CS3343 Software Engineering Practice

2022/23 Semester A

Group Project for Group 13

XBOX

Box Storage Management System

Release Summary

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1.Overview:

Box Storage System has three releases in total. Each version of the release has a significant improvement in features. Also, each release has bug fixings and small patches for updating features.

2.Progress:

2.1 Release 1.0:

It is the first release of our product, which is a blueprint version of our system. It supports Box allocation and stores for Admin check-in. The whole progress is only controlled by the Administer. It uses the command line approach to run the command. The Admin checks the Box situations and updates the information using the command line for the record.

```
Request -n 2
Success, Please remember the boxids 001, 002
```

Functions:

- 1. Request Boxes. Request a new Box for users to store things.
- 2. Store Boxes. Store the Box for the scheduled time and calculates the cost.
- 3. Return Boxes. Reset the Boxes to available status.

Patches:

- 1.1 Write the logic that user may return empty box.
- 1.2 Change the Database class to singleton.
- 1.3 Add detailed basic class for data operation like the RentableAllocator, RentableManager, RequestSearcher.
- 1.4 Details the status of the Rentable objects. Have more class implement the RenatableStatus class.

2.2 Release 2.0:

We provide the GUI component for the product. Provide a more understandable way to use the system. The Admin does not need to learn further the command of recording the boxes. And we have JSON files to protect the data so that the system can run anytime and place. We add login and register functions to login into the system. And all system output will be listed at the bottom of the UI.

	Select on	e command Back	
	Request Boxes	Store Boxes	
	Return Boxes	Search Requests	
Data output	t:		
Login in Succ Hello Admin	cess		

New Functions:

- 1. Provide login and register functions to login into the System
- 2. Add JSON files to store the records.
- 3. Comprehensive Graph UI

Patches:

- 2.1 Add the pop-ups for error message.
- 2.2 Fix some text label's position and content.
- 2.3 Adding new exceptions for command error.
- 2.4 Fix the bug of the data output is not ordered.
- 2.5 Fix the bug of the JSON file by using the relative address.

2.3 Release 3.0

An important improvement for release 2.0. We add a customer version of the system. Now the whole system is controlled by both Admin and the User. Instead of The Admin requests and stores boxes for check-in. The User requests new boxes and request requests for store or returns boxes. The Admin only needs to check the requests and confirm or reject them. In that case, the User can request and check boxes at any time without the Admin's assistance. The separate version of the system improves efficiency and lightens the burden of the Admin. And we canceled the register for Admin, so there only exists one Admin account, which will be provided by default.

User Interface:

	Select on	e c	ommand Back	
	Request new Box		Store Box	
	Return Box		Summary	
	undo		redo	
Data output	:			
Login Succes	s <user></user>			

Admin Interface:

	Select one command Back		
	Confirm Payment	Confirm Return	
	All Items	All Clients	
	All Requests	All Records	
Data output	t:		
Login Succes	s <admin></admin>		

New Functions:

- 1. Add the User version of the System. Separate the responsibility of Admin.
- 2. Change the logic of storing and requesting boxes.
- 3. Add undo redo command for both Admin and User.
- 4. Add summary command for lists the boxes for checks.

Patches:

- 3.1Add Interface classes to invoke the command for Admin and User.
- 3.2 Fix the bug for Interface, cancel the singleton pattern.
- 3.3 Fixing bugs for command intersections of Admin and User.

3.0 Release date:

Version	Release Date
1.0	24 th September 2022
2.0	10 th October 2022
3.0	25 th October 2022