



Sprint 2 Written Materials

Digital Dawg Pack



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Retrospective Summary

Overall we had a productive sprint 2, we are on track based on our burndown chart. The implementation of pair programming for our group members is working out well, it is keeping us on track and helping us progress at a faster rate than if we were doing this alone. Through implementation, we have decided not to use angular for this project and we will use other tools that are more suited for Spring Boot to complete the project. The development of all of our pages is going smoothly for the most part. We did have some setbacks this sprint though. They mostly boiled down to a steep learning curve for learning how to use Thymeleaf, a tool used by Spring Boot, and learning HTMX. Once we learned how to use the tools properly, things started moving faster, but it was slow initially. Having the user send data back to the backend was a large challenge that we had



to overcome, along with making most of the pages dynamic based on the products. By far the biggest setback we had was merging all the branches we made together. We had to restructure how the files were set up, and this caused a lot of merging conflicts. Merging 4 branches into the main caused some features to break, but we were able to get them functional that night. We met most of our backlog goals, with having the functionality of all pages, but we did not reach the full goal of having all functionality for all pages. We were missing small features, but overall we met our goal. The main reason we were partially behind was because of a lack of time. Multiple of our team members had obligations over the weekend meaning there was not much work done on Friday and Saturday.

GitHub Release Link

[Github Release v2.0](#)

Product Backlog

Time Estimates Range from (1-5), where 1 is “not very long” and 5 is “intensive work needed”

Priorities range from (LOW, MED, HIGH)

Setting up Development Environment

This set of tasks are dependent on each developer having our frameworks setup along with general knowledge of how to start the Web Server on their own

- 1. Installing Angularjs and Spring Boot (2) **HIGH**
 - Status: Completed
- 2. Sketch initial UI (1) **MED**
 - Status: Completed
- 3. Create a basic UI not including all aspects (3) **HIGH**
 - Status: Completed
- 4. Incorporate 1 functionality of our existing java backend to the front end (1) **LOW**
 - Status: Completed
- 5. Deploy web app to server (2) **HIGH**
 - Status: Completed
- 6. All members on team can run the web app (4) **HIGH**
 - Status: Completed



Create Hosted SQL Server on AWS

This set of tasks is dependent on if the postgres login works. Once in, updating the database does not depend on anything else

- 7. Migrate database content into new database (3) **HIGH**
 - Status: Completed
- 8. Update database schema (2) **HIGH**
 - Status: Completed
- 9. Deploy database to web server and ensure database is working properly (3) **HIGH**
 - Status: Completed

Development of Menu Board Page

All Tasks Dependent on creation of Database and deployment of Web Server

- 10. Create eye catching design for listing all menu items (4) **HIGH**
 - Status: In Progress
- 11. Display menu in an easy to read and engaging way (2) **MED**
 - Status: Completed
- 12. Implement dynamic designs that show changing pictures (4) **HIGH**
 - Status: In Progress
- 13. Integrate with database (2) **HIGH**
 - Status: Completed
- 14. Make customizable in response to additions to menu (4) **HIGH**
 - Status: Completed
- 15. Integrate keyboard navigation through the page (3) **MED**
 - Status: In Progress

Development of Customer Page

All Tasks Dependent on creation of Database and deployment of Web Server

- 16. Create an ordering interface that is simple to navigate for the general public (4) **HIGH**
 - Status: Completed
- 17. Make the design visually appealing for a casual user (1) **LOW**
 - Status: Completed
- 18. Make use of images for menu items (2) **MED**
 - Status: In Progress
- 19. Implement customization for each item in the order (3) **MED**
 - Status: In Progress
- 20. Integrate with database (2) **HIGH**
 - Status: Completed
- 21. Include simple and obvious instructions for use (1) **LOW**
 - Status: In Progress
- 22. Integrate accessibility features (5) **HIGH**



- Status: In Progress
- 23. Include dynamic updating of the page (3) **HIGH**
 - Status: Completed

