# Dan's Frappuccino Paradise

Group 8

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## **Kollin Murphy**

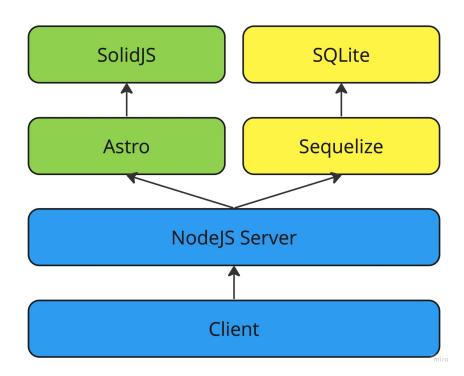
## Project Overview

### **Project Architecture**

In the early stages of the project, we proposed several different types of architecture. These included a Django full-stack application, a React frontend & ExpressJS backend, and Astro with a SolidJS frontend.

Due to a lack of confidence in our abilities to create a clean project using Django, we decided to use Astro. Astro is modern site builder that allows developers the freedom to use any front-end Ul library. We decided to pair it with SolidJS due to its simplicity, reliability, and performance.

Furthermore, one of our team members had significant experience using Astro and was confident that it had a small enough learning curve to use for this project.



## **Project Design**

To design our project, we first wrote up a complete requirements document. With our requirements in hand, we were able to design a low-fidelity prototype as a group. We used brainstorming techniques where every idea has merit to generate as many ideas as we possibly could. We explored some of those ideas as we drew out wireframe sketches, and discarded others that weren't as promising.

At the end of our design meeting, we had a 12-page design document with sketches of each page of the website. This served as a starting point for the rest of our project. We frequently referred back to it throughout the development process.

## **Agile Practices**

#### Planning Poker

 This allowed us to express our expectations of the duration of various tasks without any anchoring of the estimates. This helped in dividing tasks between team members and assigning story points.

#### Daily Standup Documents

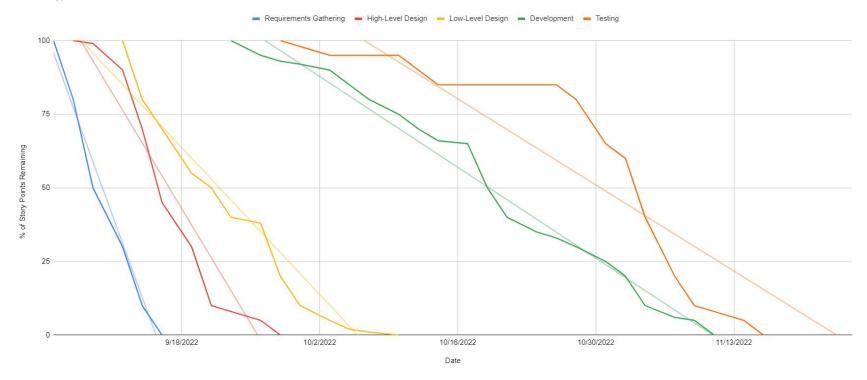
 These regular documents helped us to stay focused and to follow up on previous tasks. It made sure that we were able to account for any potential loose ends during the development process.

#### Sprint Planning & Retrospective Meetings

- During our sprint planning meetings, we were able to look at the requirements document and create tasks to accomplish specific requirements.
- During our retrospective meetings, we were able to evaluate the direction the project was heading and ensure that the requirements were being successfully met.

#### Project Burndown Chart

Dan's Frappuccino Paradise



#### **Burndown Chart**

### **Team Velocity**

- Sprint 1 (9/5 9/16): 34 points per sprint
- Sprint 2 (9/19 9/30): 46 points per sprint
- Sprint 3 (10/3 10/14): 23 points per sprint
- Sprint 4 (10/17 10/28): 24 points per sprint
- Sprint 5 (10/31 11/11): 35 points per sprint
- Sprint 6 (11/14 11/25): 5 points per sprint

Average velocity: 27.8 points per sprint

### **Deployment**

The project is now ready to move into the deployment stage.

We have written unit tests for all API handlers using the Jest testing framework and have achieved 100% test coverage. This gives us significant confidence in the correctness of our code. Regression tests have also been implemented. We plan to integrate the tests as part of the CI/CD process as we prepare for deployment.

