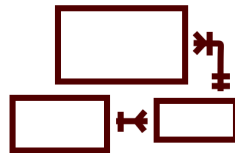




Sprint 3 Materials

Team 10 CPEN



TEAM 10 CPEN

Alexander Nuccitelli

Zhongyou Wu

Utsawb Lamichhane

Zane Meikle

Sean Lee

Jonathan Moore

Retrospective Summary

During the retrospective meetings, group members shared what worked really well during the sprint and what did not go as well. In summary, peer programming and some of the libraries we added boosted productivity and development quality by a very noticeable margin. However, there were knowledge gaps between group members for projects that could have been solved with more weekly meetings and branch integration.

Peer programming was highly praised especially when implemented with tools like live share. When a programmer can just focus on writing a code while another one browses through the documentations, it speeds up development a ton. Live share also has the added bonus that it avoids a lot of integration and merging issues since everyone is essentially working on the same branch with the same machine.

Libraries like socket io and shadCN also make development a breeze. Socket io helped us overcome a lot of the issues we had with prisma and gave us real time updates. ShadCN helped with our UI styles and consistency.



This sprint, unfortunately, was not all sunshine and rainbows. A lot of features and tasks were thrown out of the window and redone because some of the feature branches were behind the main branch (sometimes up to 200 commits!). At that point, the backend of the project had changed so drastically that it was easier to scrap the feature and start over from a different page. Some team members also weren't as familiar with the latest library added to the project and couldn't contribute as much in the final hours of the sprint.

GitHub Release Link

<https://github.com/csce-315-331-2024a/project-3-full-stack-agile-web-902-10/releases/tag/v0.3>

Product Backlog

High Priority 25 Estimate: 54.5					
1	Make a page to sort all of the employee management features. #18	Done	1	Sprint 1	ZhongyouWuTAMU
2	Make a page for the menu board. #34	Done	1	Sprint 1	zsmekle
3	Create a cart that displays all menu items that a customer selects before they order. #42	Done	3		Utsawb
4	Make a menu board that dynamically updates based on the current menu in the database. #33	Done	5	Sprint 1	zsmekle
5	Make sure menu pops up in a separate window that does not close with a button press #32	Done	1	Sprint 1	zsmekle
6	Add weather integration to the menu board using OpenWeather or something similar. #36	Done	2	Sprint 2	zsmekle
7	Add weather condition #67	Done	0.5	Sprint 3	zsmekle
8	Make an order screen that displays all menu items currently in the database. #2	Done	4	Sprint 1	Utsawb
9	Make sure that each item in the order screen displays the current price from the database. #5	Done	2	Sprint 1	Utsawb
10	Create an order button that allows for customers to order what is currently in the cart. #48	Done	1		
11	Once the order button is pressed, the database should be updated with a new order and what was ordered. #46	Done	1	Sprint 2	Utsawb
12	Once the order button is pressed, the ingredients should be subtracted from the database that were used in the order. #47	Done	1	Sprint 2	Utsawb
13	Make sure that menu items that are shown to the customer are easily accessible and categorized in a way that makes sense. #68	Done	6	Sprint 3	Utsawb
14	Add google translate support such that customers can change the language of the menu items and interface. #69	Done	2	Sprint 3	Utsawb
15	Make a page to view trends. #20	Done	1	Sprint 1	anaccitelli2
16	Make a page for cashier. #31	Done	1	Sprint 1	sean3-lee
17	Make a cart and dynamic menu board without pictures for quick selection. #30	Done	5	Sprint 1	sean3-lee
18	Repeat edit menu page for ingredients #70	Done	6	Sprint 3	jonath00n
19	Manager screen needs to push to database for adding and editing menu items #71	Done	4	Sprint 3	jonath00n
20	create a new connection from the manager screen to the database. #29	Done	2	Sprint 1	jonath00n
21	Research Prisma #62	In Progress	1	Sprint 3	anaccitelli2
22	Research Prisma #63	Done	1	Sprint 3	jonath00n
23	Research Prisma #64	In Progress	1	Sprint 3	sean3-lee
24	Research Prisma #66	Done	1	Sprint 3	ZhongyouWuTAMU
25	Research Prisma #65	Done	1	Sprint 3	Utsawb



