



Project Design and Management

Team 31

Joanne Liu
Brandon Cisneros
Keeley Mahoney
Alyan Tharani
Vittoria Cicalese

Executive Summary

For Project 3, we are aiming to make a Point of Sale (POS) system specifically designed for Rev's Restaurant. Our goal for this project is to completely revise Project 2, and completely change REV's currently obsolete POS. Our advanced system was developed to further engage the user's experience by providing accessibility features for people with visual impairments and technological limitations, and one of our aims was to allow them to interface with a clean and user-friendly front end.

The focal point of our project is to develop a POS System that includes an intuitive user interface for seamless order input and customization; real-time analytics for inventory management and trend identification; and comprehensive accessibility adjustments like translation APIs, text enlargement, and high-contrast settings. These innovations are designed to cater not only to the operational demands of staff but also to elevate the dining experience for customers, ensuring that everyone, regardless of their physical abilities or familiarity with technology, can navigate the system with ease.

Within our team, we will have the project broken down into sprints and all of us will have individual parts we have to complete within these sprints. The collaborative nature of our team, through the use of sprints, allows for a dynamic development process, responsiveness to feedback, and adaptability to changing requirements, ensuring the delivery of a high-quality, user-focused product.

Furthermore, this project stands to bridge the gap between accessibility and operational efficiency within the service industry. By addressing both the logistical challenges faced by restaurant management and the diverse needs of the customer base, our application not only promises to enhance the profitability and customer satisfaction for Rev's but also sets a benchmark for our team's skills.

In conclusion, our team's POS system represents a strategic investment in the future of restaurant operations, promising significant returns in terms of operational efficiency, customer satisfaction, and inclusivity. We are confident that our solution will serve as a catalyst for transformative change in the service industry, paving the way for a more accessible, efficient, and customer-centric dining experience.



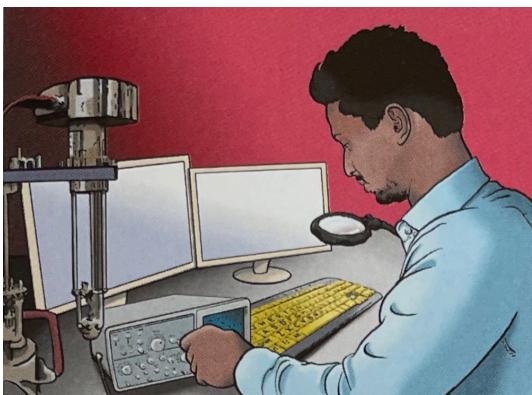
Personas and User Stories



Maria (Cashier)

Maria is a healthcare professional who is new to technology as her first computer was her phone. She is the cashier within our scenario, and because she is new to technology, we must make our application very simple for a low margin of error for her taking orders. Furthermore, we must use a translation API within this application as Maria is proficient in Spanish, so we must have our application adapt to her needs. Like I said earlier, because she is not too tech savvy, we must make sure the text and the ordering platform is very simple for her needs, and lastly, because of her

immigrant family background, she provides us with the ability to connect with people from various backgrounds, making her an invaluable asset to the team.



Vishnu (Manager)

Vishnu, similar to us, is an engineer. He has developed a focus on medical technology which has allowed him to take the role of manager. Despite his low vision due to glaucoma, Vishnu is still able to adapt to technological needs within Rev's as we will introduce text enlargement and contrast adjustments allowing him to oversee operations efficiently. Vishnu's ability to navigate the digital world with ease and understand our deliverables for this project allows him to understand the technology we are making, and empowers him to

lead his team towards excellence.



Carol (Customer)

Carol is a grandmother who has adapted to technology through time with the help of people around her. Because of her battle with macular degeneration and a slight tremor in her hands, Carol has learned to navigate her digital life by enlarging text in her browser, so we are going to add this feature to our customer order screen for people with similar disabilities. Carol is determined to remain independent. This leads us to implement more



usability features in our self order kiosk which help her further adapt to new technology.

User Stories

1. As a manager I want to be able to view and change the inventory so that I can keep our products up to date
Elaboration: This feature is crucial for ensuring that we never run out of popular items and can quickly remove or replace ingredients that are not in season or have become unavailable. It helps me maintain an efficient supply of menu items, allowing us to meet the customers' satisfaction as we have all the menu items at all times.
2. As a manager I want to be able to view the various trends and reports so that I can see what trends are prevalent in the restaurant
Elaboration: This insight is invaluable for making data-driven decisions about menu adjustments and marketing strategies. By understanding customer preferences and sales patterns, I can tailor our offerings to maximize customer satisfaction, ensuring we stay ahead of market trends and meet our diners' evolving tastes.
3. As a manager, I want to be able to edit menu items and change price and ingredients
Elaboration: This flexibility allows us to quickly respond to quick change in ingredient availability and cost, seasonal changes, and customer feedback. It's essential for keeping our menu up to date and aligned with our customers' expectations. This adaptability not only helps in managing costs effectively but also in enhancing the dining experience by offering up-to-date and enticing menu options.
4. As a manager I want to be able to view and edit our employees so that our staff information is up to date
Elaboration: Keeping track of employee details is crucial for maintaining a good team and it also allows for the manager to append or remove people from the team. This capability may support effective scheduling and payroll management which may be implemented in the future.
5. As a manager, I want to be able to add and manage supplier orders so that our inventory is up to date
Elaboration: This function is critical for ensuring that we have the necessary ingredients to meet our menu's demands without overstocking or experiencing shortages. Effective supplier management helps us maintain a smooth operation which makes the business more profitable and sustainable.
6. As a cashier, I want to be able to take orders and customize it so that an order is properly placed
Elaboration: This capability is vital for providing a personalized dining experience for each customer, accommodating special dietary needs, and ensuring customer satisfaction. Being able to adjust orders quickly and accurately prevents mistakes and enhances the efficiency of our service, making sure that every customer leaves happy.



7. As a customer I want to be able to view the menu board so that I can see the current menu items that are available

Elaboration: This visibility helps me make informed decisions about what to eat, ensuring that I can find something that appeals to my taste preferences and dietary restrictions. A clear, up-to-date menu board enhances my dining experience by streamlining the ordering process. Furthermore, it allows for me, as a customer, to visually see what is being offered alongside the quality of the products served.

8. As a customer, I want to be able to clearly see pricing information and descriptions of menu items

Elaboration: This clarity helps me understand what I'm ordering and how much it will cost, which is essential for a satisfactory experience. Detailed descriptions and transparent pricing ensure that I can make choices that fit my budget and dietary needs, contributing to a more sustainable and enjoyable meal as I am probably a college student.

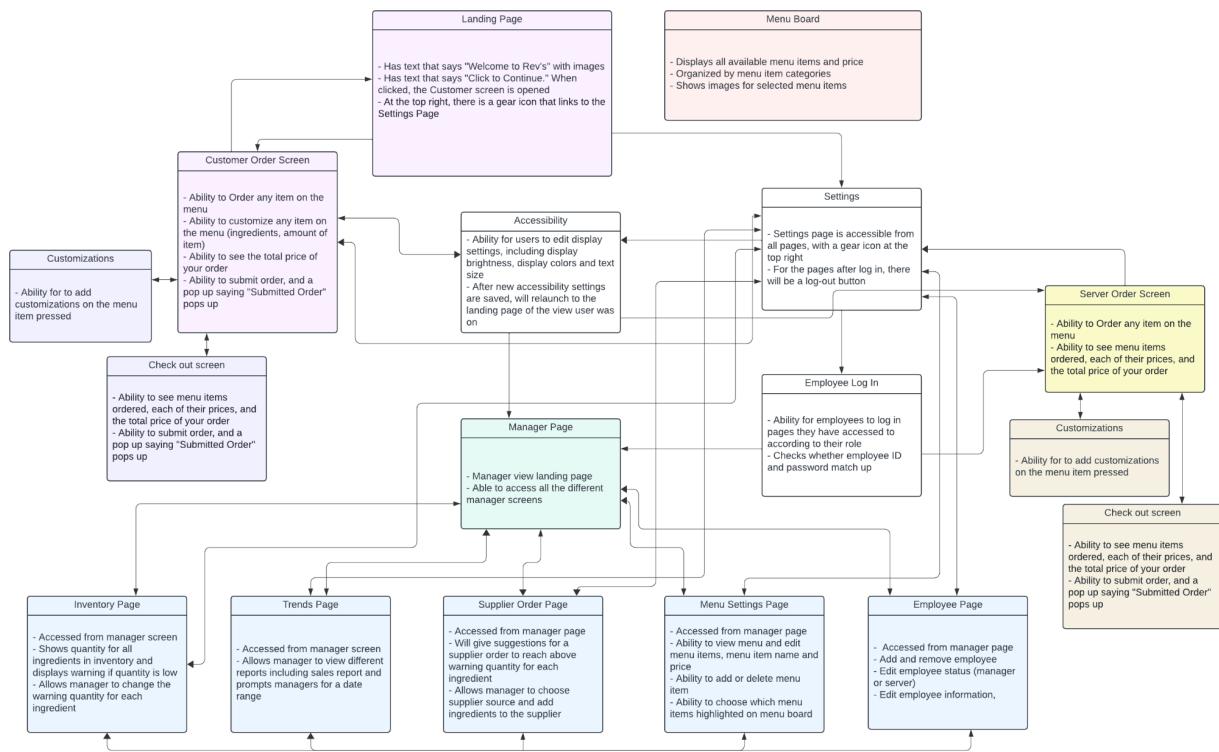
9. As a customer, I want to be able to place my own order and customize it so that my order is properly placed

Elaboration: This allows me to tailor my meal exactly to my preferences, ensuring that any dietary restrictions or allergies are accommodated. Furthermore, it allows me to order as I please without judgment. The ability to personalize my order not only enhances my satisfaction but also minimizes the risk of errors which are made by the clerks, thus making my dining experience more enjoyable.



