



Sprint 3 Materials

903-13



Aditya Biradar
Isaac Ambro
Karan Bhalla
Kelvin Su
Kunal Jain
Wyatt Cade

Retrospective Summary

The team achieved significant progress this past sprint by completing all planned features. This success can be attributed to a noticeable improvement in communication and collaboration. This positive team environment fostered a sense of togetherness and resulted in a high-quality product. However, there are areas for growth. Time management could be optimized, as several members mentioned tight deadlines, particularly during accessibility testing. Deploying features close to the deadline caused some stress, highlighting the need for improved prioritization. Integrating a discussion on task priorities during future project planning sessions, even outside formal sprints, would likely lead to a smoother workflow and alleviate last-minute pressure.

The product backlog itself doesn't require major revisions. However, minor adjustments are necessary to address small issues identified during development. These tweaks will ensure a polished final presentation. While core functionalities were achieved, these adjustments will elevate the overall user experience. By incorporating these learnings and focusing on better time management through task prioritization, the team is set to deliver a successful final product.



GitHub Release Link

GitHub Release:

<https://github.com/csce-315-331-2024a/project-3-full-stack-agile-web-project-3-903-13/releases/tag/V3.0>

Deployed MVP:

<https://project-3-full-stack-agile-web-project-3-903-13-six.vercel.app/>

Product Backlog

The screenshot shows a Jira Product Backlog for the project "project-3-full-stack-agile-web-project-3-903-13". The backlog is organized into columns: Done, In Progress, and To Do. Each item is a user story with a description, tasks, and a status label.

- Done (14 items):**
 - project-3-full-stack-agile-web-project-3-903-13 #51: As a blind user (stretch goal), I want an inbuilt text-to-speech reader so that I can understand what is on the website and to ensure I can navigate the page properly (5 tasks) [J] (User Story J)
 - project-3-full-stack-agile-web-project-3-903-13 #49: As a customer with unsteady hands, I want the buttons to be large enough and easily clickable so that I do not have excessive trouble navigating. (3 tasks) [I] (User Story I)
 - project-3-full-stack-agile-web-project-3-903-13 #48: As a customer with bad eyesight, I want the ability to easily enlarge text on the website and make the website have high contrasting colors so that I can read without straining my eyes, and it should expectedly be clean to look at. (11 tasks) [H] (User Story H)
 - project-3-full-stack-agile-web-project-3-903-13 #47: As primarily a phone user, I want the website to be easily accessible with a mobile device and still readable on a smaller screen. (2 tasks) [G] (User Story G)
- In Progress (5 items):**
 - project-3-full-stack-agile-web-project-3-903-13 #74: As a developer, I would like all of my code to be tested (2 tasks) [N] (User Story N)
 - project-3-full-stack-agile-web-project-3-903-13 #60: As an administrator, I want to be able to have access to user management tools. (4 tasks) [M] (User Story M)
 - project-3-full-stack-agile-web-project-3-903-13 #50: As a developer, I would like to have the back-end code served on another server (17 tasks) [B] (User Story B)
 - project-3-full-stack-agile-web-project-3-903-13 #46: As a customer who is a health worker, I want to be able to see the dietary information and nutritional facts, as well as allergen warnings if the menu item contains any. (2 tasks) [F] (User Story F)
 - project-3-full-stack-agile-web-project-3-903-13 #58: As a user who orders items, I want to be able to customize the ingredients for menu items I order (2 tasks) [K] (User Story K)
- To Do (5 items):**
 - project-3-full-stack-agile-web-project-3-903-13 #44: As a customer, I would like to be able to see everyday useful content such as the time and weather (6 tasks) [D] (User Story D)
 - project-3-full-stack-agile-web-project-3-903-13 #45: As a bilingual user, I want built-in translation features to view the website with its contents written in my preferred language without needing to manually translate the content. (3 tasks) [E] (User Story E)
 - project-3-full-stack-agile-web-project-3-903-13 #43: As a customer, I would like the POS system to be secure so that malicious people can't go in and take private data from the customers. (3 tasks) [C] (User Story C)
 - project-3-full-stack-agile-web-project-3-903-13 #41: As a developer, I would like to have the front-end code served on one server (5 tasks) [A] (User Story A)
 - project-3-full-stack-agile-web-project-3-903-13 #59: As a manager, I want to be able to view past orders and modify/delete them (3 tasks) [L] (User Story L)