Medium Priority (22) Estimate: 58					
26	Make button for excess report. #41	Done	0.5	Sprint 2	anuccitelli2
27	Make button for sales report. #39	Done	0.5	Sprint 2	anuccitelli2
28	Make button for product usage chart. #40	Done	0.5	Sprint 2	anuccitelli2
29	Make button for what sells together. #19	Done	0.5	Sprint 1	anuccitelli2
30	Allow for a table that displays all current employees and their information. #28	Done	4	Sprint 1	ZhongyouWuTAMU
31	Create new data tables in the database for employee records and information. #27	Done	1	Sprint 1	ZhongyouWuTAMU
32	Make button for restock report. #17	Done	0.5	Sprint 1	anuccitelli2
33	Make the menu board look visually pleasing, people should be able to clearly read items from afar. #35	Done	6	Sprint 2	zsmekle
34	Make page fill the screen and not have a scroll bar. #72	Done	1	Sprint 3	zsmekle
35	Stretch Goal: Add menu item by quantity #44	Task Backlog Manager T...	3	Sprint 3	sean3-lee
36	Implement the Menu Items Popularity Analysis Trend #73	Task Backlog Manager T...	2.5	Sprint 3	jonath00n
37	Populate order history #51	Done	2	Sprint 2	anuccitelli2
38	Add date pickers to change the date of certain trends #74	Task Backlog Manager T...	5	Sprint 3	jonath00n
39	Allow for addition and removal of employees, which will automatically update the database. #75	Task Backlog Add/Remov...	4	Sprint 3	ZhongyouWuTAMU
40	Allow the ability to edit employee information and update it in the database. #76	Task Backlog Add/Remov...	3	Sprint 3	ZhongyouWuTAMU
41	Allow the modification of ingredients before adding an item to your cart. #49	Done	7	Sprint 2	Utsawb
42	Allow the modification of items in the cart, either remove or change ingredients of said item. #77	Done	4	Sprint 3	anuccitelli2
43	In the selection for items, make all items that don't have requisite ingredients present in stock unselectable. #6	Done	3	Sprint 1	Utsawb
Low Priority (41) Estimate: 49.5					
48	Make make the sales report. #37	Done	4	Sprint 2	anuccitelli2 and jon...
49	Make excess report. #60	Done	4	Sprint 2	anuccitelli2
50	Make a product usage chart. #38	Done	4	Sprint 2	anuccitelli2
51	Make Restock Report #24	Done	4	Sprint 1	anuccitelli2
52	Make a what sells together chart. #23	Done	4	Sprint 1	anuccitelli2
53	Polish up formatting and look #79	Task Backlog Menu Board	4	Sprint 3	zsmekle
54	Make a visually pleasing GUI for the manager to be able to use the new front end features. #80	Task Backlog Add/Remov...	6	Sprint 3	ZhongyouWuTAMU
55	Have an image associated with each menu item in order to improve the user experience. #45	Done	5	Sprint 2	sean3-lee, Utsawb, ...
56	After completing an order, display a confirmation screen that shows all items ordered, total money spent, and an order number. #81	Task Backlog Customer	4	Sprint 3	ZhongyouWuTAMU
57	Need a display for current cart with total price on the same page as the order screen. #22	Done	2		
58	Stretch goal: Automatic switching to cashier page when logging in with employee account #43	Task Backlog Cashier	2	Sprint 3	sean3-lee
59	Make a button to edit ingredients within a menu item. #21	Done	0.5	Sprint 1	jonath00n
60	Add a description of each trend and what it does #61	Done	2	Sprint 2	anuccitelli2
61	Allow for the change to occur dynamically.	Done	4	Sprint 3	jonath00n
Stretch Goal (3) Estimate: 29					
62	Stretch Goal: Allow the menu board to be edited from a separate manager instance.	Task Backlog Menu Board	5		
63	Stretch Goal: manage menu board sessions from management screen.	Task Backlog Menu Board	3		
64	Get second board to cycle instead of stall while the other is still going #50	Task Backlog Menu Board	3	Sprint 3	zsmekle
65	Clean up the page to make it look pretty #83	Task Backlog Manager T...	4	Sprint 3	anuccitelli2
66	Stretch Goal: make the text size adjustable to the screen for readability. #82	Task Backlog Cashier	4	Sprint 3	sean3-lee
67	Stretch Goal: Add a new seasonal menu item.	Manager Menu Tasks	3		
68	Show draft of the new menu board with the updates.	Manager Menu Tasks	3		

