Candidate Code: kly215

Criterion B: Design

I. Flowchart

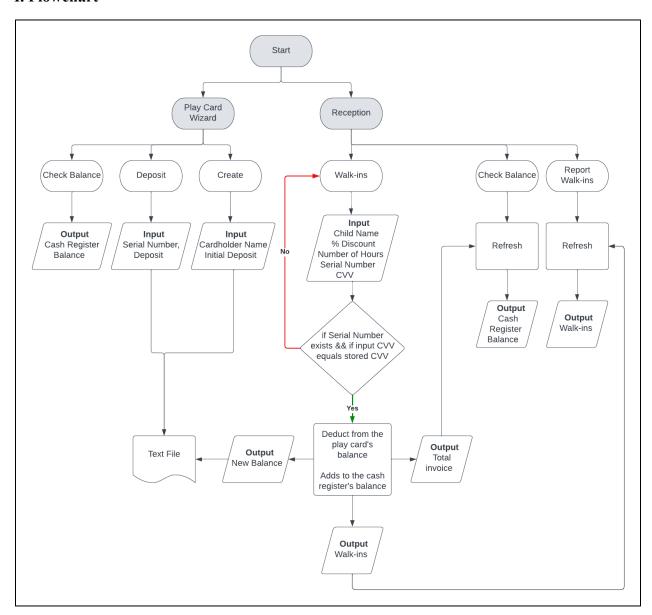


Figure 1 Flowchart for the Application

II. UML Class Diagrams



Figure 2 MainMenu UML

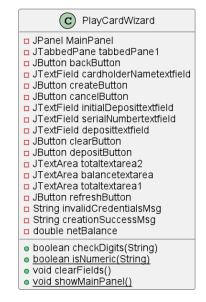


Figure 3 PlayCardWizard UML

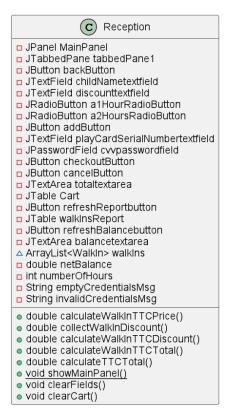


Figure 4 Reception UML

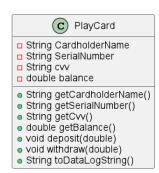


Figure 5 PlayCard UML

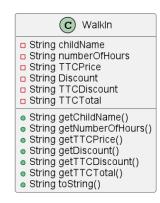


Figure 6 WalkIn UML



Figure 7 DataLog UML

III. Graphic User Interface

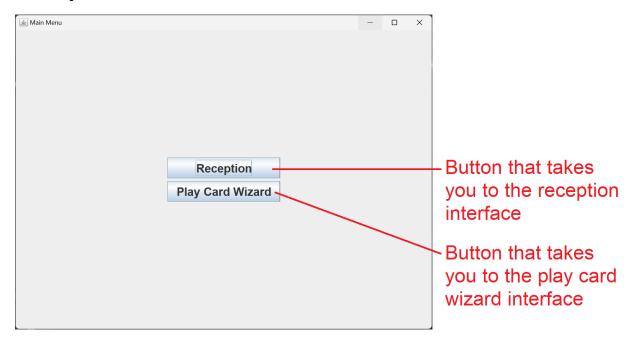


Figure 8 Main Menu Annotated

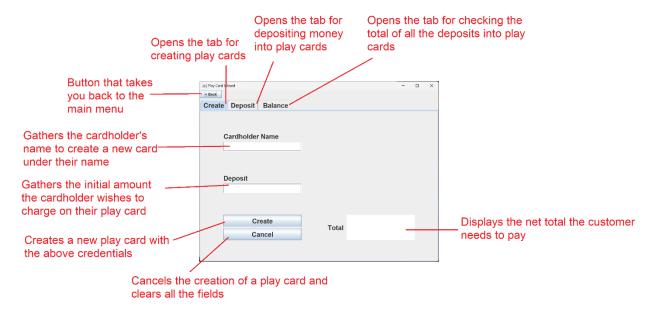


Figure 9 PlayCardWizard, Create Play Cards Annotated

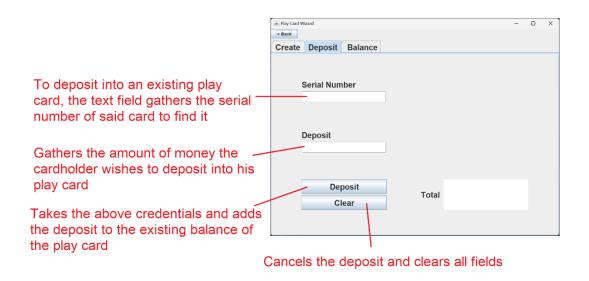


Figure 10 PlayCardWizard, Deposit into Play Cards Annotated

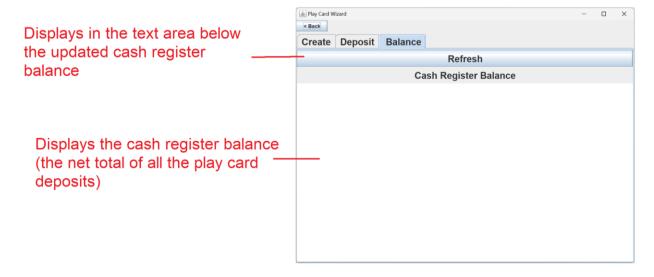


Figure 11 PlayCardWizard, View Balance Annotated

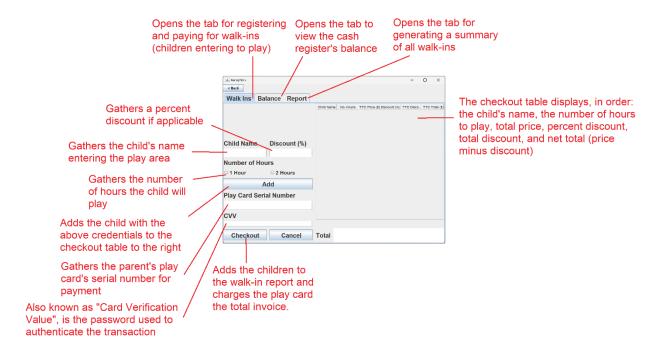


Figure 12 Reception, Register Walk-ins Annotated

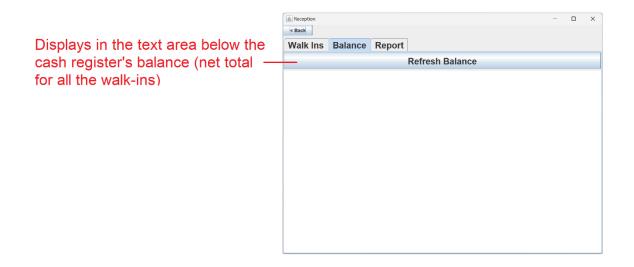


Figure 13 Reception, View Balance Annotated

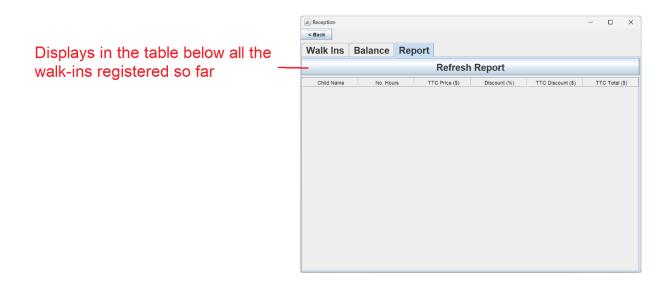


Figure 14 Reception, View Walk-Ins Report Annotated

IV. Schedule for Testing the Product

This application consists of two main sections: the Play Card Wizard, and the Reception. The application will be developed on the basis of modular programming, where the candidate develops both sections independently and then joins them together once completed.

At this point in the project, the graphical user interfaces are already done (as seen above). All the candidate has left is to write the code that makes the GUIs functional. It will take an estimated time of three weeks to complete.

Play Card Wizard Reception Create an abstract walk-in class with Write an abstract class representing a the necessary attributes and methods play card along with its necessary that allow for its creation in the attributes and methods that allow for reception interface. its creation in the Play Card Wizard Code the buttons to gather the values interface. necessary for the creation of a walk-in Code the buttons to gather the values from the input fields. necessary for the creation of a play Write methods that allow the reception card from the text fields. to access the play cards' balances to Write the necessary secondary storage charge it for walk-ins. methods that would allow for Add the necessary authentication depositing into the existing card at a methods to ensure that only the