<https://github.com/orgs/csce-315-331-2024a/projects/26/views/1>

Sprint Backlog

Pushed over from Sprint 2:



As primarily a phone user, I want the website to be easily accessible with a mobile device and still readable on a smaller screen. (2 tasks)[G]

G1: Make the website easy on the eyes and readable on mobile devices

1. **Assigned to:** Kunal
2. **Time Estimate:** 1 hr, 1 pt
3. **Time Spent:** 2 hrs
4. **Status:** Completed

As a customer with bad eyesight, I want the ability to easily enlarge text on the website and make the website have high contrasting colors so that I can read without straining my eyes, and it should expectedly be clean to look at. (11 tasks)[H]

H4: Identify color scheme(s) that work universally for individuals with varying levels of eyesight and apply these scheme(s) to the webpage

- **Assigned to:** Kunal
- **Time Estimate:** 0.5 hr, 1 pt
- **Time Spent:** 0.5 hr
- **Status:** Completed

H7: Incorporate animations to enhance visual appeal

- **Assigned to:** Kelvin and Kunal
- **Time Estimate:** 3 hr, 3 pt
- **Time Spent:** 2 hr
- **Status:** Completed

H9: Implement responsive design principles to ensure the GUI adapts smoothly to different screen sizes and devices

- **Assigned to:** Kunal
- **Time Estimate:** 2 hr, 2 pt
- **Time Spent:** 4.5 hr
- **Status:** Completed

H10: Create a toggle that would make everything larger so that it is easier to view

- **Assigned to:** Kunal
- **Time Estimate:** 2 hr, 3 pt
- **Time Spent:** 1 hr
- **Status:** Completed

H11: Create another toggle button for light and dark mode

- **Assigned to:** Kunal
- **Time Estimate:** 2 hr, 2 pt
- **Time Spent:** 0 hr
- **Status:** Completed



Sprint 3 User Stories:

As a customer who is a health worker, I want to be able to see the dietary information and nutritional facts, as well as allergen warnings if the menu item contains any. (2 tasks)[F]

F1: Within each menu item, display important information regarding its dietary information and nutritional facts

1. **Assigned to:** Kelvin
2. **Time Estimate:** 2 hr, 2 pt
3. **Time Spent:** 2 hrs
4. **Status:** Completed

F2: If a menu item contains allergen risks, have a clear warning mentioning the risk

1. **Assigned to:** Kelvin
2. **Time Estimate:** 1.5 hr, 2 pt
3. **Time Spent:** 1 hr
4. **Status:** Completed

As a customer with unsteady hands, I want the buttons to be large enough and easily clickable so that I do not have excessive trouble navigating. (3 tasks) [I]

I1: Ensure buttons are amply sized so people can easily navigate without trouble

1. **Assigned to:** Kunal
2. **Time Estimate:** 1 hr, 1 pt
3. **Time Spent:** 1 hr
4. **Status:** Completed

I2: Make sure interactive elements are spaced out enough so that customers do not accidentally click on the wrong element

1. **Assigned to:** Kunal
2. **Time Estimate:** 0.5 hr, 1 pt
3. **Time Spent:** 1 hr
4. **Status:** Completed

I3: Make it so that the text and buttons are concise enough to understand at a glance. An example of this can be high contrast between the buttons and the screen

1. **Assigned to:** Kunal
2. **Time Estimate:** 0.5 hr, 1 pt
3. **Time Spent:** 1 hr



-
4. **Status:** Completed

As a blind user (stretch goal), I want an inbuilt text-to-speech reader so that I can understand what is on the website and to ensure I can navigate the page properly (5 tasks) [J]

J1: Research and Select a Text-to-Speech (TTS) Technology

1. **Assigned to:** Aditya
2. **Time Estimate:** 2 hr, 1 pt
3. **Time Spent:** 7 hrs
4. **Status:** Completed

J2: Design button for the TTS Feature

1. **Assigned to:** Aditya
2. **Time Estimate:** 2 hr, 2 pt
3. **Time Spent:** 1 hr
4. **Status:** Completed

J3: Implement the TTS Feature

1. **Assigned to:** Aditya
2. **Time Estimate:** 4hrs, 3pt
3. **Time Spent:** 9 hrs
4. **Status:** Completed

J4: Test the TTS Feature with Blind Users

1. **Assigned to:** Aditya
2. **Time Estimate:** 4 hr, 4 pt
3. **Time Spent:** 3 hrs
4. **Status:** Completed

J5: Refine and Optimize the TTS Feature

1. **Assigned to:** Aditya
2. **Time Estimate:** 3 hr, 3 pt
3. **Time Spent:** 2 hrs
4. **Status:** Completed

As a developer, I would like all of my code to be tested (2 tasks) [N]

N1: Write unit tests for back-end functionality.