For deployment, we plan to use Netlify with the Astro Netlify Adapter. We will setup a MySQL database using Amazon Web Services RDS to host the persistent storage.

For CI/CD we will create a GitHub Action to first run the unit tests and then start the deployment on Netlify if all tests pass.

### Caden

## Requirements Tracking

## Placing an Order

## Completing an Order - Requirements

- An authenticated Account ("the Account") is presented with a list of all Products, each with an image and a price
- When the Account selects a Product, they are taken to a Product page which lists the Visible ProductIngredients, each with a quantity, and a size selector, from which they can choose Small (8 oz), Medium (16 oz), Large (24 oz)
  - Medium (16 oz), Large (24 oz)
    - Changing the Size will modify the count of each ProductIngredient by a scale of 1x (Small), 2x (Medium), or 3x (Large), which will in turn affect the item price
    - The Account can add new ProductIngredients to the item, and remove ProductIngredients from the item

- The Account can click a **Place Order button** which will do the following:
  - Create an Order if there is no unpaid order for the associated Account
  - Add an OrderProduct to the Order
  - Add any applicable OrderAddOns to the OrderProducts
  - Place the Order
  - Redirect them to their Account page,
     where they can see recent Orders and
     their current fulfillment status

Employees can **order on behalf** of another User on this page by searching for them by their username

## **Completing an Order - Scrum Tasks**

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Visual design for Order Drinks Pages

(ans-frappuccino-paradise #31

DB Model for Order

(ans-frappuccino-paradise #32 · · ·

DB Model for OrderProduct

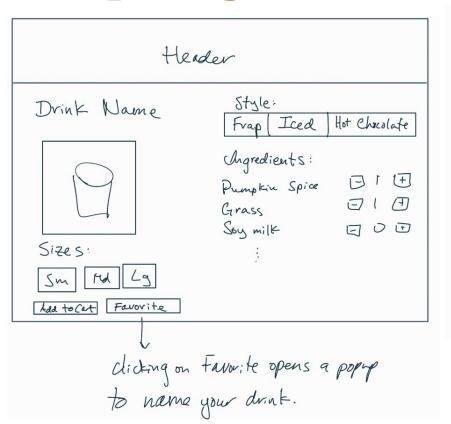
dans-frappuccino-paradise #56

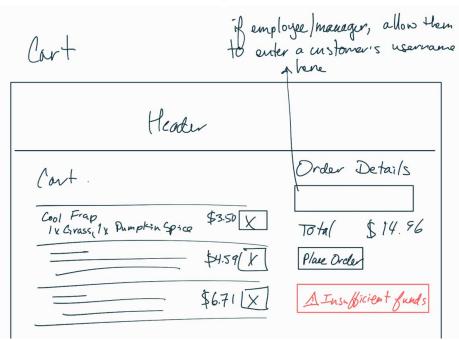
Drink order page needs account name entry

dans-frappuccino-paradise #55

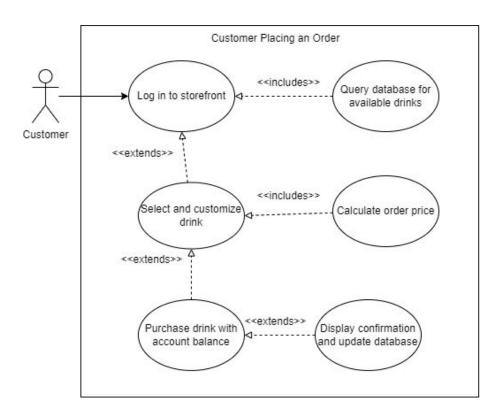
Add Functionality for Submitting Order

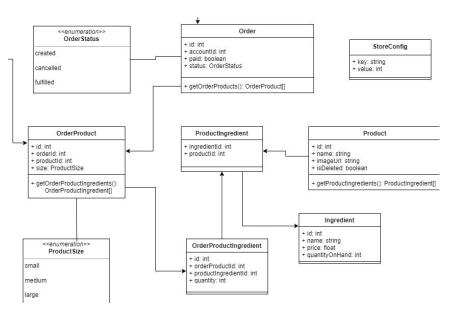
## **Completing an Order - Low Fidelity**