Sprint Backlog

High Priority (10) Estimate: 23.5					
1	Add weather condition #67	Done	0.5	Sprint 3	zsmekle
2	Make sure that menu items that are shown to the customer are easily accessible and categorized in a way that makes sense. #68	Done	6	Sprint 3	Utsawb
3	Add google translate support such that customers can change the language of the menu items and interface. #69	Done	2	Sprint 3	Utsawb
4	Repeat edit menu page for ingredients #70	Done	6	Sprint 3	jonath00n
5	Manager screen needs to push to database for adding and editing menu items #71	Done	4	Sprint 3	jonath00n
6	Research Prisma #62	In Progress	1	Sprint 3	anuccitelli2
7	Research Prisma #63	Done	1	Sprint 3	jonath00n
8	Research Prisma #64	In Progress	1	Sprint 3	sean3-lee
9	Research Prisma #66	Done	1	Sprint 3	ZhongyouWuTAMU
10	Research Prisma #65	Done	1	Sprint 3	Utsawb



Medium Priority Estimate: 24.5				
11	Make page fill the screen and not have a scroll bar. #72	Done	1	Sprint 3 zsmekle
12	Stretch Goal: Add menu item by quantity. #44	Task Backlog Manager T...	3	Sprint 3 sean3-lee
13	Implement the Menu Items Popularity Analysis Trend. #73	Task Backlog Manager T...	2.5	Sprint 3 jonath00n
14	Add date pickers to change the date of certain trends. #74	Task Backlog Manager T...	5	Sprint 3 jonath00n
15	Allow for addition and removal of employees, which will automatically update the database. #75	Task Backlog Add/Remov...	4	Sprint 3 ZhongyouWuTAMU
16	Allow the ability to edit employee information and update it in the database. #76	Task Backlog Add/Remov...	3	Sprint 3 ZhongyouWuTAMU
17	Allow the modification of items in the cart, either remove or change ingredients of said item. #77	Done	4	Sprint 3 anuccitelli2
18	Page to edit ingredients of menu items. #78	Done	2	Sprint 3 jonath00n
+ Add Item				
Low Priority Estimate: 20				
19	Polish up formatting and look. #79	Task Backlog Menu Board	4	Sprint 3 zsmekle
20	Make a visually pleasing GUI for the manager to be able to use the new front end features. #80	Task Backlog Add/Remov...	6	Sprint 3 ZhongyouWuTAMU
21	After completing an order, display a confirmation screen that shows all items ordered, total money spent, and an order number. #81	Task Backlog Customer	4	Sprint 3 ZhongyouWuTAMU
22	Stretch goal: Automatic switching to cashier page when logging in with employee account. #43	Task Backlog Cashier	2	Sprint 3 sean3-lee
23	Allow for the change to occur dynamically.	Done	4	Sprint 3 jonath00n
Stretch Goal Estimate: 11				
24	Get second board to cycle instead of stall while the other is still going. #50	Task Backlog Menu Board	3	Sprint 3 zsmekle
25	Clean up the page to make it look pretty. #83	Task Backlog Manager T...	4	Sprint 3 anuccitelli2
26	Stretch Goal: make the text size adjustable to the screen for readability. #82	Task Backlog Cashier	4	Sprint 3 sean3-lee