1. **Assigned to:** Kelvin
2. **Time Estimate:** 3.5 hr, 5 pt
3. **Time Spent:** 5 hrs
4. **Status:** Completed



N2: Write unit tests for front-end functionality

1. **Assigned to:** Isaac
2. **Time Estimate:** 4.5 hr, 5 pt
3. **Time Spent:** 9 hr
4. **Status:** Completed

As a user who orders items, I want to be able to customize the ingredients for menu items I order (2 tasks) [K]

K1: Create back-end functionality to allow a menu item to use different ingredients than the default.

1. **Assigned to:** Karan
2. **Time Estimate:** 3.5 hr, 4 pt
3. **Time Spent:** 2 hr
4. **Status:** Completed

K2: Create front-end functionality to allow a user to customize menu items when placing an order

1. **Assigned to:** Karan
2. **Time Estimate:** 4.5 hr, 5 pt
3. **Time Spent:** 8 hr
4. **Status:** Completed

As an administrator, I want to be able to have access to user management tools. (4 tasks) [M]

M1: Create front and back end functionality to create new users.

1. **Assigned to:** Wyatt
2. **Time Estimate:** 3 hr, 3 pt
3. **Time Spent:**
4. **Status:** Completed

M2: Create front and back end functionality to view current users.

1. **Assigned to:** Wyatt
2. **Time Estimate:** 2 hr, 2 pt
3. **Time Spent:**
4. **Status:** Completed

M3: Create front and back end functionality to update attributes corresponding to current users.

1. **Assigned to:** Wyatt
2. **Time Estimate:** 4 hr, 4 pt
3. **Time Spent:**
4. **Status:** Completed



M4: Create front and back end functionality to remove a user from the system.

1. **Assigned to:** Wyatt
2. **Time Estimate:** 3 hr, 3 pt
3. **Time Spent:**
4. **Status:** Completed

Tasks Done not Reflected in the Sprint backlog:

1. Karan
 - a. Implemented recommender based on the item ordered in the customer view
2. Kelvin
 - a. Hot or cold recommendations based on the weather
 - b. Credit card modal for customer side, as well as notification when transaction went through
 - c. Real-time Order Display added for customers to see when their transaction is ready to be picked up
3. Isaac
 - a. Implemented the functionality of seasonal items disappearing from the menu board
 - b. Created the About page
 - c. Redesigned the inventory and menu item pages based on updated database tables for functionality and better interface
4. Kunal
 - a. Added tooltips for navigation
 - b. Rewrote components (incl. carousel) in order to pass WCAG score
 - c. Deployment
5. Aditya
 - a. Revamping the menu board styling, including new overall grid style and adding images for aesthetics of the the customer
 - b. Changing the implementation of menu board from three new tabs for the boards to a slideshow implementation
 - c. Creating the magnification feature
6. Wyatt
 - a. Refactoring of Google Oauth, session management and role-based access control
 - b. Added filtering by menu item to “What Sells Together” report

