARTMENT , we now create a new Entity type, OWNER .

2. APARTMENT (weak entity, foreign key = block name)

- a) Apartment number (partial key) (INT)
- b) Apartment size (FLOAT)
- c) Owner id (VARCHAR(20))
- d) Monthly maintenance Charges (FLOAT)

16. OWNER (weak entity, foreign key = block name)

- a) Owner id (partial key) (VARCHAR(20))
- b) Owner name (VARCHAR(30))
- c) Phone number (Multivalued : {phoneNo1, phoneNo2,...} BIGINT)
- d) Email id (VARCHAR(30))
- e) Owner since (composite attribute : {DAY, MONTH, YEAR})

- 2) We changed the entity type COMMITTEE_HISTORY to COMMITTEE.

RELATIONSHIPS

We are now considering the following new relationships not mentioned earlier in the requirements document.

- 1) VISITORS visit APARTMENT_COMPLEX. (1 , 1) --- (1 , n)
- 2) TENANT or OWNER pays MMC (Monthly maintenance charges). (0 , 1) --- (0 , 1) --- (1 , 1)
- 3) TENANT or OWNER lodge COMPLAINTS. (0 , 1) --- (0 , 1) -- (1 , 1)
- 4) COMMITTEE manages ACCOUNTS and EXPENDITURE. (1 , 1) -- (1 , 1) --- (1 , 1)

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ER Diagram

