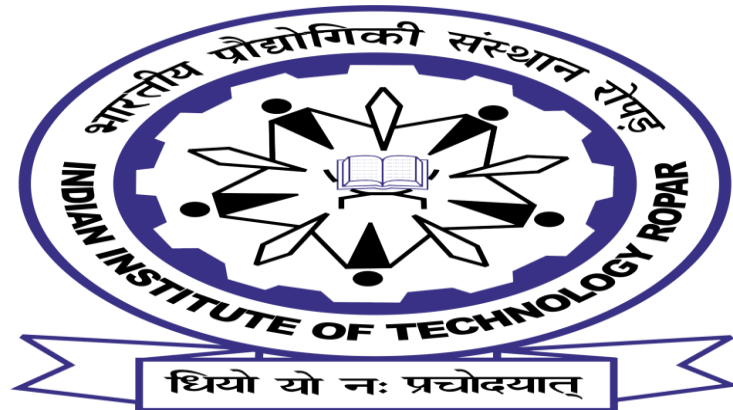


CS302::DATABASE MANAGEMENT SYSTEM



Project Report

Team Name - T16

Topic – Petrol-Pump Management

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Project Description and Contribution:-

Tools Used - MySQL , Python

FrontEnd

- In this Project, frontend part is done by using famous Python library streamlit.
- Streamlit is an open source app framework in Python language. It helps us create web apps for data science and machine learning in a short time. It is compatible with major Python libraries such as scikit-learn, Keras, PyTorch, SymPy(latex), NumPy, pandas, Matplotlib etc.
- We can Perform operations such as Create, Read, Delete, Update aslso known as [CRUD] Operations.
- There is one user defined function which calculate Total Price in Tanker table and a Trigger which is present in Employee table which get activated when someone Try to update Salary field if salary is less that 300000.

Backend

- In Backend creation of table and table population is done in MySQL
- It also uses libraries such as Pandas, sql connector, Streamlit
- It is mostly done Using Python Language.

Project File Structure

In Projets folder the following files are present

- * create_database.py --> This file is used to Create database Ptrolpump_Management
- * app.py --> This is the main file you need to run after creation of the databases. It has codes for GUI part.
- * databases.py --> This file has all the important function calls

* create.py --> It creates new table rows when you want to add new data.

* delete.py --> It has delete function implementation used for deleting any specific row in table.

* read.py --> It read data from table and send it to view function to display.

* update.py --> It updates the data in the table.

How TO RUN

- First create databases using Create_database.py

- Install all the librarys

- run app.py file using command: "Python -m streamlit run app.py"

Contributions:

Kushagra sharma – Backend related, Debugging of compiled project

Het Patel- frontend related and helped in compiling all python files

Sushil Kumar- Debugging of SQL Procedures and coding of user interface

Akshitha peguda – Er diagram design