Solution Design

System Diagram



The system diagram for this project represents all of the screens and pop-up menus that can be accessed from the POS system. The arrows on the diagram indicate that one screen can be accessed from another screen. An in-depth description of each screen can be seen on the diagram itself. This diagram represents the logical flow that a user would take as they navigate through the application.

Interface Diagram

Our interface will specifically support our three defined users - Maria, Vishnu, and Carol but also ensure that a manager, customer, or server can utilize our product. For Maria specifically, we have a translation feature in our accessibility settings that allows her to translate our POS system into a different language. We also specifically made our product easy to use. For Vishnu, we allow for both text enlargement and high contrast in our accessibility settings. For Carol, we have allowed for an enlarging text feature in our accessibility settings and have included images in our menu items to ensure that they are easy to understand. When a user first accesses our product, they are brought to the landing page. If they click the screen, they are taken to the customer view. The customer view allows the customer to order their food themselves with images of the menu items being present. Each menu item is separated by category. They can see their total on the side of their screen. They



have the option to customize their food as well. Once they place their order, an order complete screen is loaded and they are taken back to the landing page. If the user is not a customer, they can click on the gear icon on the landing page and log into the system using their Employee ID and password. The system will notify them if they input something incorrectly. For the manager, they have access to the edit menu screen, the edit inventory screen, the supplier order screen, the employee screen, and the trends screen. They are able to edit all of these pages and view their various needs. For the server, their screen allows them to place orders and customize them, according to the customers needs. At any point in any of the three views, the user can log out of their view and be taken back to the landing page. Additionally, accessibility settings are available at any screen in our POS system. The final screen is the menu board screen. It contains all of the current menu items and their prices. It also contains promotional items that the manager can add.

Accessibility Settings

Adjust Text Size: **Display: This is will the body text size**

100% 150% 200%

Display Color: Normal High Contrast

Language: English Spanish

Bacon Cheeseburger \$8.29

Cheese: American, Swiss, Pepperjack

Patty: 1 Bacon

Aggie shake \$4.49

Flavor: Vanilla, Chocolate, Strawberry, Oreo Cookie

Total: \$12.78

Back Relaunch Edit Order Next

Accessibility Page

Entrees
Sides
Desserts
Drinks
Deals

Aggie shake
Cookie Ice Cream Sundae
Root Beer Float
Double Scoop Ice Cream

Order
1 Bacon Cheeseburger
\$8.29
Total: \$8.29

Back Next

Customer Order Screen

Checkout Page

Aggie shake

Flavor: Vanilla, Chocolate, **Strawberry**, Oreo Cookie

Add to Order

Customizations Screen

Employee ID:

Password:

Submit

Employee ID:

Password:

Error: Invalid ID or password

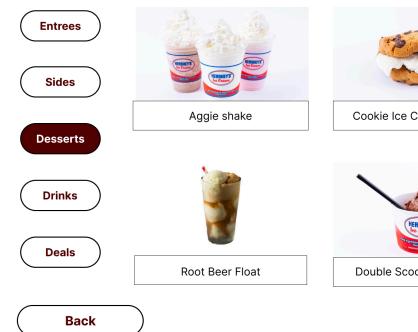
Submit

Back

Back

Log-In Page

Log-In Warning Page



Back

Server Mode 

Order

1	Bacon Cheeseburger	\$8.29
		Total: \$8.29

Next

Accessibility setting page: [Click Here](#)

Employee Log-In [Click Here](#)



Back

Server Order Screen

Settings Page

Manager Screens (In Order): Inventory, trends, warning settings, employee list, manager landing page, supplier order

Inventory

Burger Buns	200
Burger Patties	200
Chicken Patties	200
Sandwich Bread	200
Hot Dogs	200
Fries	200

Trends

Burger Buns	200
Burger Patties	200
Chicken Patties	200
Cheese - Pepper Jack	10
Onions	200
Bowls	200
Cups - Fountain	200

Supplier Order

Edit Menu

Employee List

Warning Settings

Edit Ingredients



Inventory

Burger Buns	50
Burger Patties	50
Chicken Patties	50
Sandwich Bread	50
Hot Dogs	50
Fries	50

Trends

Burger Buns	50
Burger Patties	50
Chicken Patties	50
Cheese - Pepper Jack	50
Onions	50
Bowls	50
Cups - Fountain	50

Supplier Order

Edit Menu

Employee List

Warning Settings

Done

Inventory

Trends

Supplier Order

Edit Menu

Employee List

Employee List

Manager 1	ID: 12345	Manager	Delete	Change Role
Manager 2	ID: 12346	Manager	Delete	Change Role
Employee 1	ID: 12349	Server	Delete	Change Role
Employee 2	ID: 12340	Server	Delete	Change Role

Done

Click on page:

Manager View

View Inventory

Place Supplier Order

View Trends

Menu Settings

Employee List

Supplier Order

Supplier:

Add:

Cheese - Pepper Jack	40
----------------------	----

Ingredients Drop Down

Done



Welcome to Rev's!

Click to begin

Welcome Screen

Rev's Menu (Not complete)

Desserts

Cookie Ice Cream Sundae \$3.99

Chocolate Chip Cookies

Sugar Cookies

with

Vanilla

Chocolate

Strawberry

Oreo Cookie

Root Beer Float \$6.99

Double Scoop Ice Cream \$3.49

Vanilla

Chocolate

Strawberry

Oreo Cookie

Aggie Shake \$4.09

Vanilla

Chocolate

Strawberry

Oreo Cookie



Sample Menu Board



Project Management

Team Roles and Qualifications

Alyan will serve as the Project Manager and Scrum Master for this project. In this capacity, he will be responsible for maintaining the team's backlog, updating the team's burndown chart, and meeting with the course instructor, TAs, and other team Scrum Masters. He will also be responsible for ensuring the team follows Agile methodology in this capacity. Aside from this, Alyan will also have technical responsibilities including back-end SQL related programming and will serve as a flexible member of the team to contribute wherever there are deficits in the development team. This assignment fits Alyan's unique qualifications because of his previous internship experience with Project Management.

Keeley will serve as a member of the development team for this project. Specifically, Keeley will prioritize her efforts on the front-end development portion of the project. Keeley will be working with JavaScript's React library to develop the user interface of the project. Keeley will be working closely with Joanne in order to accomplish this. She and Joanne will coordinate to deliver a consistent UI theme that is very accessible. This assignment fits Keeley's unique qualifications because of her past work on the front end of Project 2.

Joanne will serve as a member of the development team for this project. Specifically, Joanne will prioritize her efforts on the front-end development portion of the project. Like Keeley, Joanne will have to become proficient in the React library for JavaScript in order to facilitate her work on the user interface for this project. She will collaborate heavily with Keeley in creating the user interface for the project. This assignment fits Joanne's unique qualifications because of her past work on the front end of Project 2 and her experience in designing the layout of applications.

Vittoria will serve as a member of the development team for this project. Specifically, Vittoria will prioritize her efforts on the back-end development portion of the project. Vittoria will be focusing on things like web interfacing with the database and the use of external APIs. She will also play a key role in usability testing, especially in relation to user accessibility. This assignment fits Vittoria's unique qualifications because she has already developed a database communication system in Project 2, and has proven that she knows how to use external APIs.

Brandon will serve as a member of the development team for this project. Specifically, Brandon will prioritize his efforts on the back-end development portion of the project. Brandon will be focusing on things like JavaScript class development and general project architecture. He will also have the important task of ensuring that the team properly follows version control protocols and best Git practices. Brandon will also contribute to the technical reporting for this project. This assignment



fits Brandon's unique qualifications because he developed many Java classes for Project 2, and already possesses a fair amount of experience with Git.

Development Methodology

The software development methodology that the team will use during the implementation of this project will be mainly based on the Agile methodology. Specifically, the team will closely follow the Scrum framework in order to achieve these goals. This Scrum-based framework that we follow will prioritize always having a minimum viable product that has been improved by week's end. This will allow us to meet all requisite deadlines, as well as let us chip away at our backlog without overwhelming ourselves at the end. To accomplish this, we will divide our work time into three sprints that encompass different stages of product completeness. Though all of these sprints will have a viable product at their close, they will develop on each other so that the product progressively improves.

In order to effectively work inside this Scrum framework, the team will organize several Scrum ceremonies that will help facilitate the work. Progress will be tracked and monitored throughout the project cycle during our Scrum meetings. These will take place every week (see Schedule). Team communication will be done through the established iMessage group that includes all team members. Team members will endeavor to always be in communication with all other team members. All major meetings will be scheduled in advance (see Schedule), but the team remains open to the possibility of organizing ad hoc meetings, as needed and with team consent.

Schedule

M	T	W	Th	F
11:30 AM Lab - Standup - Weekly Plan	11:10 AM Class - Standup - Dev Time 7:00 PM Meeting - Dev Time - Scrum Meeting	11:30 AM Lab - Standup - Dev Time	11:10 AM Class - Standup - Dev Time	Free/Flex Day

Planned Scope

The scope of this project is to deliver a fully functional and developed web-based application that can serve all POS and menu needs for the Rev's restaurant. While the product will be usable in every domain, the application can be conceptualized as a few key areas that each have their own fallback and stretch goals.



In terms of user accessibility, the application has a firm baseline that it must meet, even as a fallback goal. The application must be able to accommodate common accessibility issues, namely vision and motor skill impairments. It will do this through text size and keyboard navigation features. Additionally, the application must be able to accommodate Spanish speakers as this is a very common language. The stretch goal in this category would be to go above and beyond in the user accessibility that we can provide. This could take the form of providing language support for more obscure languages, or for smaller scale disabilities.

