

Project - Inventory Tracking System(ITS)

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- This project is aimed at developing a desktop based application named Inventory Tracking System(ITS) for managing the details of inventory of a department in a college.
 - Inventory Tracking System (ITS) is a tool that is used to manage/track the inventory of CSE Department.

Field:

- These are the different areas/categories of places which a department comprises off.
- The following are the types of fields:
 - Lab
 - Class
 - Office
 - Library

Object Class:

- An object class is the type of object in the field.
- ex: Boards, projector, benches etc.

Object Instances:

- The single entity of an object class is called as an object instance.

Roles:

- These are the positions of responsibilities which are needed to maintain the inventory.
- The following are the types of roles:
 - Admin
 - Operations Manager
 - Supervisor
 - Faculty

● Admin

- Admin appoints Operations Manager for each field.
- Verifying the info of the Operations Managers' and updating it to the database.
- He can access all the info of the inventory of the department.
- Admin provides the details of the sellers.

● Operations Manager:

- Each field has a group or a single operations manager.
- OM has the power of creation and deletion the object classes for a field.
- OM appoints supervisor to a set of object classes or a single object class for maintaining the object classes.
- Verifying the info of the Supervisor and updating it to the database.
- OM can access all the info of the inventory of the field to which he is assigned to.

● Supervisor:

- Supervisor adds or deletes a particular object instances.
- Supervisor can update the status of an object instance.
- Supervisor can access all the info of the inventory of the object classes which he was assigned for.
- The Supervisor is the person who buys the required product from the seller list provided by the Admin.
- Tracking of object instances is done based on an ID assigned to them.

- Faculty can access the info of inventory of Lab, Library and Classroom in view only mode.

Technical Details

- Frontend : JavaFX
- Backend : Java
- Database : MySQL
- Tools used : Scene Builder, MySQL Workbench
- IDE used : IntelliJ IDEA

Work Split in Project

- Frontend :
 - Primary contribution : 1RishiManoj.P, Varshini.J
- Backend :
 - Primary contribution : Anudeep Rao.P
 - Helper : Varshini.J
- Database :
 - Primary contribution : Anudeep Rao.P

- For a more elaborated explanation of the project we request the reader to please look into the PDF's Frontend.pdf, Backend.pdf