later stage and to withdraw from it at	cardholder can access their play card
the Reception.	(using a CVV)
• Store and add the deposits to the cash register's balance.	 Store and add the walk-ins to the walk-ins' report.
	• Store and add the walk-in charges to the cash register's balance.

V. Test Plan

Action test	How to test and expected result
Test if the application starts up correctly	Click "Run" from the IDE and wait for the
	main menu to appear.
Check if the Play Card Wizard starts up	Click "Play Card Wizard" and wait for the
correctly	window to appear with all three tabs and their
	constituents.
Check if creating a play card works	Add sample values for the cardholder's name
	and initial deposit and check for the dialogue
	window to pop up and check if the text file
	for this play card is created.
Check if the play card is stored appropriately	Check if the text file has the serial number as
	its title and consists of the cardholder's name,
	CVV, and balance on separate lines.
Check if depositing into a play card works	Deposit into the created play card and wait for
	the dialogue window appears. Check in the
	text file if the balance increases.
Check if the Wizard's cash register balance	Refresh the balance tab and check if the
works	balance equals the sum of my initial deposit
	and second deposit.
Check if the reception starts up correctly	Click "Reception" and wait for the window to
	appear with all three tabs and their
	constituents.
Check if registering a walk-in works	Add sample values for the walk-in's child
	name, percent discount, number of hours, and
	click "Add". The input information should
	appear on the checkout table to the right.
Check if checking out works	Add the created play card's serial and CVV
	then click "Checkout" and wait for the
	dialogue to appear and then check the card's
	text file for if the balance decreases. The input
	fields and the table should clear.

Check if the cancel button works	Add sample values in the input fields then
	click "Cancel". The fields should empty.
Check if the reception's cash register balance	Refresh the balance tab and check if the
works	balance equals the sum of all walk-in charges.
Check if the walk-in reports work	Click "Refresh" and wait for all the registered
	walk-ins to appear in the table.