In terms of product features, the application has a few core attributes that must be delivered as part of the fallback goal. These features are mainly encompassed by the functionality that was present in Project 2. The manager features as well as the server features must be ported to this new web application as the bare minimum. Additionally, we must deliver a similar customer experience and menu board as part of this fallback goal. The stretch goal for this category mainly encompasses adding new features that enhance user experience. These new features include automated supplier order recommendations, weather-based customer and supplier order recommendations, and an integrated image upload for managers, and a customer rating system. These new features, further detailed in the product backlog, will provide an excellent stretch direction for the team to strive towards.

Task Breakdown and Scheduling

Our product backlog in Appendix 1 contains all of the subtasks and their dependencies. Additionally, all of the tasks are described in detail there.

Critical paths include turning our current java code into java script. This is an essential part of our projects as it needs to occur for our front end and back end to be integrated together and allow for any real changes to the database to occur. Additionally, ensuring that the customizations and process for ordering food is a critical path, as it is essential for features of both the customer and server view.

A feasible schedule is seen in both Appendix 1 and Appendix 2. Appendix 1 shows the breakdown of all of the tasks into sprints, as defined earlier that will keep our team on track. Appendix 2 shows the initial product burn down chart which demonstrates the progression of tasks throughout the various weeks.



TEXAS A&M UNIVERSITY

Department of Computer
Science & Engineering

CSCE 315: Programming Studio

Project 3 – Frontend Focus

References

Atlassian, “Product Backlog Explained [+ Examples],” Atlassian.
<https://atlassian.com/agile/scrum/backlogs#:~:text=What%20is%20a%20product%20backlog> (accessed Mar. 23, 2024).

“How To Easily Create A Burndown Chart For Your Team In Excel | Dev Interrupted Powered by LinearB,” *linearb.io*. <https://linearb.io/blog/burndown-chart-excel> (accessed Mar. 23, 2024).



Appendix 1: Product Backlog

ID	Sprint	Category	Task	Time Estimate (hours)	Time Spent (hours)	Dependency	Status	Priority
1-1-a	1	General	Ensure that the website is publicly accessible	1	0.5	None	Complete	High
1-1-c	1	General	Create buttons for Inventory, Trends, Employee, Menu, and Supplier Orders that all link to each other in React in the manager Screen	.25	1	None	Complete	High
1-2-a	1	Landing Screen	Create the Landing page so that when clicked, the customer screen is loaded	.25	1	None	Complete	High
1-2-b	1	Landing Screen	Add the gear icon in the top right corner of the landing page	.25	0.5	None	Complete	Medium
1-2-c	1	Landing Screen	Ensure that the login screen appears when an employee wants to log in	.25	0.5	1-1-b	Complete	Medium
1-2-d	1	Landing Screen	Ensure that the login screen outputs errors when the username or	1	1	1-2-c and 1-3-b	Complete	Low



TEXAS A&M UNIVERSITY

Department of Computer
Science & Engineering

CSCE 315: Programming Studio

Project 3 – Frontend Focus

			password is entered incorrectly					
1-3-a	1	Employee Screen	Ensure that the “Employee” button is highlighted to indicate that you are on the employee screen	.25	.25	1-1-c	Complete	Low
1-3-b	1	Employee Screen	Translate existing Java backend files to Javascript for employee	2	1	None	Complete	High
1-4-a	1	Inventory Screen	Translate existing Java backend files to Javascript for inventory	2	2	None	Complete	High
1-4-b	1	Inventory Screen	Ensure that the “Inventory” button is highlighted to indicate that you are on the inventory screen	.25	.25	1-1-c	Complete	Low
1-4-c	1	Inventory Screen	Create a save changes button that saves the changes made on the screen in React	.25	.25	None	Complete	High
1-4-d	1	Inventory Screen	Create an entity for each ingredient that has its current quantity, its warning quantity, location, and unit used in React	.25	.5	1-4-a	Complete	High
1-4-e	1	Inventory Screen	Make sure that each entity for each ingredient is	.25	.25	1-4-c	Complete	High



			able to be edited in React					
1-4-f	1	Inventory Screen	Align all of the entities in a grid in React	.25	.25	1-4-c	Complete	Low
1-4-g	1	Inventory Screen	Ensure that the grid is scrollable	.25	.25	1-4-e	Complete	Medium
1-4-h	1	Inventory Screen	Ensure that you can add a new ingredient with its name, quantity, quantity warning, unit and location.	1	2	1-4-a	Complete	High
1-4-i	1	Inventory Screen	Ensure that you can delete an ingredient	1	1	1-4-a	Complete	High
1-5-a	1	Trends Screen	Translate existing Java backend files to Javascript for trends	2.5	4	None	Not Started	High
1-5-b	1	Trends Screen	Add trend buttons for each trend available that allow user to click on which trend they want to see	.25	.50	None	Not Started	High
1-5-c	1	Trends Screen	Ensure that the trend button is highlighted for which specific trend you are on	.25	.15	1-5-a	Not Started	Low
1-5-d	1	Trends Screen	Ensure that the “Trends” button is highlighted to indicate you are on the trends screen	.25	.15	1-1-c	Not Started	Low



1-5-f	1	Trends Screen	Create button that allows user to enter in their selected dates/ingredient/weather	.25	.25	None	Complete	Medium
1-6-b	1	Menu Screen (Manager)	Create buttons that contain the menu categories in React	.25	.25	None	Complete	High
1-6-c	1	Menu Screen (Manager)	Create buttons that appear for each menu item listing their name and allowing the manager to click on them and edit them	1	2	1-6-b	Complete	High
1-7-a	1	Supplier Order Screen	Ensure that “Supplier Order” screen is selected, indicating that you are on the supplier order screen	.25	.25	1-1-c	Complete	Low
1-7-d	1	Supplier Order Screen	Create button that allows manager to add new supplier order and choose ingredients, quantity received, quantity ordered, supplier, and date for the order	1	2	None	Complete	High
1-12-b	1	Accessibility Settings	Add options to increase font size or make text bold	.25	1	1-12-a	Not Started	High
2-1-a	2	General	Create color scheme and ensure that it is the same throughout the	.75		None	Not Started	Low



			whole project						

ID	Sprint	Category	Descp	Estimated	Time Spent	Dependencies	Status	Priority
2-1-a	2	General	Create color scheme and ensure that it is the same throughout the whole project	.75		None	Not Started	Low
2-1-b	1	General	Create a button that links to the settings page and allows the user to change the accessibility settings, and log out in React	1	0.5	None	Not Started	High
2-2-a	2	Landing Screen	Add images to landing page	2		1-2-a	Not Started	Medium
2-2-b	2	Landing Screen	Test functionality of new features	2		2-2-a	Not Started	Medium
2-3-a	2	Inventory Screen	Create a warning label and display it for ingredients that have quantities lower than their warning amount in React	.5		None	Not Started	Medium
2-3-b	2	Inventory Screen	Ensure that the warning label is in red and viewable	.25		2-3-a	Not Started	Low



						d		
2-3-c	2	Inventory Screen	Ensure that you can change an ingredient's quantity, quantity warning, unit and location.	.75	1	1-4-a	Complete	High
2-3-d	2	Inventory Screen	Test functionality of new features	2		1-4-(a-i) 2-3(a-c)	Not Started	Medium
2-3-e	2	Inventory Screen	Add display functionality for vegan, vegetarian, and gluten free for each ingredient	.5		2-13-b	Not Started	Medium
2-3-f		Inventory Screen	Add edit functionality for vegan, vegetarian, and gluten free for each ingredient	.5		2-13-b	Not Started	Medium
2-4-a	2	Trends Screen	Ensure that the sales report trend is properly calculated in Javascript. Instead of the current java implementation, ensure that the sales reports calculates the 10% by getting the current quantity of ingredient, go into sales history and get amount used, calculate amount used / (current amount + amount used) and see if it's under 10%	3		None	Not Started	High
2-4-b	2	Trends Screen	Ensure that the proper error messages pop up when an incorrect date is entered	.5		1-5(a-g)	Not Started	Medium
2-4-c	2	Trends Screen	Test functionality of new features	4		2-4(a-b)	Not Started	Medium



							rte d	
2-4-d	1	Trends Screen	Ensure that the proper date text box and ingredient/weather dropdowns are present for a specific trend	.25	1	None	In Progress	Medium
2-4-e	1	Trends Screen	Create the graphs or data table for each trend in React and ensure that it pulls the proper information from the backend	1		1-5-a	1-5-a	High
2-5-a	2	Menu Items (Manager Screen)	Add the functionality for managers to be able to upload images of items and associate them with the menu item	3		None	Not Started	Medium
2-5-b	2	Menu Items (Manager Screen)	Ensure that when you delete a menu item and add it back with same name it does not contain the previous ingredients of the first menu item	1		1-6-a	Not Started	Medium
2-5-c	2	Menu Items (Manager Screen)	Ensure that only nonnegative values can be entered in for the price	.25	.25	1-6-f	In Progress	Medium
2-5-d	2	Menu Items (Manager Screen)	Test functionality of new features	3		1-5-(a-d)	Not Started	Medium
2-5-e	1	Menu Screen (Manager)	Translate existing Java backend files to Javascript for menu items	2	2	None	In Progress	High
2-5-f	1	Menu Screen	Ensure that the “Menu” button is selected,	.25		1-1-c	Not Started	Low



		(Manager)	indicating that you are on the menu screen				rte d	
2-5-e	1	Menu Screen (Manager)	Ensure that the specific menu category button is selected, indicating that you are on that specific menu category	.25	.25	1-6-c	Co mplete	Low
2-5-f	1	Menu Screen (Manager)	Allow manager to change the name, price, and category for each menu item through clicking on the specific menu item	1	2	2-5-e	In Pro gress	High
2-5-g	1	Menu Screen (Manager)	Allow managers to add ingredients to a menu item	.5	1	2-5-e	In Pro gress	High
2-5-h	1	Menu Screen (Manager)	Allows managers to delete ingredients to a menu item	.5	1	2-5-e	In Pro gress	High
2-5-i	1	Menu Screen (Manager)	Create button that allows a manager to delete a menu item once inside the edit menu item	.5	.5	2-5-3	In Pro gress	High
2-5-j		Menu Screen (Manager)	Allow managers to add/change images to a menu item	.5		2-13-a	Not Sta rted	Mediu m
2-5-k		Menu Screen (Manager)	Include a clear, concise description of each item with its ingredients	.5		2-13-e	Not Sta rted	Mediu m
2-6-a	2	Employees Screen	Display list of current employees with their name, employee ID, and role	1	1	1-3-b	Co mplete	High



