IT REPOSITORY MANAGEMENT

Goal: - To make software which provides service for IT depository management which manages requirement of various hardware and software installed in college premises and other details related to them.

Problem Statement: - It contains various details of item existence, purchase and installation. For better management, we have divided the items in 3 categories – HARDWARE, LICENSED_SOFTWARE and FREEWARE. For hardware, we are mostly interested in keeping track of goods purchased, its cost and warranty expiration dates, for licensed software, we are concerned about the registered user, the licensed key and the expiration date. Vendor details are all about its address and phone number. Location has a unique location id and its name. Complaints from an item have a unique ID, the complaint date, resolved date and cost.

Relations:-

- ➢ Item is located at which place OR each location has how many items.
- ➢ Item brought from which vendor OR each vendor gives what all items.
- ➢ Item has a registered complaint OR complaints for how many items.
- ➢ Complaint from which location OR a location has how many complaints.
- ➢ Replace the details of the item if the item has been replaced.

Constraints:-

- ➢ Each item is compulsorily purchased from a single vendor.
- ➢ All licensed and hardware items have a complete limited warranty.
- ➢ If item has a complaint and it is not in warranty then replacement will be a new item.
- ➢ An item is located at one and only one location at a particular time.
- ➢ If a complaint of an item is made, it must be replaced within 7 days from complaint date
- ➢ All items which are not in hardware or licensed category are freeware.

Entities and Relations:-

- ● <u>Item -></u>
  - ➢ **Item_ID**
  - ➢ Item_name
  - ➢ Cost
  - ➢ Shipment_Cost
  - ➢ Purchase date
  - ➢ Manufacturer
  - ➢ Complaint

➢ Replaced

- ## Hardware ->
  - ➢ **Serial_No**
  - ➢ Manufactured_Date
  - ➢ Warranty_Period

- ## Software ->
  - ➢ **License key**
  - ➢ Registered_User
  - ➢ Expiration_Date

- ## Vendor ->
  - ➢ **Vendor_ID**
  - ➢ Vendor_Name
  - ➢ Phone_No
  - ➢ Address

- ## Location ->
  - ➢ **Location_ID**
  - ➢ Location_Name

- ## Complaints ->
  - ➢ **Complaint_ID**
  - ➢ Date of complaint
  - ➢ Cost
  - ➢ Date of Resolve

Scope:-

This database is made only for college hardware/software management and keeping track of everything relate to IT department. It is only bound to server room people and others associated with this department.