Development of Cashier Page

All Tasks Dependent on creation of Database and deployment of Web Server

- 24. Layout buttons in a fast and efficient manner to respond to customers order (3) **HIGH**
 - Status: In Progress
- 25. Minimize number of different pages involved (1) **LOW**
 - Status: In Progress
- 26. Implement updating order list to track current order and total pricing (1) **LOW**
 - Status: In Progress
- 27. Use dynamic buttons for each item to add and remove ingredients to suit the customers specifications (3) **HIGH**
 - Status: In Progress
- 28. Implement logic to create buttons for special items that are dynamically added (3) **LOW**
 - Status: In Progress
- 29. Integrate with the database (2) **HIGH**
 - Status: Completed
- 30. Implement taking items off the current order (1) **MED**
 - Status: In Progress
- 31. Implement a cancel order system (1) **LOW**
 - Status: Completed

Development of Manager Page

All Tasks Dependent on creation of Database and deployment of Web Server

- 32. Layout buttons in a fast and efficient manner to respond to customers order (1) **HIGH**
 - Status: In Progress
- 33. Minimize number of different pages involved (1) **LOW**
 - Status: Completed
- 34. Implement updating order list to track current order and total pricing (1) **MED**
 - Status: Completed
- 35. Use dynamic buttons for each item to add and remove ingredients to suit the customers specifications (1) **HIGH**
 - Status: In Progress
- 36. Allow managers to add new menu items and specify their limited time frame if seasonal (2) **MED**
 - Status: Completed
- 37. Implement logic to update page with new buttons for special items that are dynamically added (2) **HIGH**
 - Status: Completed



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- 38. Implement trend charts based on time interval (2) **MED**
 - Status: In Progress
 - 39. Integrate with the database (2) **HIGH**
 - Status: Completed

API Integration into Web Page

All tasks are dependent on each of their respective pages being completed. Tasks can be done in any order, but if the page is not completed, then API integration could cause issues

- 40. Learn architecture of Google Authentication API (api keys, libraries/dependencies in spring-boot) (4) **HIGH**
 1. Decide whether we need to request from the backend to do more business logic or request straight from the front end
 2. Create either front end logic or front end + back end logic.
- 41. Learn structure of openweather API (api keys, libraries/dependencies in spring-boot) (4) **HIGH**
 - Repeat steps 1, 2 from above
- 42. Learn structure of google translate API (api keys, libraries/dependencies in spring-boot) (4) **HIGH**
 - Repeat steps 1, 2 from above
- 43. Implement Authentication Login Page (2) **HIGH**
 - Status: Not Started
- 44. Integrate Authentication into Manager Page (similar to task 44) (1) **MED**
 - Status: Not Started
- 45. Implement weather module into menu page (2) **MED**
 - Status: Not Started
- 46. Integrate dynamic naming of items based on current weather (3) **HIGH**
 - Status: Not Started
- 47. Implement translation API into Menu Page (3) **HIGH**
 - Status: Not Started
- 48. Implement translation API into Customer Page (2) **HIGH**
 - Status: Not Started

Web Accessibility Tasks

All tasks are dependent on each of their respective pages being completed. Once each page is done, adding accessibility is along the lines of updating format, color, size, etc.

- 49. Ensure all non-text content on the web app has a text alternative (2) **HIGH**
 - Status: Not Started
- 50. Ensure that the content is adaptable (presented in different ways without losing information) (3) **HIGH**
 - Status: Not Started



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- 51. Ensuring that content is easier for users to see and hear. Separating content from background. (3) **MED**
 - Status: Not Started
 - 52. Ensuring implementation features for Carol (3) **HIGH**
 - Status: Not Started
 - 53. Ensuring implementation features for Maria. (3) **HIGH**
 - Status: Not Started
 - 54. Ensuring implementation features for Lea. (3) **HIGH**
 - Status: Not Started
 - 55. Ensuring keyboard accessibility. (3) **HIGH**
 - Status: Not Started
 - 56. Ensuring users enough time to read and use content (1) **LOW**
 - Status: Not Started
 - 57. Ensuring minimization of seizure and physical reaction provoking responses (1) **LOW**
 - Status: Not Started
 - 58. Ensuring Navigation accessibility (3) **HIGH**
 - Status: Not Started
 - 59. Ensuring multiple input modalities (3) **LOW**
 - Status: Not Started
 - 60. Ensuring readability and clear/understandable text. (2) **MED**
 - Status: Not Started
 - 61. Ensuring predictability (2) **LOW**
 - Status: Not Started
 - 62. Input assistance (help users avoid and correct mistakes) (2) **LOW**
 - Status: Not Started



Sprint Backlog

Development of Menu Board Page

Create an eye catching design for listing all menu items (4) HIGH

Time Estimate: 4.

