

Gas Station Inventory

Specifications:

- Monthly volume logs of the three types of Gasoline
 - Diesel
 - Premium
 - Unleaded
- Track Tank Volume Inventory and transactions
 - Track the volume of fuel bought in every transaction
 - Continuously track the volume dispensed by each pump after every transaction
 - Fuel Tank inventory (Am Shift & Pm Shift)
- Convert Inventory into prices(diesel 1 has different prices from diesel 2 & 3 but the same volume, same for premium and unleaded categories)
 - Diesel (PB), Diesel (1), Diesel (2), Diesel (3)
 - Premium (PB), Premium (1), Premium (2), Premium (3)
 - Unleaded (PB)
- Income
 - Daily
 - Weekly
 - Monthly
 - Yearly

Features:

A. User Management

- ☐ Login page for the admin and the employee
- ☐ The admin can access the logs, while the employee can only input logs
- ☐ Confirmation window to avoid misinputs by employees
- ☐ Acceptable UI/UX

B. Shift Management

- ☐ A button to indicate when to start/end a shift to track and record fuel volumes

- ☐ After shifts(AM, PM), calculate the Total Pump Fuel Volume and record fuel volumes

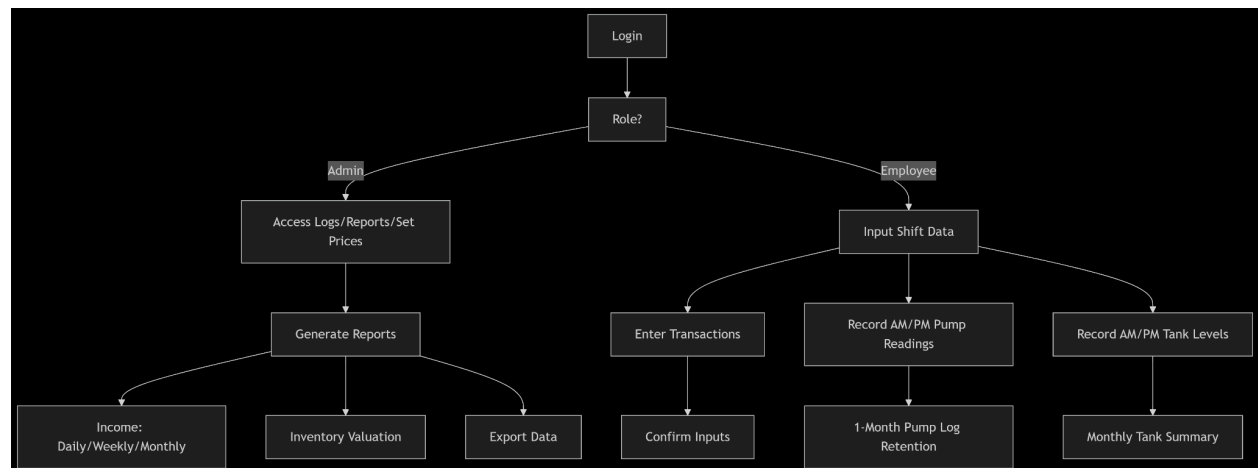
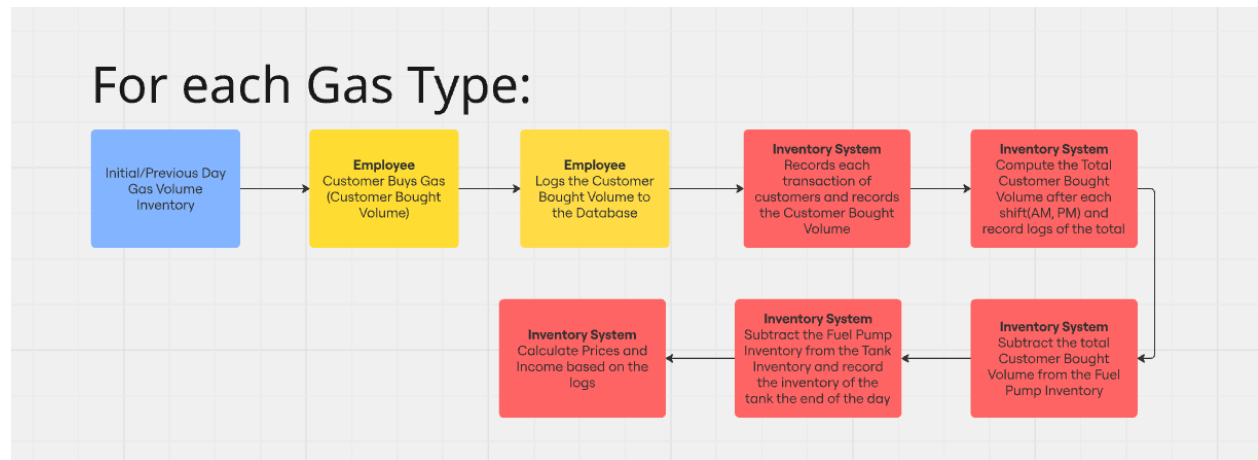
C. Transaction Input

- ☐ An input page to track and record each transaction of pump fuel
- ☐ Pump Fuel Volume Logs should remain for 1 month
- ☐ Tank Fuel Logs after daily for each fuel category

D. Income and Inventory Reports

- ☐ Maintain the previous inventory of fuel
- ☐ Add a delivery log to update the current fuel inventory
- ☐ Calculate inventory prices based on the logs
- ☐ Calculate Daily, Weekly, and Monthly Income
- ☐ Price History Tracking
- ☐ Data Export(Optional)

Process Flowchart:



Initial Entity Relationship Diagram:

