Baylor Burgers (Iteration III Documentation)

By Francis Boyle, Patrick Boyle, Timmy Frederiksen, Johnny Acosta

Git, Website, Trello Links & Issue Tracking

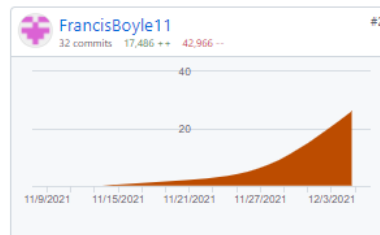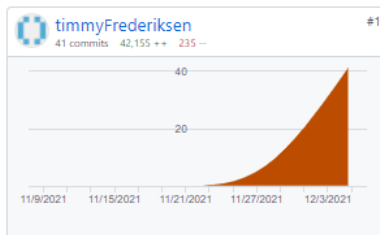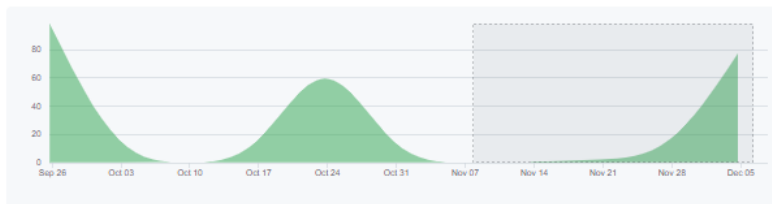Website: https://csi3471-kiosk-project.weebly.com

Trello: https://trello.com/b/xjHC0LGq/prowling-bears

GitHub:
https://github.com/timmyFrederiksen/GroupProjectFall2021

Git Analysis

https://github.com/timmyFrederiksen/GroupProjectFall2021

Total Commits: 96

Commits per Member:

Francis Boyle: 32

Patrick Boyle: 10

Timmy Frederiksen: 41

Johnny Acosta: 13

November 8, 2021 – December 8, 2021

Overview	
11 Active Pull Requests	0 Active Issues

⌥ 11	⇅ 0	⊘ 0
Merged Pull Requests	Open Pull Requests	Closed Issues
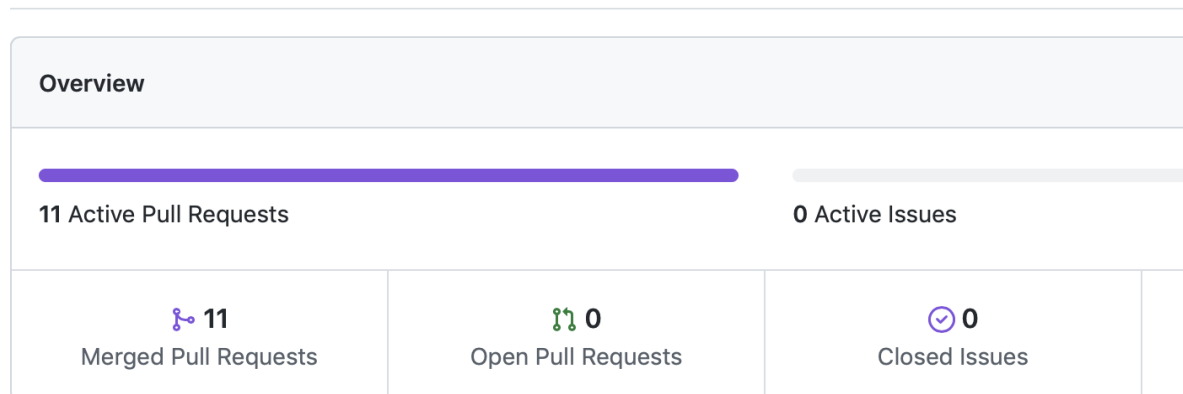
Excluding merges, **4 authors** have pushed **96 commits** to main and **96 commits** to all branches. On main, **288 files** have changed and there have been **17,868** additions and **411 deletions**.
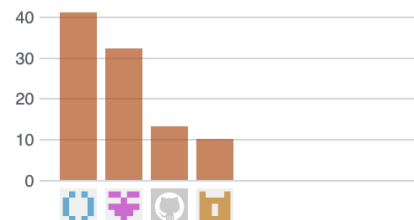
Timecards Report

Francis Boyle – 36 hours

- Attended Meetings
- Presentation Classes:
    - CartGUI, CartItemPanel, ItemGUI, LoginGUI, MainMenuGUI, ManagerLoginGUI, ManagerMainPageGUI, ManagerMenuGUI, MenuBar, MenuItemPanel (with input validation)
- Loaded JavaDoc
- Input validation for Manager Account
- Changed functions, classes, and variables to ensure code quality
- Complete User Guide
- Videos of Use Cases: Add Item to Cart, Remove Item from Cart, Search for an Item
- Assembled Documentation PDF

