

Python project Discussion - Pros and Cons

Final Project

PROG8420

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Project 4: Logistics Control System

Project Requirements

The above mentioned project involves creating a Logistics control system with the following features

- A system that records the inventory(products) present in a warehouse (CRUD – Create Read Update and Delete actions required)
- A system that records vehicle information for the vehicles that transport the products to the customers(CRUD actions)
- It should allow storing of the various warehouse locations (CRUD actions)
- It should allow the storing of customer information (CRUD actions)
- It should store information about the products purchased by the customers (Customer -> product table relationship)(CRUD)
- Route information should also be stored (ideally Relationship between Customer,Vehicle,Product and locations)
- Various reports and graphs to be generated

Pros of choosing this project

- Complexity of this project will allow us to experiment with implementing joins,relationships and pulling data from various data collections
- Lot of learning from this project because it may teach us implementing an end to end system
- Lots of work for each of us to do while implementing the project so easy to hand tasks over.
- It would definitely have more weight on our resumes while we add this project

Cons of choosing this project

- Complexity of the project can be considered as a double edged sword, it can backfire
- We have some unknown parameters, the requirements state that we need to generate audits and reports (reports can be complicated for a complex system)

Tools and Libraries used:

- Python 3.7+
- Pandas
- Seaborn (visualisation)
- If UI is required we can utilise PyQt5 or Tkinter to build an executable or use flask to write restful services and render on webpage
- Matplotlib -> Graphs
- MongoDB
- Mongo for python driver.

Project 5: Real Estate Rental System

Project Requirements

The Real Estate Rental system requires the following features

- A collection to store the building information (CRUD).
- A collection to store tenants information (CRUD).
- A collection to store rental information (Relation between apartment,tenant and additional information price and period) (CRUD).
- Monthly payment can be stored in tenant collection.
- Report generation and audit required.

Pros of choosing this project

- Complexity of this project is easier since we have only 3 collections(tables) to handle.
- It can be completed in a shorter duration and not many complicated queries to write.

Cons of choosing this project

- This project may not hold much weightage in resume since it is comparatively an easier project.

Tools and Libraries used:

- Python 3.7+
- Pandas
- Seaborn (visualisation)
- If UI is required we can utilise PyQt5 or Tkinter to build an executable or use flask to write restful services and render on webpage
- Matplotlib -> Graphs
- MongoDB
- Mongo for python driver.