

COP 4710
Database Design
Team Term Project: Spring 2018

Team design project: Car Parts Management System
Deadline: 4/25/2018

Team Number: 13

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Team Members' Contributions:

Bo Wu: Back-End functionalities, database setup

Donglin Yang: Front-End functionalities

Weiwei Su: Front-End functionalities, UI/UX Design

Introduction:

This is a car parts management system, which has a web interface and designed for small car parts dealers to use. The system is backed up by SQLite at the backend, and we use python Flask as our web framework to build this application.

On the Mid-term report we first implemented the Java+JDBC program for text-based system, but afterwards teammates are complaining about the difficulty of implementing a Java Command-line app. After the discussion we all agreed to scrap the previous work and start work on the current solution: a SQLite backed WebApp with Python Flask Frameworks.

Functionalities:

User login and register: the newly registered user's password will be hashed and stored into the database, so it will be relatively safe;

Load new part into the database: for this functionality, by default the first user in the database will be treated as the administrator of this system, only that user is allowed to load new part into the system;

View part: the user is able to see all of the parts that currently in the database;

Order: for this functionality, only non-administrator can use it since it does not make any sense that the owner of this system will order, the order is done through typing in the stock number of a part that in the database, if the stock number you typed in does not exist in the database, it will give you error;

Show orders: this will print out all the orders that in your shopping cart, as well as the total price;

Search by stock number: search part that has the same stock number with the user typed in;

Search by brand: this will give you all the parts that match the brand user typed in;

Pay: this will clean up all the orders in your shopping cart.

User Guide:

Please reference the README file in the source code folder.

Conclusion:

The front end is not very fancy especially when we willing to check the database (view parts, show orders), we have some technical issue when building the front end interface, but we will keep working on it.