Patrick Boyle – 30 hours

- Attended Meetings
- Persistence Layer
- Create, Read, Update, Delete from Database
- Menu User Interface
- Establish Connection to and from the Database
- Establish Both POV of Menu Display
- AddItemToCartGUI, CategoryGUI, ItemGUI
- Add and Edit Item Input Validation
- JUnit of all aspects of the Database
- Assisted in Business Layer

- Videos of Use Cases: Edit, Add, Remove Item to Menu

Timmy Frederiksen – 23 hours

- Attended Meetings
- Business Layer
- Initial Login/Registration System
- Payment GUI pages (with user input validation)
- Color to the GUI
- JUnit & Test Documentation
- JavaDoc
- Videos of Use Cases: Pay, Redeem Offer, Manager Login

Jonathan Acosta - 20 hours

- Attended Meetings
- Manager JUnit Test
- Cart and Purchase connection and refinement in function and interface
- Manager Registration Validation
- Call Help and Registration implementation with interfaces
- Videos of Use Cases: Call Help, Display Menu, Manager Sign-Up

Issue Tracking

Link: https://trello.com/b/xjHC0LGq/prowling-bears

Issues per Member

Francis Boyle: 13

Patrick Boyle: 13

Timmy Frederiksen: 7

Johnny Acosta: 8

JUnit Test Coverage

Category
- Tests object creation with constructor and tests that assignment goes as expected
- Tests the addition of items into the Category
- Tests that adding a duplicate item will not make a copy in the Category

Cart
- Tests object creation
- Tests adding an object to the cart
- Tests calculation of price
- Tests the calculation of price with a discount

Database
- Tests the save functionality to the database
- Tests the delete functionality from the database
- Tests the find functionality to find an object in the database
- Tests the find all functionality to retrieve all objects in the database

Manager
- Tests the initialization of a Manager object
- Tests the equals function for Manager objects
- Tests the hash function of the Manager object
- Tests the checking for existence of manager objects

FoodDescription
- Tests the creation of FoodDescription object with **both** constructors
- Tests the hashcode and equals functions

CartItem (in CartTester) -> no CartItemTester because there is only getters/setters and a constructor, so it makes no sense to test with JUnit
- Tests creation of the object

- Tests its addition to the cart

Test Plan

1. Add Item to Cart - 2/2
   - Check quantity added is a valid quantity
     - While in the Drinks Category in Main Menu Selected Water and ordered seven to my cart at one dollar each. In the cart it appeared I had seven waters with the correct price at seven dollars. When it "charged the cart" it charged seven dollars for the seven water bottles.

     - While in the Food Category in Main Menu Selected Pizza and ordered two to my cart at five dollars each. In the cart it appeared that way and also in the purchase.

     - This process was done extensively with various different items and item quantities.

   - Check that the cart is updated
     - Selected Order on Matcha Tea item in Drinks Category and Ordered five with the description Hot!!!. In the cart menu it appeared I ordered the item in quantity of five with the correct description.

     - This process was done extensively with various different items and item quantities and descriptions.

2. Remove Item from Cart - 1/1
   - Check that the cart is updated after the removal of the item.
     - Selected Remove on the Item Water I had in my cart and the item was no longer available.
     - Selected Remove on the Item Pizza with a unique quantity and description I had in my cart and the item was no longer available.

     - This process was done extensively with various different items and attributes of the items.

3. Search for Item - 1/1
   - Check that navigates to right menu item
     - I was able to navigate to the item and Water, Pizza, Uzene and various different items.

4. Manager Login - 2/2
    - Check that invalid login credentials don't gain entrance
        - I entered the not-registered username "" and password "" and was unsuccessful in logging in.
        - I entered the not-registered username "Hacker!!" and password "12345" and was unsuccessful in logging in.
        - This process was done extensively with various different registered usernames and passwords with different characters
    - Check that valid credentials do gain entrance
        - I entered the registered username "Test" and password "1234" and was successfully logged in.
        - I entered the registered username "!!!!" and password "!!!!" and was successfully logged in.
        - This process was done extensively with various different registered usernames and passwords with different characters

5. Manager Sign-Up - 2/2
    - Check that there aren't two managers with the same information
        - I registered username "1234" and password "1234" and then went to register them again as it was not allowed and a message popped up
        - .This process was done extensively with various different pairs of usernames and passwords with different characters
    - Check that the manager is able to log in afterwards
        - I registered username "Username" and password "Password" and was successfully able to register
        - This process was done extensively with various different usernames and passwords with different characters