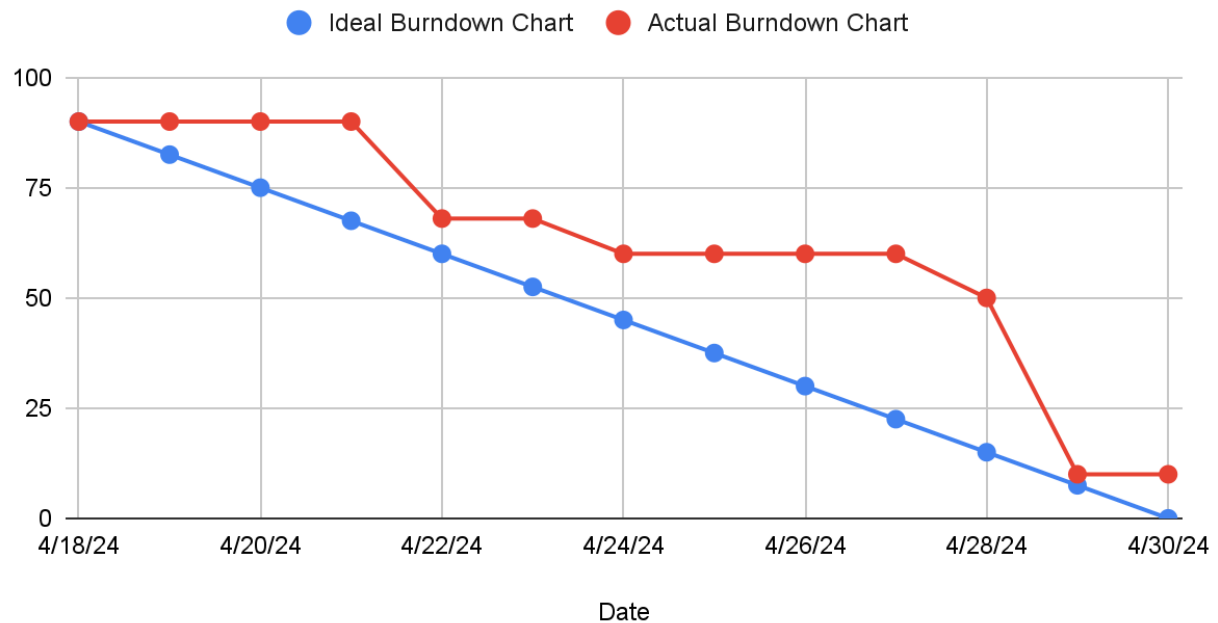
Summary Table:

Team Member	Sprint 1	Sprint 2	Sprint 3	Total
Utsawb	9	14	9	32
Alexander	10	17.5	9	36.5
Sean	6	8	7	21
Jonathan	5.5	7	28.5	41
Zane	7	13	8.5	28.5
Wu	6	6	12	24