2-6-b	2	Employees Screen	Allow the manager to add new employees	1		1-3-b	Not Started	High
2-6-c	2	Employees Screen	Allow the manager to delete employees	1		1-3-b	Not Started	High
2-6-d	2	Employees Screen	Allow the manager to change the role of an employee	.25		1-3-b	Not Started	High
2-6-e	2	Employees Screen	Test functionality of new features	2		2-6-(a-d)	Not Started	High
2-7-a	2	Supplier Orders Screen	Ensure that quantity received, quantity ordered are nonnegative integers	.25		1-7-d	Not Started	Medium
2-7-b	2	Supplier Orders Screen	Ensure that date is properly entered and display a warning if it is not	.25		1-7-d	Not Started	Medium
2-7-c	2	Supplier Orders Screen	Ensure that changes are reflected in database and in inventory	1.5	1	1-7-(a-d)	In Progress	High
2-7-d	2	Supplier Orders Screen	Test functionality of new features	2		2-7-(a-c)	Not Started	High
2-7-e	1	Supplier Order Screen	Translate existing Java backend files to Javascript for supplier orders	3	2	None	In Progress	High
2-7-	1	Supplier	Create grid that displays	.25	1	None	In	High



f		Order Screen	the supplier order number, date, supplier, ingredient, quantity received of ingredient, and quantity ordered of ingredient				Pro gress	
2-8-a	2	Cashier Screen	Ensure inventory warnings are up-to-date when customizing an item and visible beyond color differentiation	.5	1-4-d 2-3-(a-c)	Not Sta rted	High	
2-8-b	2	Cashier Screen	Create a button within a menu item that redirects to a pop-up of ingredients available to add, modify, or remove	1	1-6-c	Not Sta rted	High	
2-8-c	2	Cashier Screen	Create a button that enables cashiers to efficiently edit the quantity of each ingredient in the menu item	.25	1-6-(g-h)	Not Sta rted	Mediu m	
2-8-d	2	Cashier Screen	Ensure ingredients available for customization are well-organized, scrollable, and/or searchable	.25	None	Not Sta rted	Mediu m	
2-8-e	1	Cashier Screen	Translate existing Java backend files to Javascript	3	2	None	Not star ted	High
2-8-f	1	Cashier Screen	Ensure customizations can only be made using ingredients present in the inventory	.25	1-4-h	Not Sta rted	Mediu m	
2-8-g	1	Cashier Screen	Create a button within the customization pop-up that adds the updated menu item to	.25	2-8-e	Not Sta rted	High	



			the order					
2-10-a	2	Customer Screen	Translate existing Java backend files to Javascript	1	0.5	None	In progress	High
2-10-c	2	Customer Screen	Add the accessibility gear icon to the top right corner of the customer order screen	.25		1-1-b	Not Started	High
2-11-a	2	Customer (Self-ordering)	Incorporate design elements that reflect Rev's theme and personality	.25		None	Not Started	Low
2-11-c	2	Customer (Self-ordering)	Create buttons within each tile to customize the item, add it to the order, or make it a combo	1.5		2-8-b 1-8-c	Not Started	High
2-11-d	1	Customer Screen	Display the description of menu item and ingredient list	.5		1-6-c	Not Started	High
2-11-e	1	Customer Screen	Display the dietary restriction labels for the menu items	.5		None	Not Started	Medium
2-11-f	1	Customer (Self-ordering)	Translate existing Java backend files to Javascript	.5	0.5	None	In progress	High
2-11-g	1	Customer (Self-ordering)	Design an interface that is visually appealing and intuitive to navigate	1	1	None	In progress	High
2-12-a	2	Accessibility Settings	Switch between color schemes depending on user preferences,	.5		1-12-a	Not Started	High



			disabilities, or color blindness type			d	
2-12 -b	2	Accessibility Settings	Add dropdown option to translate web page text into any language provide by the Google API	.25	1-12-a	Not Started	High
2-13 -a	2	Database	Be able to add images to a menu item in the database	1	None	Not Started	High
2-13 -b	2	Database	Add vegetarian, vegan, and gluten free labels to ingredients	.5	None	Not Started	Medium
2-13 -c	2	Database	Add in menu item table to check through all ingredients for whether it is vegetarian, vegan or gluten free	1	2-13-b	Not Started	Medium
2-13 -c	2	Database	Add column to menu item to see if it is currently being promoted or not	.5	None	Not started	Medium
2-13 -d	2	Database	Modify ingredients column to change non-edible ingredients to a specific location so they don't show up on customizations	.5	None	Not started	Medium
2-13 -e		Database	Add description column for menu items	.5	None	Not started	Medium
2-14 -a		Menu Board Settings Screen	Create promotion categories	.5	2-13-c	Not Started	High



2-14 -b		Menu Board Settings Screen	Create promotion dropdown for each menu item	.75		2-14-a	Not Sta rte d	Mediu m
2-14 -c		Menu Board Settings Screen	Create button that saves changes	.5		2-14-b	Not Sta rte d	High
2-14 -d		Menu Board Settings Screen	Make changes editable and reflect in database/menu screen	.5		2-14-(a-c)	Not Sta rte d	High
2-15 -a	1	Menu Board	Design a visually appealing and organized layout for the menu board, prioritizing clarity and readability	1		1-6-c	Not Sta rte d	High
3-1- a	3	Inventory Screen	Create a button that directs you to the supplier orders page when an ingredient has a quantity lower than its warning amount and automatically adds the ingredient to the supplier order in React	1.5		1-4-d	Not Sta rte d	High
3-1- b	3	Inventory Screen	Ensure that only nonnegative integers can be entered in for the quantities	.25		1-4-d	Not Sta rte d	Mediu m
3-1- c	3	Inventory Screen	Create a refresh button that allows the page to be refreshed	.25		None	Not Sta rte d	Low
3-1- d	3	Inventory Screen	Test full functionality of new features	2.5		3-1-(a-c)	Not Sta rte d	Mediu m



TEXAS A&M UNIVERSITY

Department of Computer
Science & Engineering

CSCE 315: Programming Studio

Project 3 – Frontend Focus

3-2-a	3	Trends Screen	Ensure that refresh buttons works properly to ensure that when new data is added, the graphs reflect that	.25		None	Not Started	Low
3-2-b	3	Trends Screen	Add the backend implementation for a new trend relating to weather. When selecting a certain type of weather and sales item, see its order history.	4		None	Not Started	Medium
3-2-c	3	Trends Screen	Test full functionality of new features	4		3-2-(a-b)	Not Started	Medium
3-2-d		Trends Screen	Add backend database for Z and X report	2				
3-2-e		Trends Screen	Add table for Z and X report	1				
3-3-a	3	Employee Screen	Create a refresh button that allows the page to be refreshed	.25		None	Not Started	Low
3-3-b	3	Employee Screen	Test full functionality of new features	1		3-3-a	Not Started	Medium
3-4-a	3	Menu Items (Manager Screen)	Create a refresh button that allows the page to be refreshed	.25		None	Not Started	Low
3-4-b	3	Menu Items (Manager Screen)	Test full functionality of new features	.25		3-4-a	Not Started	Medium
3-5-	3	Supplier	Add label that auto	1.5		1-4-d	Not	Medium



a		Orders Screen	recommends ingredients to add to supplier order based off of inventory warning values for each ingredient				Started	m
3-5-b	3	Supplier Orders Screen	Add label that auto recommends ingredients to add to supplier order based off on the season and ingredients that are commonly used during that season	3		None	Not Started	Medium
3-5-c	3	Supplier Orders Screen	Create a refresh button that allows the page to be refreshed	.25		None	Not Started	Low
3-5-d	3	Supplier Orders Screen	Test integration of new features	3		3-5-(a-c)	Not Started	Medium
3-8-a	3	Cashier Screen	Ensure customizations are properly reflected in the inventory database and accounted for in trend calculations	.5		3-1-c 3-2-a	Not Started	Medium
3-8-b	3	Cashier Screen	Display a dynamic order summary panel on the right side of the window that displays the total price and items as they are added to the order	.75		1-8-a	Not Started	High
3-8-c	3	Cashier Screen	Ensure customizations are clearly listed under their respective menu item on the order summary	.25		3-8-b	Not Started	Medium
3-8-d	3	Cashier Screen	Add the accessibility gear icon to the top right corner of the Cashier	.25		1-1-b	Not Started	High



		Screen				d	
3-8-e	2	Cashier Screen	Create button to make it a combo for entrees	1.5	2-8-b 1-8-c	Not Started	Low
3-9-a	3	Menu Board	Integrate weather data to provide menu suggestions based on the current weather conditions and observed trends	.75	1-5-f	Not Started	Medium
3-10-b	3	Customer Screen	Include the name and pricing information of each item in bold text or large font size	.25	None	Not Started	Medium
3-11-a	3	Customer (Self-ordering)	Ensure menu item tiles are scrollable and well-spaced depending on the window size	.25	None	Not Started	Medium
3-11-b	3	Customer (Self-ordering)	Ensure the order summary panel displays an order's customizations and menu item quantities	.25	3-8-c	Not Started	Medium
3-11-c	3	Customer (Self-ordering)	Ensure any errors that may arise at a self-ordering kiosk instruct the customer to seek an employee for assistance	.25	None	Not Started	Low
3-11-d	3	Customer (Self-ordering)	Design a dynamic order summary panel on the right side of the window that displays the total price and items as they are added to the order	1	3-8-b	Not Started	High
3-11-	2	Customer	Add make it a combo	1.5	2-8-b	Not	Low



e	(Self-ordering)	button			1-8-c	Started	
3-12-a	3	Accessibility Settings	Add refresh mechanism such that accessibility options persist across each page	.75	1-12-a	Not Started	High
3-13-a		General	Add in google authentication api	2	None	Not Started	High