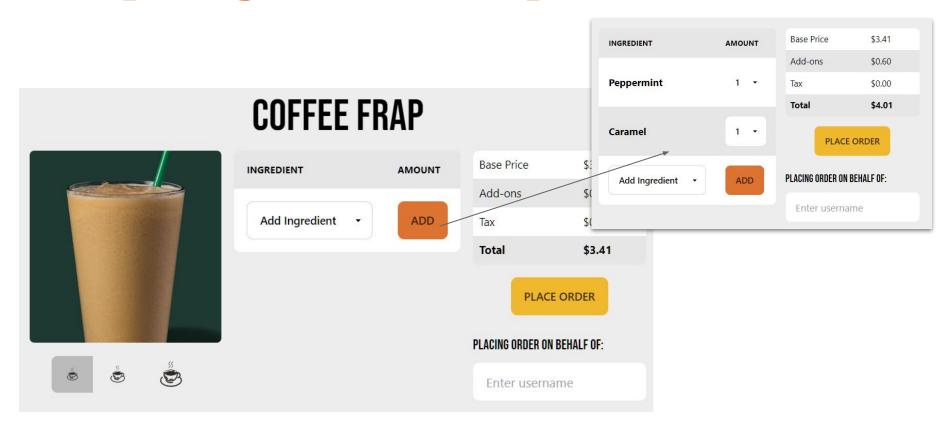


## **Completing an Order - Diagrams**





## **Completing an Order - Implementation**



## WELCOME, DAN!

You currently have \$95.99 in your account.

Money to add \$ 0

ADD MONEY

#### **ORDER HISTORY**

ORDER	STATUS	DATE	TOTAL	PURCHASE	REORDER
#2	purchased	11/21/2022 2:06:44 PM	\$4.01	Coffee Frap • Peppermint x 1 • Caramel x 1	ORDER AGAIN

### **Trenton**

## Requirements Tracking

## Fulfilling an Order

## Fulfilling an Order - Requirements

- After a "user" account places an order, they can see a list of their orders on their account page
  - This list is created by filtering from a list of all orders where the ID equals the user ID
- This page will now include a "purchased" order
- An employee or manager account is presented with a **list of all orders** that aren't completed
  - This list is created by filtering from a list of all orders where the order status equals "purchased"
- When the employee or manager account clicks "FULFIL ORDER", it shifts the status of the order from "purchased" to "fulfilled"

## Fulfilling an Order - Scrum Tasks

odans-frappuccino-paradise #31

DB Model for Order

(ans-frappuccino-paradise #15)

Visual design for Employee Home

## **Fulfilling an Order - Low Fidelity**

User

Header Balance Current: \$5,97 Add Orders Order # 123 Mocha Latte. /x Cross. \$5.93 Fulfilled Employee - Orders

