Group 0411 Project Walkthrough Outline

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Our projects contain 22 class, the most important Class are MainFunction. We split our project into 4 parts, they are:
1. Warehouse system
2. Picker System
3. Order System
4. Worker management system (Contain sequencer, loader,)
5. Main function

When the user start our program, it will try to read warehouse.csv, hr.csv, tranlationtable.csv to initiate all the systems, the program will read the 16order.txt which is the event file to receive commands and run the proper methods.

We implement a Java Command design patterns when we are reading the files and call different methods. So we have 5 type of Commands, which are PickerCommand, LoaderCommand, SequencerCommand, OrderCommand, RplanisherCommand. Each command has a execute method, it will run the required methods.

Picker ID is data we keep tracking, it will generate when we have enough free picker and orders. All the worker will be able to store and pass the Picker ID to the next worker. We generate the Picker ID by an algorithm relate to order id.   Worker will store the ID and use the ID to interact with Order System and Worker management system. So the System will be able to check if the worker did the correct task. Loader,Sequencer will also need the Picker ID to scan item, and load them into the trucks.

Our unit test coverage is about 90%.