Assigned to: Jacob Kuruvilla

Actual Time Spent: 4. Status: Completed

Display menu in an easy to read and engaging way (2) MED

Time Estimate: 2.

Assigned to: Jacob Kuruvilla

Actual Time Spent: 2. Status: Completed

Implement dynamic designs that show changing pictures (4) HIGH

Time Estimate: 4.

Assigned to: Jacob Kuruvilla

Actual Time Spent: 3. Status: In Progress

Integrate with database (2) HIGH

Time Estimate: 2.

Assigned to: Jacob Kuruvilla

Actual Time Spent: 2.

Status: Completed

Make customizable in response to additions to menu (4) HIGH

Time Estimate: 4.

Assigned to: Jacob Kuruvilla

Actual Time Spent: 3.

Status: In Progress

Development of Customer Page

Create an ordering interface that is simple to navigate for the general public (4) HIGH

Time Estimate: 4.

Assigned to: Ethan Woods and Hayden O'Keefe

Actual Time Spent: 4.

Status: Completed



Make the design visually appealing for a casual user (1) LOW

Time Estimate: 1.

Assigned to: Ethan Woods and Hayden O'Keefe

Actual Time Spent: 1.

Status: Completed

Make use of images for menu items (2) MED

Time Estimate: 2.

Assigned to: Ethan Woods and Hayden O'Keefe

Actual Time Spent: 1.5

Status: In Progress

Implement customization for each item in the order (3) MED

Time Estimate: 3.

Assigned to: Ethan Woods and Hayden O'Keefe

Actual Time Spent: 1.

Status: In Progress

Integrate with database (2) HIGH

Time Estimate: 2.

Assigned to: Ethan Woods and Hayden O'Keefe

Actual Time Spent: 2.

Status: Completed

Include dynamic updating of the page (3) HIGH

Time Estimate: 3.

Assigned to: Ethan Woods and Hayden O'Keefe

Actual Time Spent: 3.

Status: Completed

Development of Cashier Page

Layout buttons in a fast and efficient manner to respond to customers order (3) HIGH

Time Estimate: 3.

Assigned to: Kaghan Odom

Actual Time Spent: 3.

Status: Completed



Minimize number of different pages involved (1) LOW

Time Estimate: 1.

Assigned to: Kaghan Odom

Actual Time Spent: .5

Status: In Progress

Implement updating order list to track current order and total pricing (1) LOW

Time Estimate: 1.

Assigned to: Kaghan Odom

Actual Time Spent: 1.

Status: Completed

Use dynamic buttons for each item to add and remove ingredients to suit the customers specifications (3) HIGH

Time Estimate: 3.

Assigned to: Kaghan Odom

Actual Time Spent: 2.

Status: In Progress

Implement logic to create buttons for special items that are dynamically added (3) LOW

Time Estimate: 3.

Assigned to: Kaghan Odom

Actual Time Spent: 2.

Status: In Progress

Integrate with the database (2) HIGH

Time Estimate: 2.

Assigned to: Kaghan Odom

Actual Time Spent: 2.

Status: Completed

Implement taking items off the current order (1) MED

Time Estimate: 1.

Assigned to: Kaghan Odom

Actual Time Spent: .5

Status: In Progress



Implement a cancel order system (1) LOW

Time Estimate: 1.

Assigned to: Kaghan Odom

Actual Time Spent: .5

Status: In Progress

Development of Manager Page

Layout buttons in a fast and efficient manner to respond to customers order (1) HIGH

Time Estimate: 1.

Assigned to: Chance Hughes and Quinn Bromley

Actual Time Spent: 1.

Status: Completed

Minimize number of different pages involved (1) LOW

Time Estimate: 1.

Assigned to: Chance Hughes and Quinn Bromley

Actual Time Spent: .5

Status: In Progress

Implement updating order list to track current order and total pricing (1) MED

Time Estimate: 1.

Assigned to: Chance Hughes and Quinn Bromley

Actual Time Spent: 1

Status: Completed

Use dynamic buttons for each item to add and remove ingredients to suit the customers specifications (1) HIGH

Time Estimate: 1.