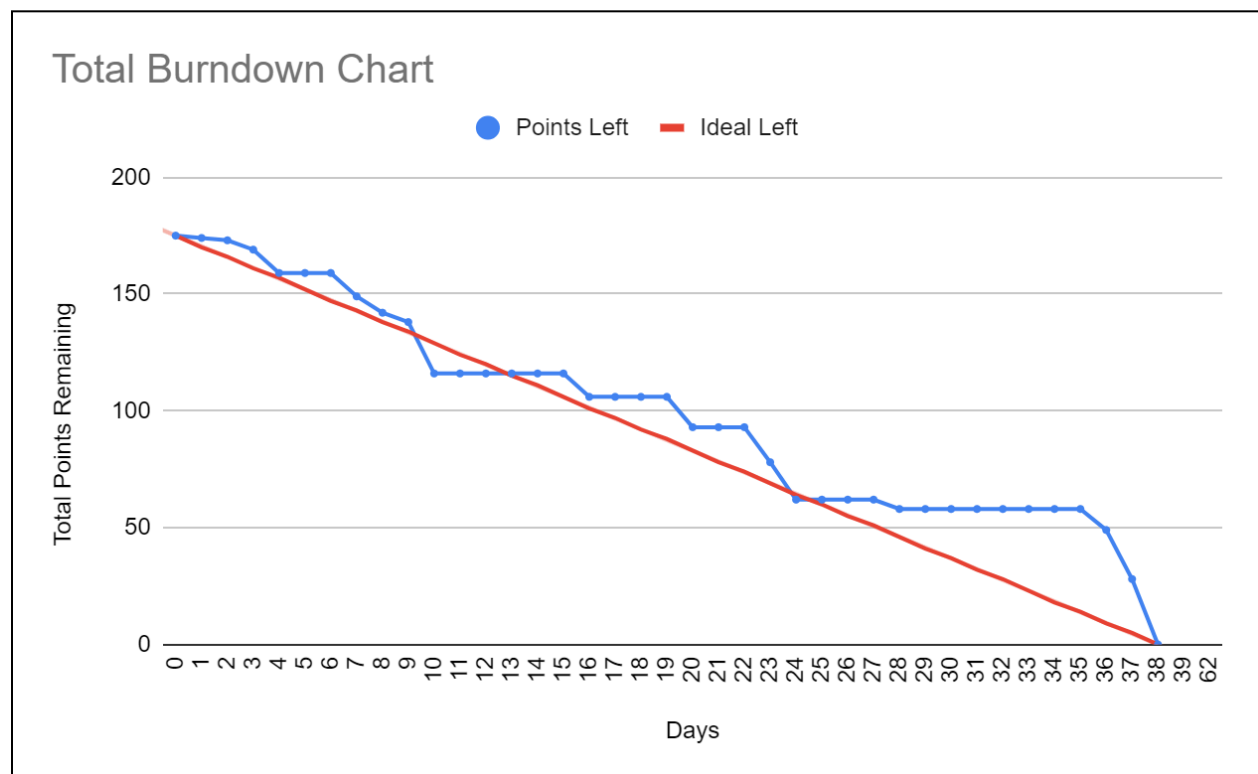
Summary Table:

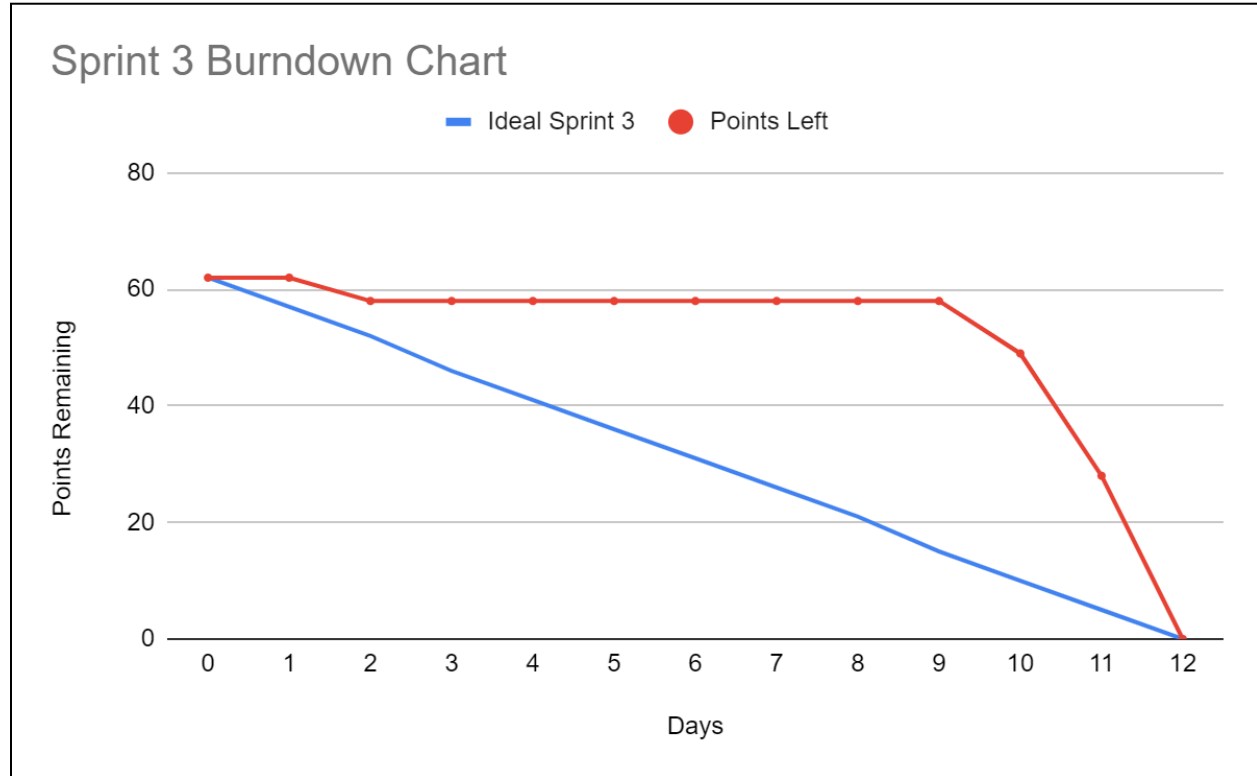
	Sprint 1 (pts)	Sprint 2 (pts)	Sprint 3 (pts)
Isaac Ambro	24	14	5
Wyatt Cade	21	11	12