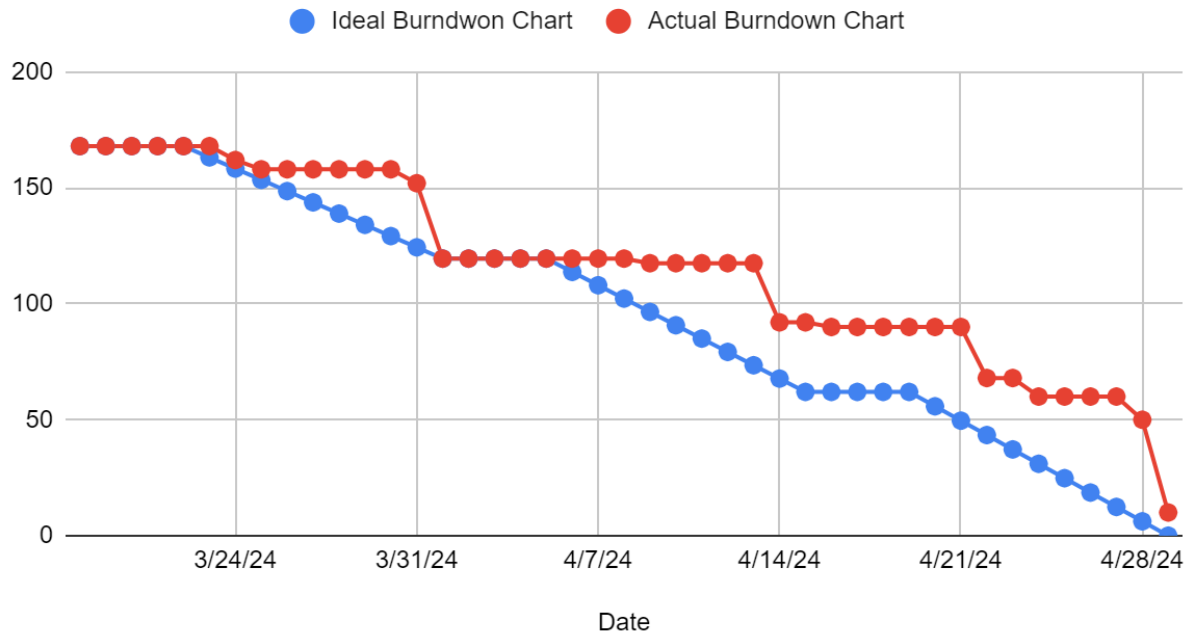
Burn-down Charts

Sprint 3 Burn Down Chart



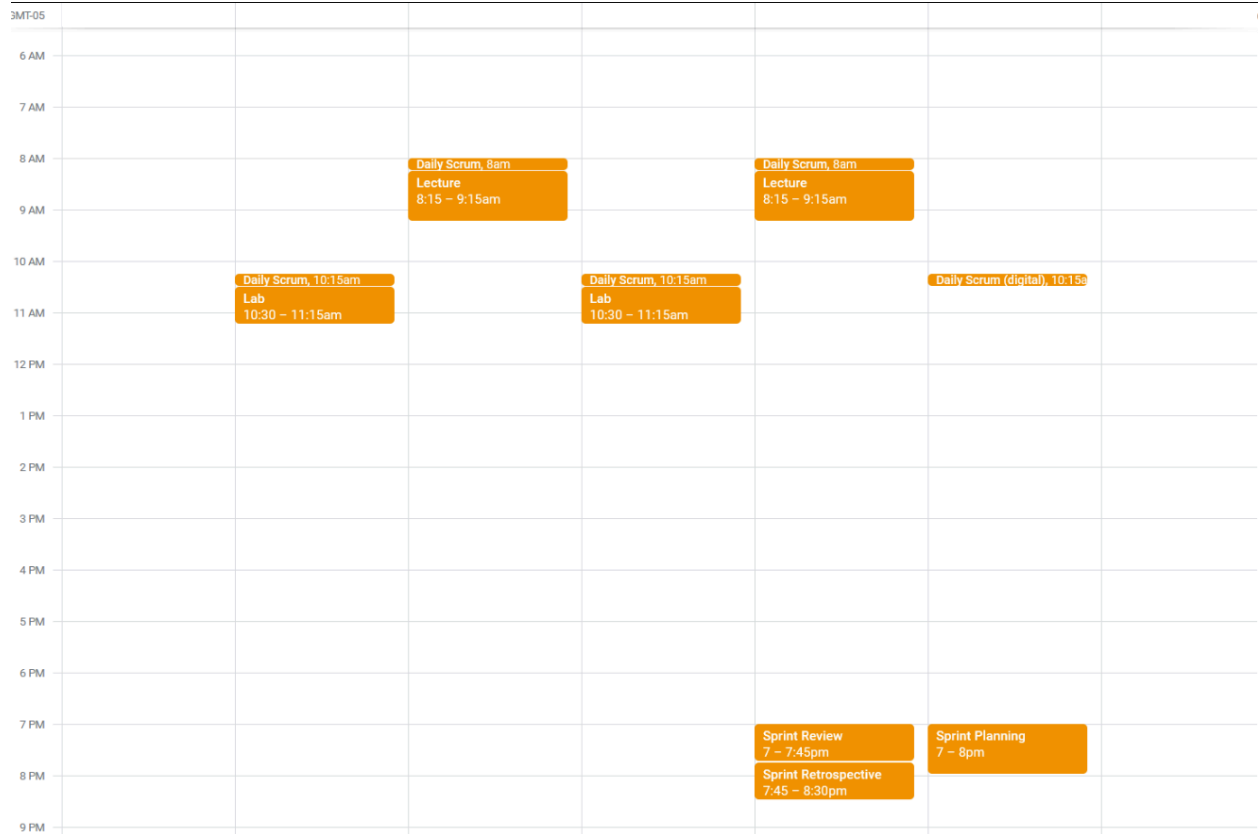


Total Burndown Chart





Next Sprint's SCRUM Meeting Schedule





Appendix 1: SCRUM Meeting Agendas and Minutes

SCRUM Meeting 1 for Rev's American Grill Web App POS

Prepared by: Zhongyou Wu

Meeting Date: 4/17/2024

Meeting Attendees

1. Alexander Nuccitelli
2. Zhongyou Wu
3. Zane Meikle
4. Sean Lee
5. Jonathan Moore

Meeting Agenda Items

- Progress since last meeting
- Blocker check up

Status Update Since Last Meeting

Accomplishments:

- Jonathan researched prisma.

Tasks Completed:

Task Description	Assigned to	Completed? (yes/no)
None	N/A	N/A

Before The Next Meeting

Plans:

- Focus on other coursework

Task Assignments:

Task Description	Assigned to
None	N/A



Minutes from Previous Meeting

Minute 1:

Alex:

Did nothing

Start working on other homework

Impediments: Other homework

Minute 2:

Sean

Been thinking

Plan on adding cart display on the right side of page.

Impediments:

Minute 3:

Jonathan

Started editing the edit menu page. Make it look pretty / less buggy

Today will studying cryptography

Impediments: Other classes

Minute 4:

Zane

Did nothing

Thursdays implementing weather API