6. Redeem Offer - 3/3
    - Check that when discount is rolled on it applies to purchase
        - I ordered a cart with a price of 100 dollars and received a 10% discount and was correctly charged 90 dollars.
        - This process was done extensively with various different discount amounts and cart prices.
    - Check that when discount is not rolled on purchase price stays the same
        - I ordered a cart with a price of 2.25 dollars and received a no discount and was correctly charged 2.25 dollars.
        - This process was done again with various different prices.
    - Check that when no discount is pressed price stays the same
        - I ordered a cart with a price of 5.50 dollars and was charged 5.50 when a discount was not attempted
        - This process was done again with various different prices.

7. Pay - 8/8
   - Check that card payment has valid card number length (throughout the other specifications were met)

      - Registered card numbers with incorrect lengths 0 and 20 and cards were not accepted
      - Registered card numbers with correct lengths 14 and 15 and cards were accepted
   - Check that card payment has only numbers
      - Registered card number with incorrect number "768976jsdfh!!!" and was not accepted
      - Registered card number with correct number 1234567891234 and was accepted.
   - Check that card payment has valid CVV length
      - Registered CVV with incorrect lengths 0 and 4 were not accepted
      - Registered CVV with correct lengths 3 and 4 and cards were accepted
   - Check that card CVV has only numbers
      - Registered card with incorrect CVV "7#y>" and was not accepted
      - Registered card number with correct number 1234 and was accepted.
   - Check that card expiration date was given a valid month number
      - Registered cards with incorrect format for expiration dates "dsf", "!21", "1avef" were not accepted
      - Registered cards with incorrect month expiration dates -12, 13, 0 and were not accepted
      - Registered cards with correct month expiration date and 1, 7, 12 and was accepted.
   - Check that card payment is valid given valid parameters
      - Throughout testing cards with all fields having correct parameters else they were not accepted
   - Check that payment for non-card payments is accepted
      - Payment of cart with price 21.00 was successfully completed, with manager assistance
      - This process was done again with various different carts.
   - Check that the order number is returned correctly
      - Throughout testing each order brings up a correct unique order number
8. Add Item to Menu - 2/2
   - Check that when a manager adds an item it appears with the correct information
      - Added the item Pepsi to the menu. Following this action the item did appear in both the customer and manager POV of menu
      - This process was done extensively with various different menu items
   - Check that the item goes to the correct category

- Added the item Coffee to Drinks Category. Following this action the item did appear in the Drinks category in customer POV and as a drink in the manager POV
- Added the item Muffins to the Food Category. Following this action the item did appear in the Food category in customer POV and as a Food in the manager POV
- This process was done extensively with various different menu items from different categories.

9. Delete Item from Menu - 1/1
   - Check that the item no longer appears in the menu
     - Removed the item Coffee from the menu. Following this action the item did not appear in either the customer or manager POV of menu
     - This process was done extensively with various different menu items

10. Edit Item in Menu - 3/3
    - Check that when an item is edited it exists and has the new information
      - Edited item name "Cake" with price 5.00 and with description "Tasty" to name "Chocolate cake" with price 7.00 and with description "Unhealthy" and the change was correctly made.
      - This process was done extensively with various different menu items changing different attributes.
    - Check that when items change across categories they pop up in the new category and not in the old category
      - Edited item slushie in Drinks category to food slushie and the correct change was made in both the menu POV.
      - Edited slushie back to Drinks category and the correct change was made in both the menu POV.
    - Check that items do not appear twice after editing
      - Throughout testing no item appeared twice

11. Display Menu - 2/2
    - Check that the menu displays from the manager screen
      - Throughout testing the Menu displayed the correct display on manager POV.
    - Check that menu displays when in Customer POV
      - Throughout testing the Menu displayed the correct display on Customer POV.
12. Call Help - 1/1
    - Check that a message shows to indicate help is on the way
      - Went to each help button and a message was shown that help is coming

User Guide

Baylor Burgers

Developed by Francis Boyle, Patrick Boyle,
Timmy Frederiksen, and Johnny Acosta

What is Baylor Burgers?

Baylor Burgers is a self-order kiosk for restaurants. Baylor Burgers has features implemented that allow customers to add, delete and customize items for their order. Baylor Burgers also allows for ownership/managers to change the menu from the system. The system also facilitates payment and allow customers to redeem deals. Our top priority has been to provide a simple and easy-to-understand user interface that will allow the managers, menu, and customers to interact seamlessly.

1. Choosing a Perspective

The Baylor Burgers App has two perspectives implemented. Namely, the Manager and Customer perspectives.