Assigned to: Chance Hughes and Quinn Bromley

Actual Time Spent: 1.

Status: Completed

Allow managers to add new menu items and specify their limited time frame if seasonal (2) MED

Time Estimate: 2.

Assigned to: Chance Hughes and Quinn Bromley

Actual Time Spent: 2.

Status: Completed



Implement logic to update pages with new buttons for special items that are dynamically added (2)
HIGH

Time Estimate: 2.

Assigned to: Chance Hughes and Quinn Bromley

Actual Time Spent: 2.

Status: Completed

Implement trend charts based on time interval (2) MED

Time Estimate: 2.

Assigned to: Chance Hughes and Quinn Bromley

Actual Time Spent: .5

Status: In Progress

Integrate with the database (2) HIGH

Time Estimate: 2.

Assigned to: Chance Hughes and Quinn Bromley

Actual Time Spent: 2.

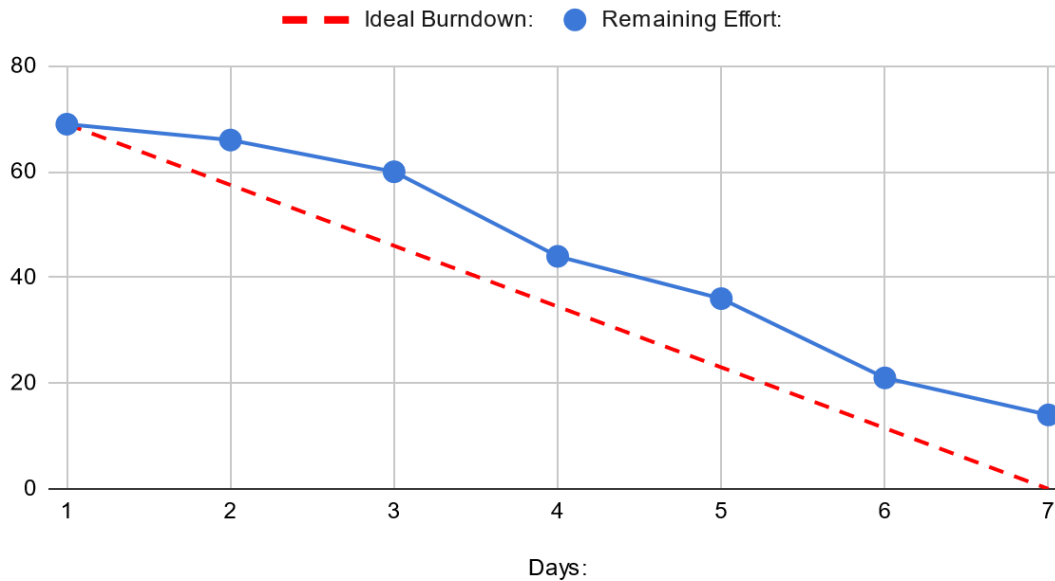
Status: Completed

Name	# Tasks Completed for Sprint 1	# Tasks Completed for Sprint 2	# Tasks Completed for Sprint 3
Ethan Woods	2 tasks (8 time estimate)	6 tasks (12.5 time estimate)	
Hayden O'Keefe	4 tasks (10 time estimate)	6 tasks (12.5 time estimate)	
Kaghan Odom	2 tasks (7 time estimate)	8 tasks (11.5 time estimate)	
Chance Hughes	2 tasks (8 time estimate)	8 tasks (10.5 time estimate)	
Quinn Bromley	2 tasks (8 time estimate)	8 tasks (10.5 time estimate)	
Jacob Kuruvilla	2 tasks (7 time estimate)	5 tasks (15 time estimate)	