OLD	OLD	OLD	OLD	OLD	OLD	OLD	OLD	OLD
ID	Sprint	Category	Task	Time Estimate (hours)	Time Actual	Dependency	Status	Priority
1-1-a	1	General	Ensure that the website is publicly accessible	1		None	Not Started	High
1-1-b	1	General	Create a button that links to the settings page and allows the user to change the accessibility settings, and log out in React	1		None	Not Started	High
1-1-c	1	General	Create buttons for Inventory, Trends, Employee, Menu, and Supplier Orders that all link to each other in	.25		None	Not Started	High



			React in the manager Screen					
1-2-a	1	Landing Screen	Create the Landing page so that when clicked, the customer screen is loaded	.25		None	Not Started	High
1-2-b	1	Landing Screen	Add the gear icon in the top right corner of the landing page	.25		None	Not Started	Medium
1-2-c	1	Landing Screen	Ensure that the login screen appears when an employee wants to log in	.25		1-1-b	Not Started	Medium
1-2-d	1	Landing Screen	Ensure that the login screen outputs errors when the username or password is entered incorrectly	1		1-2-c and 1-3-b	Not Started	Low
1-3-a	1	Employee Screen	Ensure that the “Employee” button is highlighted to indicate that you are on the employee screen	.25		1-1-c	Not Started	Low
1-3-b	1	Employee Screen	Translate existing Java backend files to Javascript for employee	2		None	Not Started	High
1-4-a	1	Inventory Screen	Translate existing Java backend files to Javascript for inventory	2		None	Not Started	High
1-4-b	1	Inventory Screen	Ensure that the “Inventory” button is highlighted to indicate that you are on the inventory screen	.25		1-1-c	Not Started	Low



1-4-c	1	Inventory Screen	Create a save changes button that saves the changes made on the screen in React	.25		None	Not Started	High
1-4-d	1	Inventory Screen	Create an entity for each ingredient that has its current quantity, its warning quantity, location, and unit used in React	.25		1-4-a	Not Started	High
1-4-e	1	Inventory Screen	Make sure that each entity for each ingredient is able to be edited in React	.25		1-4-c	Not Started	High
1-4-f	1	Inventory Screen	Align all of the entities in a grid in React	.25		1-4-c	Not Started	Low
1-4-g	1	Inventory Screen	Ensure that the grid is scrollable	.25		1-4-e	Not Started	Medium
1-4-h	1	Inventory Screen	Ensure that you can add a new ingredient with its name, quantity, quantity warning, unit and location.	1		1-4-a	Not Started	High
1-4-i	1	Inventory Screen	Ensure that you can delete an ingredient	1		1-4-a	Not Started	High
1-5-a	1	Trends Screen	Translate existing Java backend files to Javascript for trends	2.5		None	Not Started	High
1-5-b	1	Trends Screen	Add trend buttons for each trend available that allow user to click on	.25		None	Not Started	High



		which trend they want to see				d	
1-5-c	1	Trends Screen	Ensure that the trend button is highlighted for which specific trend you are on	.25	1-5-a	Not Started	Low
1-5-d	1	Trends Screen	Ensure that the “Trends” button is highlighted to indicate you are on the trends screen	.25	1-1-c	Not Started	Low
1-5-e	1	Trends Screen	Ensure that the proper date text box and ingredient/weather dropdowns are present for a specific trend	.25	None	Not Started	Medium
1-5-f	1	Trends Screen	Create button that allows user to enter in their selected dates/ingredient/weather	.25	None	Not Started	Medium
1-5-g	1	Trends Screen	Create the graphs or data table for each trend in React and ensure that it pulls the proper information from the backend	1	1-5-a	Not Started	High
1-6-a	1	Menu Screen (Manager)	Translate existing Java backend files to Javascript for menu items	2	None	Not Started	High
1-6-b	1	Menu Screen (Manager)	Create buttons that contain the menu categories in React	.25	None	Not Started	High
1-6-c	1	Menu Screen (Manager)	Create buttons that appear for each menu item listing their name and allowing the	1	1-6-b	Not Started	High



			manager to click on them and edit them					
1-6-d	1	Menu Screen (Manager)	Ensure that the “Menu” button is selected, indicating that you are on the menu screen	.25		1-1-c	Not Started	Low
1-6-e	1	Menu Screen (Manager)	Ensure that the specific menu category button is selected, indicating that you are on that specific menu category	.25		1-6-c	Not Started	Low
1-6-f	1	Menu Screen (Manager)	Allow manager to change the name, price, and category for each menu item through clicking on the specific menu item	1		1-6-a	Not Started	High
1-6-g	1	Menu Screen (Manager)	Allow managers to add ingredients to a menu item	.5		1-6-a	Not Started	High
1-6-h	1	Menu Screen (Manager)	Allows managers to delete ingredients to a menu item	.5		1-6-a	Not Started	High
1-6-i	1	Menu Screen (Manager)	Create button that allows a manager to delete a menu item once inside the edit menu item	.5		1-6-a	Not Started	High
1-6-j	1	Menu Screen (Manager)	Create button that allows a manager to add a new menu item	.5		1-6-a	Not Started	High
1-7-a	1	Supplier Order Screen	Ensure that “Supplier Order” screen is selected, indicating that you are on the supplier	.25		1-1-c	Not Started	Low



		order screen					
1-7-b	1	Supplier Order Screen	Translate existing Java backend files to Javascript for supplier orders	3	None	Not Started	High
1-7-c	1	Supplier Order Screen	Create grid that displays the supplier order number, date, supplier, ingredient, quantity received of ingredient, and quantity ordered of ingredient	.25	None	Not Started	High
1-7-d	1	Supplier Order Screen	Create button that allows manager to add new supplier order and choose ingredients, quantity received, quantity ordered, supplier, and date for the order	1	None	Not Started	High
1-8-a	1	Cashier Screen	Translate existing Java backend files to Javascript	3	None	Not Started	High
1-8-b	1	Cashier Screen	Ensure customizations can only be made using ingredients present in the inventory	.25	1-4-h	Not Started	Medium
1-8-c	1	Cashier Screen	Create a button within the customization pop-up that adds the updated menu item to the order	.25	1-8-a	Not Started	High
1-9-a	1	Menu Board	Design a visually appealing and organized layout for the menu board, prioritizing clarity and readability	1	1-6-c	Not Started	High



1-10-a	1	Customer Screen	Include a clear, concise description of each item with its ingredients	.5		1-6-c	Not Started	High
1-10-b	1	Customer Screen	Add gluten free and vegetarian labels as an attribute to each ingredient in the database	.5		None	Not Started	Medium
1-11-a	1	Customer (Self-ordering)	Translate existing Java backend files to Javascript	.5		None	Not Started	High
1-11-b	1	Customer (Self-ordering)	Design an interface that is visually appealing and intuitive to navigate	1		None	Not Started	High
1-12-a	1	Accessibility Settings	Add the accessibility gear icon to the top right corner of the customer order screen	.25		1-1-b	Not Started	High
1-12-b	1	Accessibility Settings	Add options to increase font size or make text bold	.25		1-12-a	Not Started	High
2-1-a	2	General	Create color scheme and ensure that it is the same throughout the whole project	.75		None	Not Started	Low
2-2-a	2	Landing Screen	Add images to landing page	2		1-2-a	Not Started	Medium
2-2-b	2	Landing Screen	Test functionality of new features	2		2-2-a	Not Started	Medium



2-3-a	2	Inventory Screen	Create a warning label and display it for ingredients that have quantities lower than their warning amount in React	.5		None	Not Started	Medium
2-3-b	2	Inventory Screen	Ensure that the warning label is in red and viewable	.25		2-3-a	Not Started	Low
2-3-c	2	Inventory Screen	Ensure that you can change an ingredient's quantity, quantity warning, unit and location.	.75		1-4-a	Not Started	High
2-3-d	2	Inventory Screen	Test functionality of new features	2		1-4-(a-i) 2-3(a-c)	Not Started	Medium
2-4-a	2	Trends Screen	Ensure that the sales report trend is properly calculated in Javascript. Instead of the current java implementation, ensure that the sales reports calculates the 10% by getting the current quantity of ingredient, go into sales history and get amount used, calculate amount used / (current amount + amount used) and see if it's under 10%	3		None	Not Started	High
2-4-b	2	Trends Screen	Ensure that the proper error messages pop up when an incorrect date is entered	.5		1-5(a-g)	Not Started	Medium
2-4-c	2	Trends Screen	Test functionality of new features	4		2-4(a-b)	Not Started	Medium



						rte d	
2-5-a	2	Menu Items (Manager Screen)	Add the functionality for managers to be able to upload images of items and associate them with the menu item	3	None	Not Started	Medium
2-5-b	2	Menu Items (Manager Screen)	Ensure that when you delete a menu item and add it back with same name it does not contain the previous ingredients of the first menu item	1	1-6-a	Not Started	Medium
2-5-c	2	Menu Items (Manager Screen)	Ensure that only nonnegative values can be entered in for the price	.25	1-6-f	Not Started	Medium
2-5-d	2	Menu Items (Manager Screen)	Test functionality of new features	3	1-5-(a-d)	Not Started	Medium
2-6-a	2	Employees Screen	Display list of current employees with their name, employee ID, and role	1	1-3-b	Not Started	High
2-6-b	2	Employees Screen	Allow the manager to add new employees	1	1-3-b	Not Started	High
2-6-c	2	Employees Screen	Allow the manager to delete employees	1	1-3-b	Not Started	High
2-6-d	2	Employees Screen	Allow the manager to change the role of an employee	.25	1-3-b	Not Started	High