- If you are a manager, use Manager Login to enter.

- If you are a customer, use the Customer View option.

2. Manager Perspective

Manager Sign-up & Login

- To sign-up, simply enter a non-empty desired username and password.

  o If that username and password is not associated with another account, the new manager account is created.

  o If that username and password is associated with another account, a warning dialog box will appear.

- To login, enter the username and password of a valid manager account.

  o If invalid information is given, the system will deny access.

Manager Menu

  o There are three operations a manager can do to the menu: add an item, edit an item, and remove an item.

  o To add an item, simply click the "Add Item to the Menu" button and enter valid values.

  o Valid values are:

§ The name must be at least one and no more than 20 characters long.

§ The description must be at least one and no more than 255 characters long.

§ The price must be an integer or double (cannot leave empty).

§ The category is either "Drinks" or "Food.

o To edit an item, simply click on the "Edit Item" button next to the item you desire to edit. The same value parameters as mentioned in the previous instruction apply.

o To remove an item, click on the "Remove Item" button next to the item you desire to remove. This will remove the corresponding item from the menu.

Manager Extras

o At the top of many manager windows is a menu button. This menu includes the "Back" operation. Once pressed, it will close the current window and open the window that was previously opened.

3. Customer Perspective

Customer Main Menu

- Once the Customer View is opened, the customer will be presented with two item categories. Namely, Drinks and Food.

Item Categories

- Each item category has their respective items. The category is chosen by the manager when an item is inserted into the menu. Thus, these items come from the menu that the managers can manipulate.

Adding an Item

- Each item in both item categories is represented by a button. Once the button is pressed, a tab with the item's details and description is provided. Also on the page is a button with the option of ordering an item.

- To order an item, press the "Order" button. This will prompt the user with customization possibilities. The two possibilities are quantity and a textbox for the user to any enter any other specific preferences for the order.

- On the purchase tab, there are two options: purchase and cancel. To cancel an order, the user can simply click "Cancel" or exit the tab. To purchase, the user can press "Purchase" which will add the item to the cart.

Viewing Cart and Other Customer Extras

- At the top of many customer windows is a menu button. Like the Manager Perspective, this menu includes the "Back" operation. Once pressed, it will close the current window and open the window that was previously opened.

- Many of the customer windows have up to two more menu options: Help and Cart.

  o Help operation

    § The "Help" operation opens a dialog which the user can click if they desire help.

  o Cart operation

    § The "Cart" operation opens the user's cart. From here, the user can perform many more operations with the cart.

Cart Operations

- Once the user in viewing the cart, they can perform many more procedures.

- This includes "Checkout" and "Remove Item" only if there is at least one item in the cart.

- Remove Item

o To remove an item, click the "Remove Item". This will remove the item from the cart and show the remaining items, if any.

- The other operation is checkout.

Checkout the Cart

- To check out the cart, start by clicking "Checkout". This will bring the user to the "Pay for Cart" tab.

- When the user opens the "Pay for Cart" tab, the user is presented with the total price of the cart along with several options.

- These options are: "Card", "Other", "Cancel", and "Press for Discount".

- Cancel operation

   o The cancel operation will simply exit the user from the "Pay for Cart" tab to the "Cart" tab.

- Press for Discount

   o The press for discount operation allows the user to receive a discount price for its cart.

      § The user has a:

         · 1/1000 chance of getting a 100% discount. In other words, the cart is free.

- · 1/100 chance of getting a 50% discount. So, the cart would be half price.

- · 1/10 chance of getting a 10% discount.

o The other two options are outlined below.

Card Payment

- To pay with card open the "Card" option.

- Then, enter the proper values.

- The proper values for the card are as follows:

    o Card Number: A number with 13-19 digits (inclusive).

    o CCV: A number with 3-4 digits.

    o Expiration Month: A number from 1-12 (inclusive).

    o Expiration Year: A 4-digit number.

- To cancel the payment, press "Cancel".

- Once valid input is entered, to buy the cart press "Complete Payment".

    o This will bring up a receipt that the user can either exit or agree to.

§ If the user exits, the user is returned to the "Pay for Cart" tab.

§ If the user agrees to the purchase, the cart is sold, and the program successfully exits. The application has done its job correctly.

Other Payment

- If the user wants to proceed with a payment method that is not a card. The user may click "Other".

- This will require a manager to sign-in to verify that the transaction has been processed successfully. Once again,

§ If the user exits, the user is returned to the "Pay for Cart" tab.

§ If the user agrees to the purchase, the cart is sold, and the program successfully exits. The application has done its job correctly.