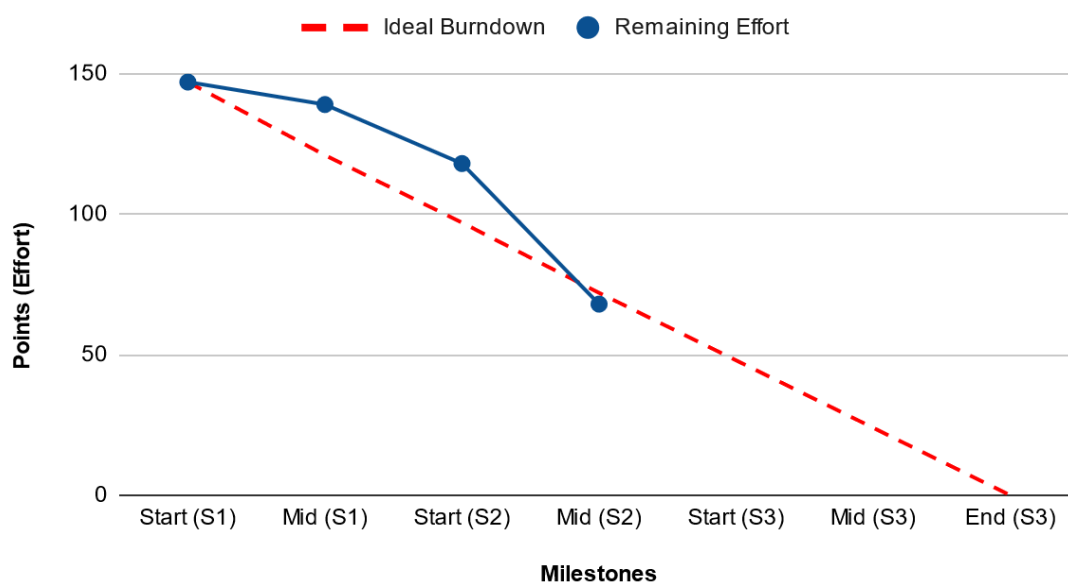


Burn-down Charts

Sprint 2 Burn-down Chart



Product Burn-down Chart





Next Sprint's SCRUM Meeting Schedule

Work Schedule

Friday 4/19/24

Sprint 3 Intro Meeting

Time TBD;

Monday 4/22/24

Scrum Meeting #1

8:00-8:50 AM; Lab

8:55-9:10 AM; Stand-up Meeting

Tuesday 4/23/24

8:00-9:15 AM; Class

7:45-10:00 PM; Group Work Session (Possible time change)

Wednesday 4/24/24

Scrum Meeting #3

8:00-8:50 AM; Lab

8:55-9:10 AM; Stand-up Meeting

Thursday 4/25/24

8:00-9:15 AM; Class

7:30-10:00 PM; Group/Partner Work Session (Possible Time change)

Sunday 4/14/24

Last Meeting Before Sprint 3 MVP

Work Session (Time TBD)

- Powerpoint creation and design for product showcase



Appendix 1: SCRUM Meeting Agendas and Minutes

SCRUM Meeting 1 for Project 3 Sprint 2

Prepared by: Ethan Woods

Meeting Date: 4/10/24

Meeting Attendees

1. Ethan Woods
2. Hayden O'Keefe
3. Quinn Bromley
4. Kaghan Odom
5. Chance Hughes
6. Jacob Kuruvilla

Meeting Agenda Items

- What is every member's outlook on completing their tasks/sprint goal? (26/30)
- What tasks is every member planning to complete during this Sprint?

Status Update Since Last Meeting

Accomplishments:

- Successfully merged our first MVP to local cloud hosting
- Every member has learned how to interact with the database using the framework chosen
- Baseline of every page has been completed

Tasks Completed:

Task Description	Assigned to	Completed? (yes/no)
Merge all branches with main with features used in MVP	All	yes
Ensure web server deployment is up and deployed	All	yes
Began Connected backend to our current pages for deployment	All	<u>yes</u>



Before The Next Meeting

Plans:

- Every member continue working on their respective pages and continue research
- Work to implement features and merge into main as they are completed

Task Assignments:

Task Description	Assigned to
Finish design on menu and begin api integration	Jacob Kuruvilla
Work on customer page to begin laying the foundation for our page	Hayden O'Keefe Ethan Woods
Create manager gui and layout. begin integrated functions into manager pages. See what we can recycle from Project 2 and put into use	Quinn Bromley Chance Hughes
Integrate cashier page to be able to place orders	Kaghan Odom

Minutes from Previous Meeting

Our last meeting was our deployment and retrospective meeting. The meeting began by each member communicating what tasks they worked on during the previous Sprint and completed. Then, each member took turns on merging their branches that were worked on. We all helped to resolve merge conflicts. We began discussing what the goals were during Sprint 2. Demo was the next morning.