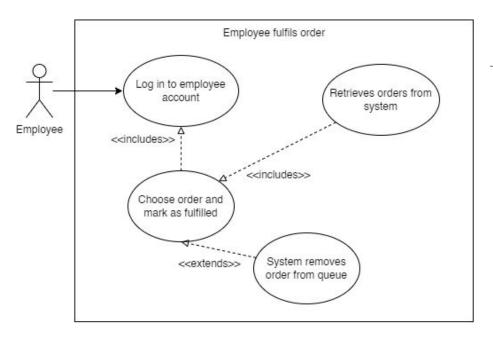
Orders | Hows

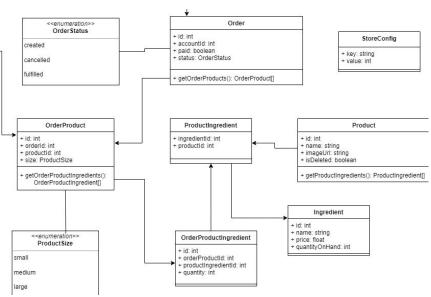
Order # 123

Ix Hoche Latte
- Ix Crass
- Ix Pumpkin Spice

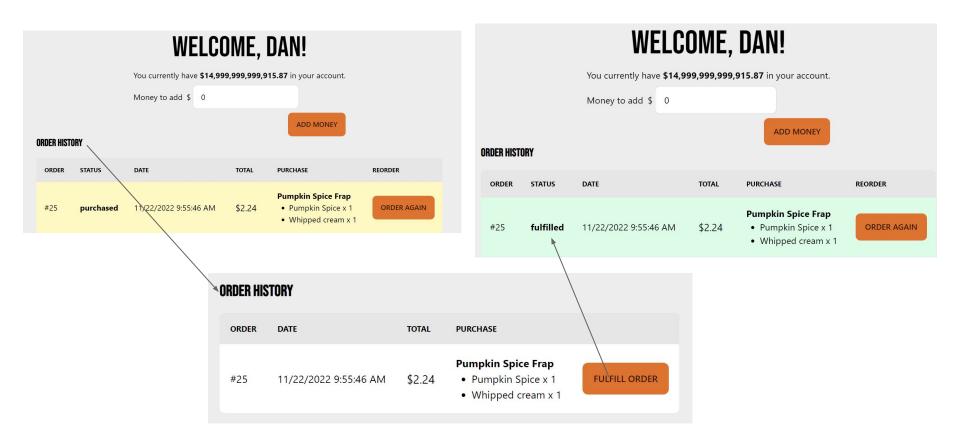
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## Fulfilling an Order - Diagrams





## Fulfilling an Order - Implementation



**John** 

## Requirements Tracking

## Adding Inventory

## **Adding Inventory - Requirements**

- After the manager has logged into their manager account they can see the manager page which includes the current inventory for each item
  - This list is stored in the database and updated with each order placed
- This page will now include "Place An Order"
- A manager account is presented with a **list of all ingredients** and the price for ordering more
  - This list displays quantity and price per unit, as well as order quantity and cost to place an order
- When the manager clicks on "Place An Order", the store balance and inventory quantity will change to reflect the order quantity and cost

## **Adding Inventory - Scrum Tasks**

odans-frappuccino-paradise #16

Visual design for Manager Home

odans-frappuccino-paradise #38 •••

Add 'Ingredient' to data base

dans-frappuccino-paradise #47

Add Functionality for Inventory

## **Adding Inventory - Low Fidelity**

Manager Header Truentory Employees Store Manager - Inventory

Name	Qty	Price	Order	
Grass	271	\$0.17	100	<b>^</b>
Pumplein Spice	319	\$0.09	0	2

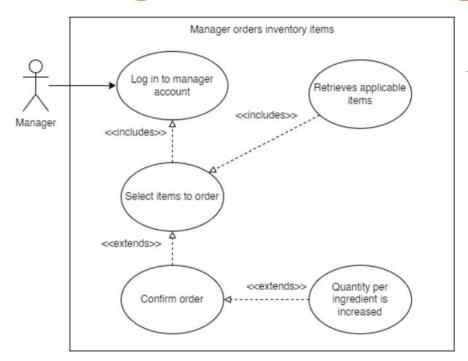
Total: \$ 17.00

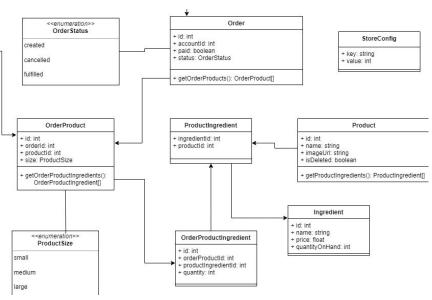
Manager -> Store Current Balance: \$17,803.17

