



Midnight's Café

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Application Scenario + Problem Statement

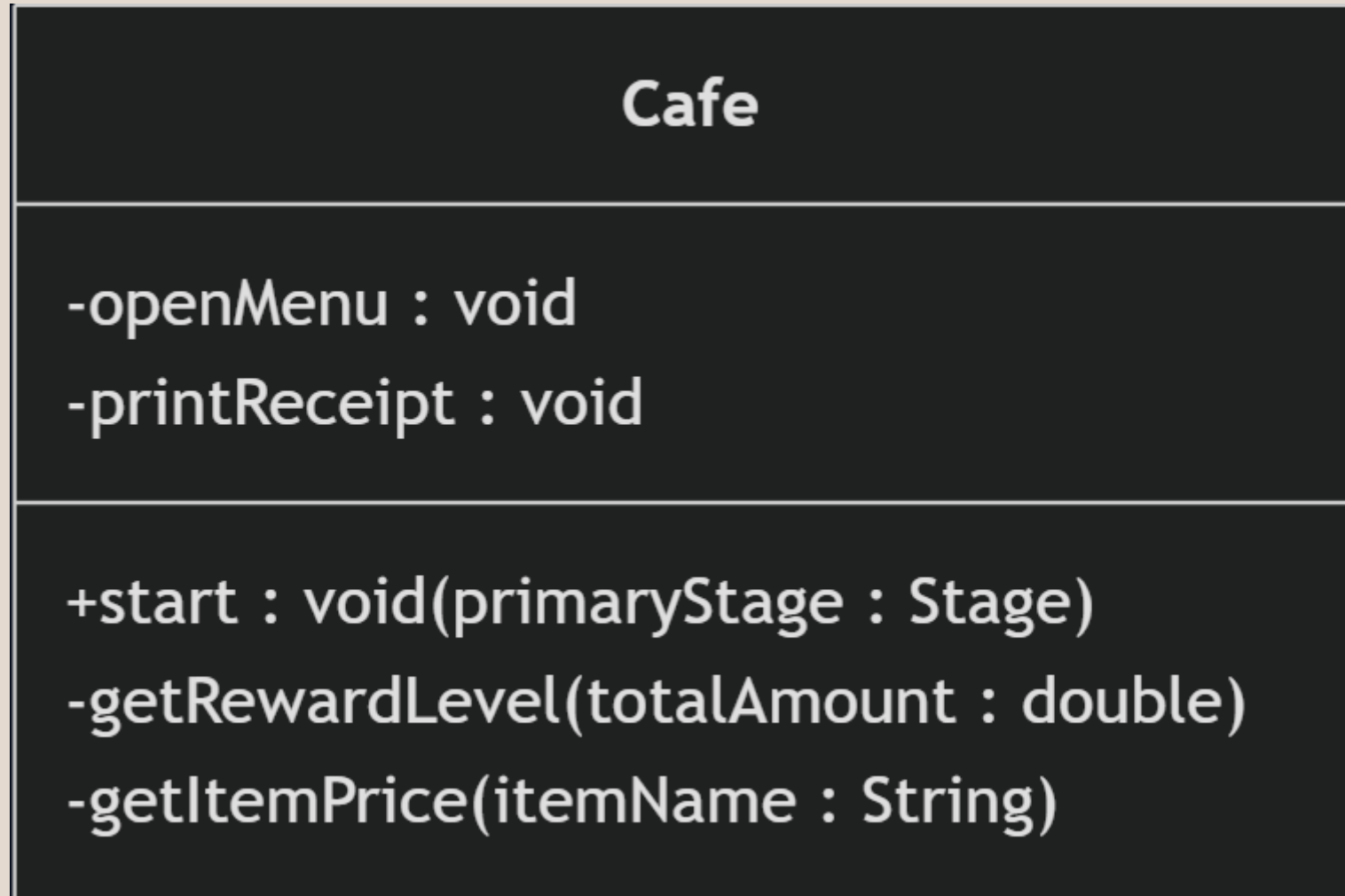
- I spend a lot of time at cafés, and I love to try different drinks they offer!
- This can be modified to deal with fast food, retail, etc.
- My past Python and SQL projects were based around cafés/food, so I wanted to carry that over into Java.
- Can give a brief overview of how ordering online works.

How Program Works and Method

This program allows you to order drinks from a café and then prints out a receipt. There are 6 options to choose from, and there is no limit to how much you may order. It also includes a button to reset your order if a mistake was made. The receipt includes the quantity of each item, the price, the total, your reward level based on how much spent, the employee's name and ID number, as well as a QR code that takes you to our website.

I started by drawing out on paper how I wanted the UI to look and then started with the basics (a window with a title, for starters). I worked on one window at a time before moving to the next one. I put the finishing touches on last (background colors, QR code website, ensuring everything was running).

UML Diagram



What I Learned


- JavaFX in detail/more hands-on experience
 - ImageView, HBox and VBox, Region, etc.
- Trial and Error
- Starting small and building up
- Time Management

Sample Demo

2nd Window


Menu:

Order whatever you would like!




Hot Black Coffee | \$2.00

Add to Order




Iced Matcha Latte | \$6.50

Add to Order




Sweet Tea | \$2.50

Add to Order




Espresso Shot | \$3.00

Add to Order



Vanilla Latte | \$4.00

Add to Order



Americano | \$3.50

Add to Order

Done ordering? Print your receipt:


Print Receipt

Made a mistake or changed your mind? Reset Order

Midnight's Cafe!

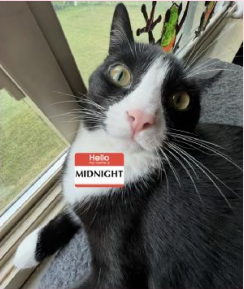
Welcome to Midnight's Cafe!

We are so happy to have you here!



Hello
MARSHALL

This is Marshall, your cashier.



Hello
MIDNIGHT


This is Midnight, the owner.

Ready to order? Click the button below:

Place Order

1st Window

Google



cafe.com

www.midnightscafe.com

www.midnightscafe.com

Midnight's Cafe Official Website !

Menu:

Hot Black Coffee - \$2.00

Espresso Shot - \$3.00

Iced Matcha Latte - \$6.50

Vanilla Latte - \$4.00

Sweet Tea - \$2.50

Americano - \$3.50

Reviews

Mady - "The Vanilla Latte is my favorite! 5/5"

Patrick - "Great cafe. Will visit again."

Marissa - "I love coming here with friends."

Dom - "5 stars because it's the best."

Download our App!

Receipt:

Vanilla Latte x1 = \$4.00

Hot Black Coffee x1 = \$2.00

Iced Matcha Latte x1 = \$6.50

Espresso Shot x1 = \$3.00

Americano x1 = \$3.50

Sweet Tea x1 = \$2.50


Total: \$21.50

Your Reward Level: Gold

Cashier: Marshall #202

Thank you so much for visiting!

Est. 2025



3rd Window

Website from QR Code!

Works Cited

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Strawpage, straw.page.



Demonstration Time!