Impediment: ECEN 449



SCRUM Meeting 2 for Rev's American Grill Web App POS

Prepared by: Zhongyou Wu

Meeting Date: 4/18/2024

Meeting Attendees

6. Alexander Nuccitelli
7. Zhongyou Wu
8. Zane Meikle
9. Sean Lee
10. Jonathan Moore

Meeting Agenda Items

- Progress since last meeting
- Blocker check up

Status Update Since Last Meeting

Accomplishments:

- Worked on team documents
- Worked on removing scroll bar from menu board
- Worked on API

Tasks Completed:

Task Description	Assigned to	Completed? (yes/no)
None	N/A	None

Before The Next Meeting

Plans:

- Add weather condition to the Weather API function
- Learn how to use websocket API

Task Assignments:

Task Description	Assigned to
Add weather condition	Zane Meikle



Minutes from Previous Meeting

Minute 0:

Jonathan:

Did a lot of research into prisma

Blocker: Couldn't convert string to int

Minute 1:

Same as last for everyone else



SCRUM Meeting 3 for Rev's American Grill Web App POS

Prepared by: Zhongyou Wu

Meeting Date: 4/22/2024

Meeting Attendees

11. Alexander Nuccitelli
12. Zhongyou Wu
13. Zane Meikle
14. Sean Lee
15. Jonathan Moore
16. Utsawb Lamichhane

Meeting Agenda Items

- Progress since last meeting
- Blocker check up

Status Update Since Last Meeting

Accomplishments:

- Changed the theme for the menu board fixing the scroll bar issue
- Added Weather condition
- Rewrote the API from python to typescript
- Finished the cart on the side of the cashier page
- Worked on manager screen and implementing the API calls to add menu items
- Added deleting item without actually deleting from database
- Update trends to only display active items

Tasks Completed:

Task Description	Assigned to	Completed? (yes/no)
Add weather condition	Zane Meikle	yes
Cart on cashier page	Sean Lee	Yes

Before The Next Meeting

Plans:

- Getting tailwind to produce the correct output



-
- Talk with people to figure out menu item modifications
 - Try to adjust for personas
 - Continuing to work on the manager screen and implementing the API call
 - Work on the cart for the customer page

Task Assignments:

Task Description	Assigned to
None	N/A

Minutes from Previous Meeting

Minute 0:

Zane: Tried to disable scrollbar

Plan to do today: Add weather condition

Roadblock: Scrollbar is cringe

Minute 2:

Jonathan: Tried to write an API just to realize it's redundant work

Plan to do today: Learn to use the web socket API

Roadblock: API issues

Minute 3:

Alex: Did do anything

Plan to do: Learn to use the web socket API

Sean: Did do anything

Plan to do: Learn to use the web socket API

Wu: worked on a bunch of team documents

Plan to do: Learn to use the web socket API



SCRUM Meeting 4 for Rev's American Grill Web App POS

Prepared by: Zhongyou Wu

Meeting Date: 4/24/2024

Meeting Attendees

17. Alexander Nuccitelli
18. Zhongyou Wu
19. Zane Meikle
20. Sean Lee
21. Jonathan Moore
22. Utsawb Lamichhane

Meeting Agenda Items

- Progress since last meeting
- Blocker check up

Status Update Since Last Meeting

Accomplishments:

- Added more contents to the menu board
- Made the ingredients edit menu
- Implementing unit testing
- Worked on the cart and adding things to the cart
- Worked on ingredients modification

Tasks Completed:

Task Description	Assigned to	Completed? (yes/no)
None	N/A	None

Before The Next Meeting

Plans:

- Work on menu board test bench
- Work on pushing updates to the database
- Get customer user flow finished

Task Assignments:



Task Description	Assigned to
None	N/A

Minutes from Previous Meeting

Minute 0:

Zane: Changed theme for the menu board, added weather condition

Plan to do today: Additional touch up on the design.

Roadblock: Getting tailwind to do the correct thing.

Minute 2:

Utsawb: Rewrote the API from python to typescript. Did everything supabase would have done out of spite.

Plan to today: Talk with people to figure out menu item modifications

Roadblock: Lack of design skills

Minute 5:

Sean: Finished the cart on the side.

Plan to do today: Try to adjust for personas

Roadblock: Boredom

Minute 11:

Jonathan: Been working on the manager screen and implementing the API calls to add menu items.

Plan to do today: Keep doing that

Roadblock: Get things to run locally.

Minute 12:

Alex: Added deleting item without actually deleting from database. Update trends to only display active items.

Plan to do today: Work on the cart for the customer page.

Roadblock: Didn't write the original customer page, need to familiarize



Minutes from SCRUM Meeting 4

Minute 0:

Zane: Added more contents to the menu board

Today: Working on test bench

Roadblock: Use effects

Minute 1:

Jonathan: Made the ingredients edit menu.

Today: Work on pushing updates to database

Roadblocks:

Minute 2:

Sean: Studying for other classes

Today: Studying for other classes

Roadblocks: Other classes

Utsawb: Implementing unit testing

Today: Get customer user flow finished

Roadblock: Trouble testing and mocking

Minute 3:

Alex: Working on the cart and adding things to the cart. Working with ingredients modification

Today:

Blockers: Getting cart to automatically toggle