2-6-e	2	Employees Screen	Test functionality of new features	2		2-6-(a-d)	Not Started	High
2-7-a	2	Supplier Orders Screen	Ensure that quantity received, quantity ordered are nonnegative integers	.25		1-7-d	Not Started	Medium
2-7-b	2	Supplier Orders Screen	Ensure that date is properly entered and display a warning if it is not	.25		1-7-d	Not Started	Medium
2-7-c	2	Supplier Orders Screen	Ensure that changes are reflected in database and in inventory	1.5		1-7-(a-d)	Not Started	High
2-7-d	2	Supplier Orders Screen	Test functionality of new features	2		2-7-(a-c)	Not Started	High
2-8-a	2	Cashier Screen	Ensure inventory warnings are up-to-date when customizing an item and visible beyond color differentiation	.5		1-4-d 2-3-(a-c)	Not Started	High
2-8-b	2	Cashier Screen	Create a button within a menu item that redirects to a pop-up of ingredients available to add, modify, or remove	1		1-6-c	Not Started	High
2-8-c	2	Cashier Screen	Create a button that enables cashiers to efficiently edit the quantity of each ingredient in the menu item	.25		1-6-(g-h)	Not Started	Medium
2-8-d	2	Cashier Screen	Ensure ingredients available for	.25		None	Not Started	Medium



			customization are well-organized, scrollable, and/or searchable				rte d	
2-9-b	2	Menu Board	Incorporate large, clear fonts with contrasting colors to enhance legibility from a distance	.25		None	Not Started	Medium
2-9-c	2	Menu Board	Group menu items by category and divide sections using borders or spaces	.5		1-6-(c-e)	Not Started	Medium
2-10-a	2	Customer Screen	Translate existing Java backend files to Javascript	1		None	Not Started	High
2-10-b	2	Customer Screen	Implement back-end functionality to assign a dietary food label to menu items depending on their ingredients	.75		1-10-b	Not Started	Medium
2-10-c	2	Customer Screen	Add the accessibility gear icon to the top right corner of the customer order screen	.25		1-1-b	Not Started	High
2-11-a	2	Customer (Self-ordering)	Incorporate design elements that reflect Rev's theme and personality	.25		None	Not Started	Low
2-11-b	2	Customer (Self-ordering)	Add buttons used to switch between categories on the menu and display their respective items	.25		1-6-b	Not Started	Medium
2-11-c	2	Customer (Self-ordering)	Create buttons within each tile to customize	1.5		2-8-b 1-8-c	Not Started	High



		ng)	the item, add it to the order, or make it a combo				rte d	
2-12-a	2	Accessibility Settings	Switch between color schemes depending on user preferences, disabilities, or color blindness type	.5	1-12-a	Not Started	High	
2-12-b	2	Accessibility Settings	Add dropdown option to translate web page text into any language provide by the Google API	.25	1-12-a	Not Started	High	
3-1-a	3	Inventory Screen	Create a button that directs you to the supplier orders page when an ingredient has a quantity lower than its warning amount and automatically adds the ingredient to the supplier order in React	1.5	1-4-d	Not Started	High	
3-1-b	3	Inventory Screen	Ensure that only nonnegative integers can be entered in for the quantities	.25	1-4-d	Not Started	Medium	
3-1-c	3	Inventory Screen	Create a refresh button that allows the page to be refreshed	.25	None	Not Started	Low	
3-1-d	3	Inventory Screen	Test full functionality of new features	2.5	3-1-(a-c)	Not Started	Medium	
3-2-a	3	Trends Screen	Ensure that refresh buttons works properly to ensure that when new data is added, the graphs reflect that	.25	None	Not Started	Low	



3-2-b	3	Trends Screen	Add the backend implementation for a new trend relating to weather. When selecting a certain type of weather and sales item, see its order history.	4		None	Not Started	Medium
3-2-c	3	Trends Screen	Test full functionality of new features	4	3-2-(a-b)	Not Started	Not Started	Medium
3-2-d		Trends Screen	Add backend database for Z and X report	2				
3-2-e		Trends Screen	Add table for Z and X report	1				
3-3-a	3	Employee Screen	Create a refresh button that allows the page to be refreshed	.25		None	Not Started	Low
3-3-b	3	Employee Screen	Test full functionality of new features	1	3-3-a	Not Started	Not Started	Medium
3-4-a	3	Menu Items (Manager Screen)	Create a refresh button that allows the page to be refreshed	.25		None	Not Started	Low
3-4-b	3	Menu Items (Manager Screen)	Test full functionality of new features	.25	3-4-a	Not Started	Not Started	Medium
3-5-a	3	Supplier Orders Screen	Add label that auto recommends ingredients to add to supplier order based off of inventory warning values for each ingredient	1.5	1-4-d	Not Started	Not Started	Medium



TEXAS A&M UNIVERSITY

Department of Computer
Science & Engineering

CSCE 315: Programming Studio

Project 3 – Frontend Focus

3-5-b	3	Supplier Orders Screen	Add label that auto recommends ingredients to add to supplier order based off on the season and ingredients that are commonly used during that season	3		None	Not Started	Medium
3-5-c	3	Supplier Orders Screen	Create a refresh button that allows the page to be refreshed	.25		None	Not Started	Low
3-5-d	3	Supplier Orders Screen	Test integration of new features	3		3-5-(a-c)	Not Started	Medium
3-8-a	3	Cashier Screen	Ensure customizations are properly reflected in the inventory database and accounted for in trend calculations	.5		3-1-c 3-2-a	Not Started	Medium
3-8-b	3	Cashier Screen	Display a dynamic order summary panel on the right side of the window that displays the total price and items as they are added to the order	.75		1-8-a	Not Started	High
3-8-c	3	Cashier Screen	Ensure customizations are clearly listed under their respective menu item on the order summary	.25		3-8-b	Not Started	Medium
3-8-d	3	Cashier Screen	Add the accessibility gear icon to the top right corner of the Cashier Screen	.25		1-1-b	Not Started	High
3-8-e	2	Cashier Screen	Create button to make it a combo for entrees	1.5		2-8-b 1-8-c	Not Started	Low



3-9-a	3	Menu Board	Integrate weather data to provide menu suggestions based on the current weather conditions and observed trends	.75		1-5-f	Not Started	Medium
3-10-b	3	Customer Screen	Include the name and pricing information of each item in bold text or large font size	.25		None	Not Started	Medium
3-11-a	3	Customer (Self-ordering)	Ensure menu item tiles are scrollable and well-spaced depending on the window size	.25		None	Not Started	Medium
3-11-b	3	Customer (Self-ordering)	Ensure the order summary panel displays an order's customizations and menu item quantities	.25		3-8-c	Not Started	Medium
3-11-c	3	Customer (Self-ordering)	Ensure any errors that may arise at a self-ordering kiosk instruct the customer to seek an employee for assistance	.25		None	Not Started	Low
3-11-d	3	Customer (Self-ordering)	Design a dynamic order summary panel on the right side of the window that displays the total price and items as they are added to the order	1		3-8-b	Not Started	High
3-11-e	2	Customer (Self-ordering)	Add make it a combo button	1.5		2-8-b 1-8-c	Not Started	Low
3-12-a	3	Accessibility Settings	Add refresh mechanism such that accessibility options persist across	.75		1-12-a	Not Started	High



TEXAS A&M UNIVERSITY

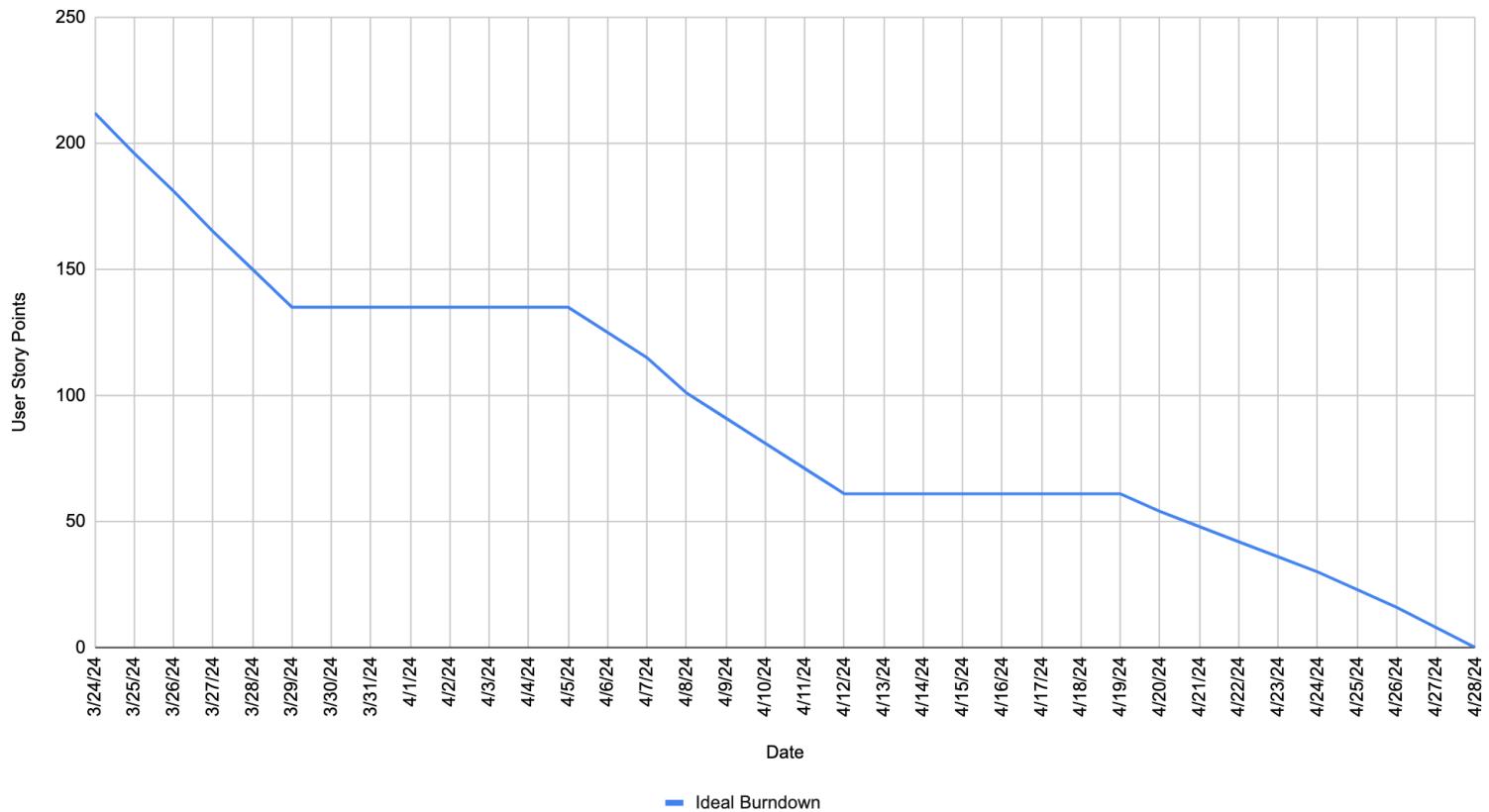
Department of Computer
Science & EngineeringCSCE 315: Programming Studio
Project 3 – Frontend Focus