\$ 170

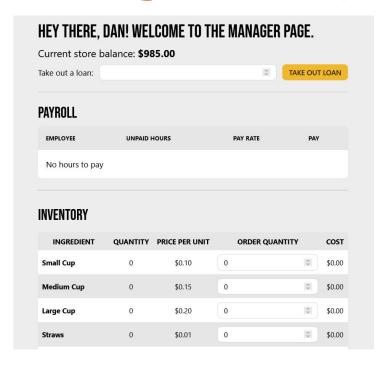
Take out loan

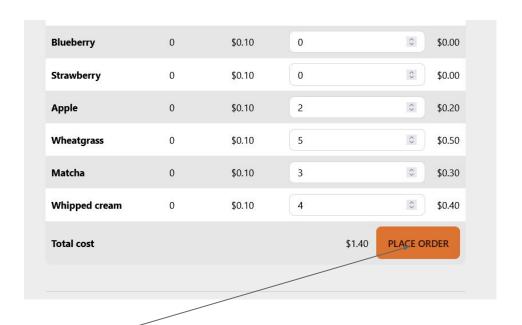
## **Adding Inventory - Diagrams**





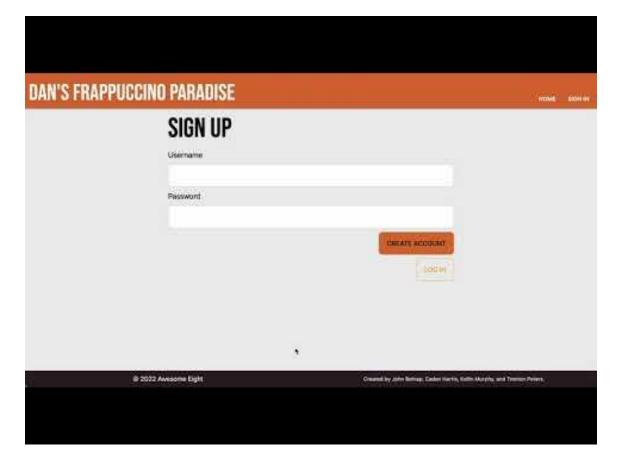
## **Adding Inventory - Implementation**



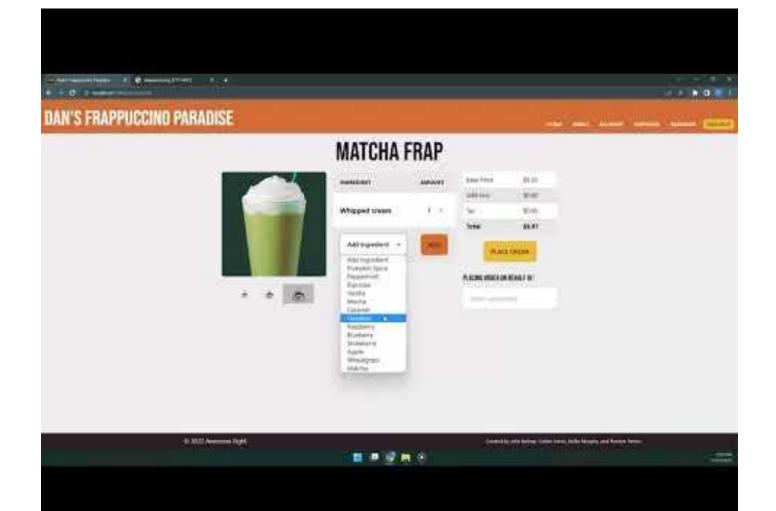


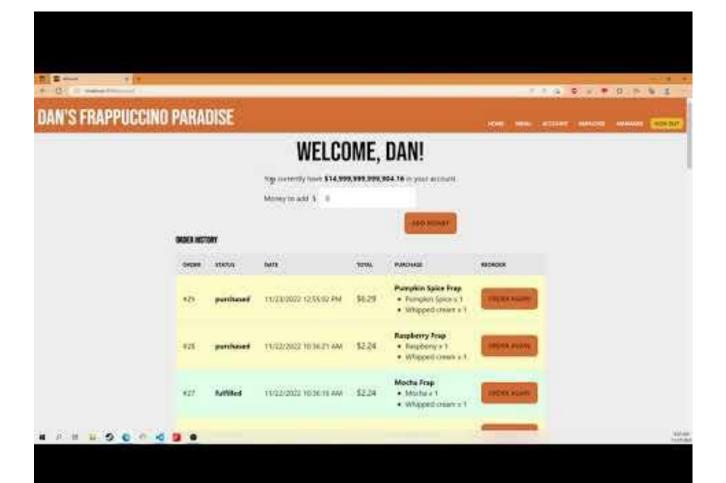
Current store balance: \$983.60

## Screen Captures



**Creating an Account** 





## Fulfilling an Order



Adding Inventory

### Resources

https://docs.astro.build/en/getting-started/

https://daisyui.com/

https://www.solidjs.com/docs/latest/api

https://tailwindcss.com/docs/installation

https://sequelize.org/docs/v6/getting-started/

## Questions?