**Problem design, A new online fruit store**

Background:

Students in CST program have web workshop last semester, and the group project in last semester is built an online fruit shop. It can help seller sell fruits to buyer and help seller to manage the cash flow. It also has a management system for administers to manage the products in selling. We will be upgrading this fruit store and expanding it into a brand-new online store.

Different：

Web workshop is just an introduction about web development. It has a lot of problems in that project. Especially in database, the restrictions of data type and relationships is deficiency in that project. The complexity of data structure in that project is too simple for a real online shop project.

In previous project, most group store the data in a single table, which is not easy for us to manage the data. And most student just built a shop system which can only provide a few products information for buyer, it not fit for showing when a mass of products is signed in the platform.

And we also find an interesting thing: although the requirements asked students need to give reception for buyer and have ability to show the history ordering, but some students use temporary records (such sessions) to finish that task, it will lose when the browser is closed, which also not fit for a real online shop.

Finally, this online shop system is having poor functionality compared to a real online shop platform, it didn’t have comment system, delivering address management, delivering tracking or post-selling services platform.

What will we do?

So, in this project, we decide to inherit the subject and background settings in that project and rebuild the whole database management system with new knowledge we have learnt in this class. In this online store, sellers can sell various products, such as fruits, cosmetics, clothing, electronic products, daily necessities and so on. In addition to seller data, product data, and buyer data, what we learned in this course can help us add more features to this project. It can be the shopping cart module, evaluation module, commodity logistics module, after-sales service module, or other modules that we usually use in the actual online shopping platform. The data in those modules can be linked with product table or user data table with foreign key restriction.

Advantage:

For us, this class is in order to enhance our knowledge for database managing. So, reused the front-end program means we don’t need to rebuild the wheel for this project and save time for completing whole project and can make us build a better system easier.