		each page				d	
3-13 -a	General	Add in google authentication api	2		None	Not Sta rte d	High



Appendix 2: Initial Product Burn-down Chart

Initial Product Burn-down Chart





Appendix 3: Initial Sprint Backlog

The table below displays all the tasks associated with the Sprint 1 backlog. The actual time spent on the tasks will be filled as the tasks are completed. The initial task assignments are determined by category according to the following scheme:

Alyan - Supplier Order

Brandon - General, Landing, Accessibility

Keeley - Employee, Inventory

Vittoria - Trends, Menu (Manager)

Joanne - Menu Board, Customer

ID	Sprint	Category	Task	Time Estimate (hours)	Time Spent (hours)	Dependency	Status	Priority
1-1-a	1	General	Ensure that the website is publicly accessible	1	0.5	None	Complete	High
1-1-b	1	General	Create a button that links to the settings page and allows the user to change the accessibility settings, and log out in React	1	0.75	None	In Progress	High
1-1-c	1	General	Create buttons for Inventory, Trends, Employee, Menu, and Supplier Orders that all link to each other in React in the manager Screen	.25	1	None	Complete	High
1-2-a	1	Landing Screen	Create the Landing page so that when clicked, the customer screen is	.25	1	None	Complete	High



			loaded					
1-2-b	1	Landing Screen	Add the gear icon in the top right corner of the landing page	.25	0.5	None	Complete	Medium
1-2-c	1	Landing Screen	Ensure that the login screen appears when an employee wants to log in	.25	0.5	1-1-b	Complete	Medium
1-2-d	1	Landing Screen	Ensure that the login screen outputs errors when the username or password is entered incorrectly	1	1	1-2-c and 1-3-b	Complete	Low
1-3-a	1	Employee Screen	Ensure that the “Employee” button is highlighted to indicate that you are on the employee screen	.25	.25	1-1-c	Complete	Low
1-3-b	1	Employee Screen	Translate existing Java backend files to Javascript for employee	2	1	None	Complete	High
1-4-a	1	Inventory Screen	Translate existing Java backend files to Javascript for inventory	2	2	None	Complete	High
1-4-b	1	Inventory Screen	Ensure that the “Inventory” button is highlighted to indicate that you are on the inventory screen	.25	.25	1-1-c	Complete	Low



1-4-c	1	Inventory Screen	Create a save changes button that saves the changes made on the screen in React	.25	.25	None	Complete	High
1-4-d	1	Inventory Screen	Create an entity for each ingredient that has its current quantity, its warning quantity, location, and unit used in React	.25	.5	1-4-a	Complete	High
1-4-e	1	Inventory Screen	Make sure that each entity for each ingredient is able to be edited in React	.25	.25	1-4-c	Complete	High
1-4-f	1	Inventory Screen	Align all of the entities in a grid in React	.25	.25	1-4-c	Complete	Low
1-4-g	1	Inventory Screen	Ensure that the grid is scrollable	.25	.25	1-4-e	Complete	Medium
1-4-h	1	Inventory Screen	Ensure that you can add a new ingredient with its name, quantity, quantity warning, unit and location.	1	2	1-4-a	Complete	High
1-4-i	1	Inventory Screen	Ensure that you can delete an ingredient	1	1	1-4-a	Complete	High
1-5-a	1	Trends Screen	Translate existing Java backend files to Javascript for trends	2.5	4	None	Complete	High
1-5-b	1	Trends Screen	Add trend buttons for each trend	.25	.50	None	Complete	High



			available that allow user to click on which trend they want to see				ete	
1-5-c	1	Trends Screen	Ensure that the trend button is highlighted for which specific trend you are on	.25	.15	1-5-a	Compl ete	Low
1-5-d	1	Trends Screen	Ensure that the “Trends” button is highlighted to indicate you are on the trends screen	.25	.15	1-1-c	Compl ete	Low
1-5-e	1	Trends Screen	Ensure that the proper date text box and ingredient/weather dropdowns are present for a specific trend	.25	1.5	None	In Pro gress	Medium
1-5-f	1	Trends Screen	Create button that allows user to enter in their selected dates/ingredient/weather	.25	.25	None	Compl ete	Medium
1-5-g	1	Trends Screen	Create the graphs or data table for each trend in React and ensure that it pulls the proper information from the backend	1	1.5	1-5-a	In Pro gress	High
1-6-a	1	Menu Screen (Manager)	Translate existing Java backend files to Javascript for menu items	2	3	None	In Pro gress	High
1-6-b	1	Menu	Create buttons	.25	.25	None	Co	High



		Screen (Manager)	that contain the menu categories in React				mpl ete	
1-6-c	1	Menu Screen (Manager)	Create buttons that appear for each menu item listing their name and allowing the manager to click on them and edit them	1	2	1-6-b	Co mpl ete	High
1-6-d	1	Menu Screen (Manager)	Ensure that the “Menu” button is selected, indicating that you are on the menu screen	.25	.25	1-1-c	In Pro gres s	Low
1-6-e	1	Menu Screen (Manager)	Ensure that the specific menu category button is selected, indicating that you are on that specific menu category	.25	.25	1-6-c	Co mpl ete	Low
1-6-f	1	Menu Screen (Manager)	Allow manager to change the name, price, and category for each menu item through clicking on the specific menu item	1	2	1-6-a	In Pro gres s	High
1-6-g	1	Menu Screen (Manager)	Allow managers to add ingredients to a menu item	.5	1	1-6-a	In Pro gres s	High
1-6-h	1	Menu Screen (Manager)	Allows managers to delete ingredients to a menu item	.5	1	1-6-a	In Pro gres s	High
1-6-i	1	Menu	Create button that	.5	.5	1-6-a	In	High



		Screen (Manager)	allows a manager to delete a menu item once inside the edit menu item				Pro gres s	
1-6-j	1	Menu Screen (Manager)	Create button that allows a manager to add a new menu item	.5	1	1-6-a	In Pro gres s	High
1-7-a	1	Supplier Order Screen	Ensure that “Supplier Order” screen is selected, indicating that you are on the supplier order screen	.25	.25	1-1-c	Co mpl ete	Low
1-7-b	1	Supplier Order Screen	Translate existing Java backend files to Javascript for supplier orders	3	2	None	In Pro gres s	High
1-7-c	1	Supplier Order Screen	Create grid that displays the supplier order number, date, supplier, ingredient, quantity received of ingredient, and quantity ordered of ingredient	.25	1	None	In pro gres s	High
1-7-d	1	Supplier Order Screen	Create button that allows manager to add new supplier order and choose ingredients, quantity received, quantity ordered, supplier, and date for the order	1	2	None	Co mpl ete	High
1-8-a	1	Cashier Screen	Translate existing Java backend files to Javascript	3	2	None	In pro gres s	High



							s	
1-8-b	1	Cashier Screen	Ensure customizations can only be made using ingredients present in the inventory	.25	0	1-4-h	Not Started	Medium
1-8-c	1	Cashier Screen	Create a button within the customization pop-up that adds the updated menu item to the order	.25	0	1-8-a	Not Started	High
1-9-a	1	Menu Board	Design a visually appealing and organized layout for the menu board, prioritizing clarity and readability	1	0.5	1-6-c	In progress	High
1-10-a	1	Customer Screen	Include a clear, concise description of each item with its ingredients	.5	0	1-6-c	Not Started	High
1-10-b	1	Customer Screen	Add gluten free and vegetarian labels as an attribute to each ingredient in the database	.5	0	None	Not Started	Medium
1-11-a	1	Customer (Self-ordering)	Translate existing Java backend files to Javascript	.5	0.5	None	In progress	High
1-11-b	1	Customer (Self-ordering)	Design an interface that is visually appealing and intuitive to navigate	1	1	None	In progress	High



1-12-a	1	Accessibility Settings	Add the accessibility gear icon to the top right corner of the customer order screen	.25	0.5	1-1-b	Not Started	High
1-12-b	1	Accessibility Settings	Add options to increase font size or make text bold	.25	1	1-12-a	Complete	High

Sprint 2

Alyan - Trends (8.75)

Brandon - General, Landing Screen, Accessibility, Database (10.5)

Joanne - Customer, Cashier, Menu Board, Menu Board Settings (14.25)

