Project - Inventory Tracking System(ITS)

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Back End Implementation Details

- Tracking of roles and object instances is done using IITH(IIT Hyderabad) ID assigned.

- The process of generation of IITH ID is :

Assigning IITH ID:

1. For Roles:

   - Admin:

     General Form : ADX (eg: AD1, AD22, AD123)

   - Operation Manager:
     - For Library Field : OMLRX (LR = Library)
     - For Class Field : OMCLX (CL = Classroom)
     - For Office Field : OMOFX (OF = Office)
     - For Lab Field : OMLBX (LB = Lab)

   - Supervisor:
     - For Library Field : SVLRX (LR = Library)
     - For Class Field : SVCLX (CL = Classroom)
     - For Office Field : SVOFX (OF = Office)
     - For Lab Field : SVLBX (LB = Lab)

   - Faculty:

     General Form : CSX

   - Seller:
     No IITH ID is given to seller.

2. For Items:

   Eg : Bench $\longrightarrow$ BENX

   Method for assigning ID :

   (First 3 letters of the object class)+ (Serial Number of the object in that year)

Info of Roles which are stored in the database:

1. Admin:
   i) Name of the Admin
   ii) IITH ID
   iii) IITH Mail ID
   iv) Password
   v) Contact Number

2. Operations Manager:
   i) Name of the Operations Manager
   ii) Field of operations
   iii) Appointed by
   iv) IITH ID
   v) IITH Mail ID
   vi) Password
   vii) Contact Number

3. Supervisor
   i) Name of the Supervisor
   ii) IITH ID
   iii) IITH Mail ID
   iv) Password
   v) Contact Number
   vi) Appointed by
   vii) Field of supervision
   viii) Info about the classes of the objects which the supervisor maintains

4. Faculty:
   i) Name of the Faculty
   ii) IITH ID
   iii) IITH Mail ID
   iv) Password
   v) Contact Number

5. Seller:
   i) Name of the Seller
   ii) Company Name
   iii) Mail ID (Personal)
   iv) Contact Number
   v) Object Class selled by the seller

Info of the Object instance which are stored in the database:

1. IITH ID of the item

2. Field to which the item belongs

3. Type of the item

4. Company Name

5. Company ID

6. Price

7. Seller Name

8. Supervisor of the item

9. Current Location

10. Status of the item (Working/Damaged/Under Repair)

11. Date of buying