SCRUM Meeting 2 for Project 3 Sprint 2

Prepared by: Ethan Woods

Meeting Date: 4/10/24

Meeting Attendees

7. Ethan Woods
8. Hayden O'Keefe
9. Quinn Bromley
10. Kaghan Odom
11. Chance Hughes
12. Jacob Kuruvilla

Meeting Agenda Items

- Take another vote on how we are all feeling about achieving our sprint goal (22/30)
- Discuss items we have worked on since last meeting and communicate work that needs to be done still

Status Update Since Last Meeting

Accomplishments:

- Inventory and Products table have been accessed through API integration
- Minor schema changes to the database to allow for better data management
- Created a basic customer checkout page with local storage

Tasks Completed:

Task Description	Assigned to	Completed? (yes/no)
Finish design on menu and begin api integration	Jacob Kuruvilla	yes
Work on customer page to begin laying the foundation for our page	Hayden O'Keefe Ethan Woods	yes
Create manager gui and layout. begin integrated functions into manager pages. See what we can recycle from Project 2 and put into use	Quinn Bromley Chance Hughes	yes
Integrate cashier page to be able to place orders	Kaghan Odom	partially (no)



Before The Next Meeting

Plans:

- Finish working on implementation features heading into the end of Sprint 2
- Add dynamic updating to our pages using API integration into the database
- Continue merging features into the current main

Task Assignments:

Task Description	Assigned to
Continue working on menu board and integrate into main when done	Jacob Kuruvilla
Work on frontend and backend creation of Customer ordering page	Hayden O'Keefe Ethan Woods
Work on frontend integration of the backend features created for the Manager page. Trend graphs after that	Quinn Bromley Chance Hughes
Continue working on the backend for the customer page layout. Plan to edit items in the order summary	Kaghan Odom

Minutes from Previous Meeting

During our first SCRUM meeting during Sprint 2, we initially laid out our goals and took a vote on how likely we were to achieve our Sprint 2 goal. Every team member then took a second to talk about what they were planning to accomplish during the Sprint and before the next meeting. We concluded with a discussion on improvements we could make as a team, with the main factor being communication. Almost every member of the team said that communication was minimal during the intensive portions of Sprint 1, and that we should increase it going forward. We concluded that this was one of our biggest roadblocks during Sprint 1, other than having to learn the framework.



SCRUM Meeting 3 for Project 3 Sprint 2

Prepared by: Ethan Woods

Meeting Date: 4/14/24

Meeting Attendees

13. Ethan Woods
14. Hayden O'Keefe
15. Quinn Bromley
16. Kaghan Odom
17. Chance Hughes
18. Jacob Kuruvilla

Meeting Agenda Items

- Merge all work done during Sprint 2 in preparation for the Demo
- Discuss work done during the Sprint and reflect

Status Update Since Last Meeting

Accomplishments:

- All pages have basic functionality in preparation for the MVP
- Backend integration is incorporated on each page

Tasks Completed:

Task Description	Assigned to	Completed? (yes/no)
Continue working on menu board and integrate into main when done	Jacob Kuruvilla	yes
Work on frontend and backend creation of Customer ordering page	Hayden O'Keefe Ethan Woods	yes
Work on frontend integration of the backend features created for the Manager page. Trend graphs after that	Quinn Bromley Chance Hughes	yes
Continue working on the backend for the customer page layout. Plan to edit items in the order summary	Kaghan Odom	yes



Before The Next Meeting

Plans:

- Continue implementation of backend features and continue implementing basic functions
- Begin working on accessibility features

Task Assignments:

Task Description	Assigned to
Finish implementing functionality features into the main pages	all
Begin thinking about accessibility features that can be implemented	all

Minutes from Previous Meeting

During our SCRUM meeting #2, we once again took a vote on if we think we can accomplish our Sprint 2 goal. Our total voting score actually went down in confidence because people were feeling the weight of the tasks they needed to complete. Progress was going steady though, as each member was doing work almost every day on the project. After taking the vote, each team member gave an update on how they are doing and what they plan to complete. Next was a discussion about work going forward in the week. Many members were busy with family/ring weekends, so work would be somewhat minimal. We planned to work around it and meet Sunday to prepare our final touches before merging and the demo, which was on Monday morning.