Keeley - Employee, Supplier Order, Inventory (16)

Vittoria - Menu Manager (13.25)

ID	S Print	Category	Descp	Esti mated	Time Spe nt	Depend encies	Status	Priorit y
2-1-a	2	General	Create color scheme and ensure that it is the same throughout the whole project	.75		None	Not Sta rted	Low
2-1-b	1	General	Create a button that links to the settings page and allows the user to change the accessibility settings, and log out in React	1	0.5	None	Not Sta rted	High
2-2-a	2	Landing Screen	Add images to landing page	2		1-2-a	Not Sta	Mediu m



						rte d	
2-2-b	2	Landing Screen	Test functionality of new features	2	2-2-a	Not Started	Medium
2-3-a	2	Inventory Screen	Create a warning label and display it for ingredients that have quantities lower than their warning amount in React	.5	None	Not Started	Medium
2-3-b	2	Inventory Screen	Ensure that the warning label is in red and viewable	.25	2-3-a	Not Started	Low
2-3-c	2	Inventory Screen	Ensure that you can change an ingredient's quantity, quantity warning, unit and location.	.75	1	1-4-a	Complete
2-3-d	2	Inventory Screen	Test functionality of new features	2	1-4-(a-i) 2-3(a-c)	Not Started	Medium
2-3-e	2	Inventory Screen	Add display functionality for vegan, vegetarian, and gluten free for each ingredient	.5	2-13-b	Not Started	Medium
2-3-f		Inventory Screen	Add edit functionality for vegan, vegetarian, and gluten free for each ingredient	.5	2-13-b	Not Started	Medium
2-4-a	2	Trends Screen	Ensure that the sales report trend is properly calculated in Javascript. Instead of the current java implementation,	3	None	Not Started	High



			ensure that the sales reports calculates the 10% by getting the current quantity of ingredient, go into sales history and get amount used, calculate amount used / (current amount + amount used) and see if it's under 10%					
2-4-b	2	Trends Screen	Ensure that the proper error messages pop up when an incorrect date is entered	.5	1-5(a-g)	Not Started	Medium	
2-4-c	2	Trends Screen	Test functionality of new features	4	2-4(a-b)	Not Started	Medium	
2-4-d	1	Trends Screen	Ensure that the proper date text box and ingredient/weather dropdowns are present for a specific trend	.25	1	None	In Progress	Medium
2-4-e	1	Trends Screen	Create the graphs or data table for each trend in React and ensure that it pulls the proper information from the backend	1	1-5-a	1-5-a	High	
2-5-a	2	Menu Items (Manager Screen)	Add the functionality for managers to be able to upload images of items and associate them with the menu item	3	None	Not Started	Medium	
2-5-b	2	Menu Items (Manager Screen)	Ensure that when you delete a menu item and add it back with same name it does not contain the previous ingredients of the first menu item	1	1-6-a	Not Started	Medium	



2-5-c	2	Menu Items (Manager Screen)	Ensure that only nonnegative values can be entered in for the price	.25	.25	1-6-f	In Progress	Medium
2-5-d	2	Menu Items (Manager Screen)	Test functionality of new features	3		1-5-(a-d)	Not Started	Medium
2-5-e	1	Menu Screen (Manager)	Translate existing Java backend files to Javascript for menu items	2	2	None	In Progress	High
2-5-f	1	Menu Screen (Manager)	Ensure that the “Menu” button is selected, indicating that you are on the menu screen	.25		1-1-c	Not Started	Low
2-5-e	1	Menu Screen (Manager)	Ensure that the specific menu category button is selected, indicating that you are on that specific menu category	.25	.25	1-6-c	Complete	Low
2-5-f	1	Menu Screen (Manager)	Allow manager to change the name, price, and category for each menu item through clicking on the specific menu item	1	2	2-5-e	In Progress	High
2-5-g	1	Menu Screen (Manager)	Allow managers to add ingredients to a menu item	.5	1	2-5-e	In Progress	High
2-5-h	1	Menu Screen (Manager)	Allows managers to delete ingredients to a menu item	.5	1	2-5-e	In Progress	High
2-5-i	1	Menu Screen (Manager)	Create button that allows a manager to delete a menu item once	.5	.5	2-5-3	In Progress	High



		inside the edit menu item				ss	
2-5-j	Menu Screen (Manager)	Allow managers to add/change images to a menu item	.5		2-13-a	Not Started	Medium
2-5-k	Menu Screen (Manager)	Include a clear, concise description of each item with its ingredients	.5		2-13-e	Not Started	Medium
2-6-a	2 Employees Screen	Display list of current employees with their name, employee ID, and role	1	1	1-3-b	Complete	High
2-6-b	2 Employees Screen	Allow the manager to add new employees	1		1-3-b	Not Started	High
2-6-c	2 Employees Screen	Allow the manager to delete employees	1		1-3-b	Not Started	High
2-6-d	2 Employees Screen	Allow the manager to change the role of an employee	.25		1-3-b	Not Started	High
2-6-e	2 Employees Screen	Test functionality of new features	2		2-6-(a-d)	Not Started	High
2-7-a	2 Supplier Orders Screen	Ensure that quantity received, quantity ordered are nonnegative integers	.25		1-7-d	Not Started	Medium
2-7-b	2 Supplier Orders Screen	Ensure that date is properly entered and display a warning if it is	.25		1-7-d	Not Started	Medium



			not				d	
2-7-c	2	Supplier Orders Screen	Ensure that changes are reflected in database and in inventory	1.5	1	1-7-(a-d)	In Progress	High
2-7-d	2	Supplier Orders Screen	Test functionality of new features	2		2-7-(a-c)	Not Started	High
2-7-e	1	Supplier Order Screen	Translate existing Java backend files to Javascript for supplier orders	3	2	None	In Progress	High
2-7-f	1	Supplier Order Screen	Create grid that displays the supplier order number, date, supplier, ingredient, quantity received of ingredient, and quantity ordered of ingredient	.25	1	None	In Progress	High
2-8-a	2	Cashier Screen	Ensure inventory warnings are up-to-date when customizing an item and visible beyond color differentiation	.5		1-4-d 2-3-(a-c)	Not Started	High
2-8-b	2	Cashier Screen	Create a button within a menu item that redirects to a pop-up of ingredients available to add, modify, or remove	1		1-6-c	Not Started	High
2-8-c	2	Cashier Screen	Create a button that enables cashiers to efficiently edit the quantity of each ingredient in the menu item	.25		1-6-(g-h)	Not Started	Medium
2-8-d	2	Cashier Screen	Ensure ingredients available for	.25		None	Not Started	Medium



			customization are well-organized, scrollable, and/or searchable				rte d	
2-8-e	1	Cashier Screen	Translate existing Java backend files to Javascript	3	2	None	Not started	High
2-8-f	1	Cashier Screen	Ensure customizations can only be made using ingredients present in the inventory	.25		1-4-h	Not Started	Medium
2-8-g	1	Cashier Screen	Create a button within the customization pop-up that adds the updated menu item to the order	.25		2-8-e	Not Started	High
2-10-a	2	Customer Screen	Translate existing Java backend files to Javascript	1	0.5	None	In progress	High
2-10-c	2	Customer Screen	Add the accessibility gear icon to the top right corner of the customer order screen	.25		1-1-b	Not Started	High
2-11-a	2	Customer (Self-ordering)	Incorporate design elements that reflect Rev's theme and personality	.25		None	Not Started	Low
2-11-c	2	Customer (Self-ordering)	Create buttons within each tile to customize the item, add it to the order, or make it a combo	1.5		2-8-b 1-8-c	Not Started	High
2-11-d	1	Customer Screen	Display the description of menu item and ingredient list	.5		1-6-c	Not Started	High



2-11-e	1	Customer Screen	Display the dietary restriction labels for the menu items	.5		None	Not Started	Medium
2-11-f	1	Customer (Self-ordering)	Translate existing Java backend files to Javascript	.5	0.5	None	In progress	High
2-11-g	1	Customer (Self-ordering)	Design an interface that is visually appealing and intuitive to navigate	1	1	None	In progress	High
2-12-a	2	Accessibility Settings	Switch between color schemes depending on user preferences, disabilities, or color blindness type	.5		1-12-a	Not Started	High
2-12-b	2	Accessibility Settings	Add dropdown option to translate web page text into any language provide by the Google API	.25		1-12-a	Not Started	High
2-13-a	2	Database	Be able to add images to a menu item in the database	1		None	Not Started	High
2-13-b	2	Database	Add vegetarian, vegan, and gluten free labels to ingredients	.5		None	Not Started	Medium
2-13-c	2	Database	Add in menu item table to check through all ingredients for whether it is vegetarian, vegan or gluten free	1		2-13-b	Not Started	Medium
2-13-c	2	Database	Add column to menu item to see if it is currently being	.5		None	Not started	Medium



TEXAS A&M UNIVERSITY

Department of Computer
Science & EngineeringCSCE 315: Programming Studio
Project 3 – Frontend Focus

			promoted or not					
2-13-d	2	Database	Modify ingredients column to change non-edible ingredients to a specific location so they don't show up on customizations	.5		None	Not started	Medium
2-13-e		Database	Add description column for menu items	.5		None	Not started	Medium
2-14-a		Menu Board Settings Screen	Create promotion categories	.5		2-13-c	Not Started	High
2-14-b		Menu Board Settings Screen	Create promotion dropdown for each menu item	.75		2-14-a	Not Started	Medium
2-14-c		Menu Board Settings Screen	Create button that saves changes	.5		2-14-b	Not Started	High
2-14-d		Menu Board Settings Screen	Make changes editable and reflect in database/menu screen	.5		2-14-(a-c)	Not Started	High
2-15-a	1	Menu Board	Design a visually appealing and organized layout for the menu board, prioritizing clarity and readability	1		1-6-c	Not Started	High