Kelvin Su	18	15	9
Aditya Biradar	13	5	13
Karan Bhalla	20	9	9
Kunal Jain	15	13	15

Burn-down Charts







Appendix 1: SCRUM Meeting Agendas and Minutes

SCRUM Meeting 1 for Sprint 3

Prepared by: Isaac Ambro

Meeting Date: 4/21/2024

Meeting Attendees

1. Aditya Biradar
2. Isaac Ambro
3. Karan Bhalla
4. Kelvin Su
5. Kunal Jain
6. Wyatt Cade

Meeting Agenda Items

- Conduct a "fist of five" vote on the question "How likely are we to achieve the Sprint Goal?"
- Review the Sprint 2 backlog
- Obtain a status report of what task each team member was working on
- Assess if tasks need to be added or reassigned

Status Update Since Last Meeting

Accomplishments:

- Notifications
- Cart touch up
- Payments
- Nutrition 4/18/2024

Tasks Completed:

Task Description	Assigned to	Completed? (yes/no)
Notifications	Kelvin	Yes
Cart Touch Up	Kelvin	Yes
Payment Options	Kelvin	Yes
Nutrition	Kelvin	Yes



Before The Next Meeting

Plans:

- Start creating a dedicated sign-in page
- Fix authorization
- User Management

Task Assignments:

Task Description	Assigned to
Start creating a dedicated sign-in page	Wyatt
Fix authorization	Wyatt
User Management	Wyatt

Minutes from Previous Meeting

The previous meeting began with a warm welcome and an overview of Sprint 2 progress, followed by defining the Sprint 3 goal: completing the remaining tasks from Sprint 2, integrating user management, and finalizing project components. The team reviewed the Sprint 3 backlog, selected tasks, and assigned them based on expertise. Criteria for task completion were clarified, and a Q&A session provided clarification on Sprint 3 planning. Action items for Sprint 3 were summarized, and the meeting adjourned at 5:13 PM.



SCRUM Meeting 2 for Sprint 3

Prepared by: Isaac Ambro

Meeting Date: 4/25/2024

Meeting Attendees

1. Aditya Biradar
2. Isaac Ambro
3. Karan Bhalla
4. Kelvin Su
5. Kunal Jain
6. Wyatt Cade

Meeting Agenda Items

- Conduct a "fist of five" vote on the question "How likely are we to achieve the Sprint Goal?"
- Review the Sprint 2 backlog
- Obtain a status report of what task each team member was working on
- Assess if tasks need to be added or reassigned

Status Update Since Last Meeting

Accomplishments:

- Started on user management
- Started on menu item customization
- Removed In line css
- Working on consistent animations
- Started on order status display page

Tasks Completed:

Task Description	Assigned to	Completed? (yes/no)
Started on user management	Wyatt	No
Started on menu item customization	Karan	No
Removed In line css	Kunal	Yes
Working on consistent animations	Kunal	No
Started on order status display page	Kelvin	No



Before The Next Meeting

Plans:

- Order status page
- Finishing menu item customization
- Finishing user management
- Finish Menu Board
- Text to speech
- Combo suggestions
- Standardize Colors
- Make items responsive
- Testing
- Seasonal Items disappear
- About page
- Menu Item page update corresponding to modified tables (give placeholder image maybe)

Task Assignments:

Task Description	Assigned to
Order status page	Kelvin
Finishing menu item customization	Karan
Finishing user management	Wyatt
Finish Menu Board	Aditya
Text to speech	Aditya
Combo suggestions	Karan
Standardize Colors	Kunal
Make items responsive	Kunal
Testing	Isaac
Seasonal Items disappear	Isaac
About page	Isaac
Menu Item page update corresponding to modified tables (give placeholder image maybe)	Isaac



Minutes from Previous Meeting

In the previous meeting, the team acknowledged the successful completion of User Story F from the Sprint Backlog. There was a collective commitment among attendees to diligently continue with their respective assigned tasks. Fortunately, no blockers were reported during the discussion, indicating a smooth and unhindered progression for the team as they navigated through Sprint 3



SCRUM Meeting 3 for Sprint 3

Prepared by: Isaac Ambro

Meeting Date: 4/27/2024

Meeting Attendees

1. Aditya Biradar
2. Isaac Ambro
3. Karan Bhalla
4. Kelvin Su
5. Kunal Jain
6. Wyatt Cade

Meeting Agenda Items

- Conduct a "fist of five" vote on the question "How likely are we to achieve the Sprint Goal?"
- Review the Sprint 2 backlog
- Obtain a status report of what task each team member was working on
- Assess if tasks need to be added or reassigned

Status Update Since Last Meeting

Accomplishments:

- Aria labels added to customer and employee pages (needs to be tested)
- Changed cart up a bit (shows customized items)
- Added email to the database
- Working on middleware
- Can view add, update, and delete users from the database
- Testing
- About page
- Order status page
- Footer
- Updated Carousel
- Error handling on the cart

Tasks Completed:

Task Description	Assigned to	Completed? (yes/no)
Aria labels added to customer and employee pages	Aditya	Yes



Changed cart up a bit (shows customized items)	Karan	Yes
Added email to the database	Wyatt	Yes
Working on middleware	Wyatt	No
Can view add, update, and delete users from the database	Wyatt	Yes
Testing	Isaac	No
About page	Isaac	Yes
Order status page	Kelvin	Yes
Footer	Kelvin	Yes
Updated Carousel	Kelvin	Yes
Error handling on the cart	Kelvin	Yes

Before The Next Meeting

Plans:

- Finish Aria labels and test those
- Finish menu board
- Finish menu item customization
- Inventory Check for that
- Recommending items
- Finish middleware (versatile in access levels)
- Fixing up user management (add emails)
- See about deployment
- Remove code related to old authentication
- Seasonal items to disappear
- Updating the menu item page for adding and updating with modified database schema
- Continue testing if necessary
- Backend testing
- Continue to improve the website in various areas

Task Assignments:

Task Description	Assigned to
Finish Aria labels and test those	Aditya



Finish menu board	Aditya
Finish menu item customization	Karan
Inventory check for customization	Karan
Recommending items	Karan
Finish middleware (versatile in access levels)	Wyatt
Fixing up user management (add emails)	Wyatt
See about deployment	Wyatt
Remove code related to old authentication	Wyatt
Seasonal items disappear	Isaac
Updating the menu item page for adding and updating with modified database	Isaac
Continue testing if necessary	Isaac
Backend testing	Kelvin
Continue to improve the website in various areas	All

Minutes from Previous Meeting

In the preceding meeting held on Discord, the team noted significant progress, with User Management and Menu Item Customization each at 50% completion from the Sprint Backlog. Attendees unanimously agreed to persist with their current tasks. Additionally, the decision was made to include an Order Status page as an additional task. Encouragingly, no blockers were encountered or raised, allowing for a seamless continuation of work toward Sprint 3 objectives.