

# HSassets(Hardware/software) Database Design

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Project Step 5  
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| Client          |            |                                   |
|-----------------|------------|-----------------------------------|
| Field           | Type       | Constraints                       |
| clientid        | int        | not null, primary key(user/owner) |
| corporate email | string(40) | not null, unique                  |
| password        | string(40) | not null, unique                  |

| Device Maintenance Repair |               |   |
|---------------------------|---------------|---|
| Field                     | Type          | Constraints                                 |
| clientid                  | int           | not null, primary key(user/owner)           |
| deviceid                  | int           | not null, foreign key (device)              |
| deviceType                | string(10)    | not null                                    |
| intakeDate                | date          | not null                                    |
| description               | string (1000) | not null                                    |
| techName                  | string(50)    | not null                                    |
| techPhone                 | int (10)      | null  |
| repairCost                | money         | not null                                    |
| repairType                | choice        | not null (Maintenance, Repair, Replacement) |
| repairedDate              | date          | not null                                    |

One to Many

Many to Many

One to One

| Hardware info              |             |                                   |
|----------------------------|-------------|-----------------------------------|
| Field                      | Type        | Constraints                       |
| clientid                   | int         | not null, primary key(user/owner) |
| deviceid                   | int         | not null, foreign key (device)    |
| deviceType                 | string(10)  | not null                          |
| service tag(serial number) | string(40)  | not null, foreign key( device)    |
| year                       | int(4)      | not null                          |
| model                      | string(20)  | not null                          |
| productName                | string (20) | not null                          |
| WiFi                       | choice      | not null(yes, no)                 |

One to Many

| Life Cycle Replacement |        |  |
|------------------------|--------|--|
| Field                  | Type   | Constraints                            |
| deviceid               | int    | not null, foreign key (device)         |
| LCRdate                | date   | not null, (4 years from purchase date) |
| LCRextension           | choice | not null (yes, or no)                  |
| turnInDate             | date   | not null                               |

| Software info   |            |                                |
|-----------------|------------|--------------------------------|
| Field           | Type       | Constraints                    |
| deviceid        | int        | not null, foreign key (device) |
| deviceType      | string(10) | not null                       |
| OS              | string(20) | null(operating system)         |
| searchEngine    | string(20) | null                           |
| softwareInstall | string(20) | not null(foreign key)          |