



## Team 4 - Sprint 2 Planning Document

*Alex Hardewig, Zach Johnson, Benjamin Kahlert, Eric Vondrak, David Wood, Ian Zanger*

### Sprint Overview

During this sprint, we hope to have our "Today View" working as well as adding special features only for the managers of projects. The Today View is an essential feature of our project as it displays the tasks the user plans to complete each day. The user should be able to drag and drop tasks from their projects into a personalized daily schedule that they can update within their dashboard view. We will also add manager specific abilities to edit their projects like changing priority levels and assigning tasks. As well as manager abilities, we will add notifications and commenting on tasks for users.

**Scrum master:** Alex Hardewig

**Meeting times:** 4:30 PM Sundays, 11:30 AM Fridays

**Risks and challenges:** The main challenge we face this sprint is creating the Today View in the user dashboard. The main GUI for the Today View will display the tasks in chronological order along with colors for each different project and size for hours required to complete. The Today View will also incorporate a drag and drop interface as users will be able to drag tasks from their project dashboard and add it to the Today View. We are taking a risk by combining a GUI that constantly needs to be updated with a new and fairly complex interface. It is critical to have this feature functioning as it is a main selling point of our project and is essential for user stories later on.

## Sprint Overview

### User Story #1

As a user, I would like to see the estimated time left in my day.

#	Description	Time	Owner
1	Build GUI display for time left	4	Eric
2	Use time estimated for each task to calculate time left in user day	3	Eric
3	Sync time for when tasks are completed	4	Eric
4	Display time to user	2	Eric
5	Test that the correct number of hours left in the day is displayed for a user	1	Eric

### Acceptance Criteria

- Given a user has dragged tasks to their 'Today' view, if the view is visible, an estimated time left in their workday will display.
- Given that a user drags a new task into the view, if the view is visible, the estimated time will decrease accordingly.
- Given that a user removes a task from the view, if the view is visible, the estimated time will increase accordingly.
- Given that a user completes a task before its allotted time finishes, the estimated time will increase.

### User Story #2

As a user, I would like to comment on tasks.

#	Description	Time	Owner
1	Create GUI for comments	2	Zach
2	Add text line and submit button for tasks	2	Eric
3	Add submitted text to commented task	4	Eric
4	Add delete button and functionality for comments	4	Eric

5	Add timestamp as well as author for each comment	2	Eric
6	Update database so other users can see comments	3	Eric
7	Test if comment is successfully added to the database associated with the proper task	1	Eric

### Acceptance Criteria

- Given that a task does not have any comments, if I expand a task, I will have a text input to add a comment.
- Given that I've typed my comment, if I press enter, my user photo, name, and comment will appear below the previous comments.
- Given that another user has the task open, if I submit my comment, it will appear on their screen.
- Given that I close the task with the comment, if I open the task again, the comment remains under that task.
- Given that I delete a comment under a task, it should disappear for other users as well.

### User Story #3

As a user, I would like the ability to edit my comments left on a task.

#	Description	Time	Owner
1	Make comment text field editable for user who wrote the comment	3	David
2	Make comment text field not editable for users who did not write the comment	2	David
3	Sync updated comment with Firebase	3	David
4	Update timestamp of the comment	2	David
5	Display error message if user deletes all of the text of comment without replacing it with other text	1	David
6	Test to make sure comments are functioning properly	1	David

### Acceptance Criteria

- Given that I have commented on a task, if I click on the comment, I can edit my words.
- Given that another user has commented on a task, if I click on the comment, I cannot edit their words.
- Given that a person edited their own comment for a task, if other users view that comment, they will see an updated comment.
- Given that a user is editing a task, if they delete all text without replacing it with any, then an error message will force them to add a least one character.
- Given that a user edits a comment, if they press enter, the comment is marked as having been edited.

### User Story #4

As a manager, I would like to view a manager-specific dashboard and updated options on each task.

#	Description	Time	Owner
1	Build manager-specific GUI elements	3	Zach
2	Make changing of project color manager-only	1	Ian
3	Make changing of project name manager-only	1	Ian
4	Write test cases for changing of project color and name	2	Alex
5	Write tests for manager-specific dashboard functionality and accessibility	2	Alex

### Acceptance Criteria

- Given that I am a manager for a project, I am presented with additional settings, such as the ability to edit the project name.
- Given that I am a manager for a project, I am able to edit the project color.
- Given that I am a manager for a project, I am able to edit the priority level of any task.
- Given that I am not a manager for a project, if I open the project, I am not able to edit project name.
- Given that I am not a manager, I am not able to edit the project color,.

### User Story #5

As a manager, I would like to assign priority levels to tasks.

#	Description	Time	Owner
1	Polish existing priority level editing (Adding more error checking, etc)	2	Ben
2	Create lock on editable item once a manager has edited it	2	Ben
3	Create a system that adds a comment to the task's log to show the priority has been edited by a manager	3	Ben
4	Write tests for editability of priority level both for managers and for users	1	Ben

### Acceptance Criteria

- Given that I am a manager, if I edit the priority level of a task, it updates for all users within the project.
- Given that I have not edited the priority level of a task, if a user tries to edit this field, they can successfully edit it.
- Given that I have edited the priority level of a task, if a user tries to edit this field, they cannot successfully edit it.
- Given that I edit the priority level of a task, if I check the task comments, I see a log stating that I did that.
- Given that anyone edits the priority level of a task, if they try to enter any sort of invalid value, the system will not let them

### User Story #6

As a manager, I would like to create projects.

#	Description	Time	Owner
1	Build GUI for project duplication	2	Zach
2	Create controller logic for starting a vanilla project with the same team (Allowing to remove others from the invite list, etc)	3	Ben
3	Create new project in Firebase, very similar to	1	Ben

	how when a user creates a project		
4	Send invite notification to those who should be in the new project	2	Ben
5	Create logic for deselecting users from teammate list to be added into the new project	3	Alex
6	Create tests to ensure projects are created properly	1	Alex

### Acceptance Criteria

- Given that I am a manager for a project, if I select that project, I am presented with the ability to duplicate the project.
- Given that I select the duplicate button, if I confirm it, I create a second project with a new name and color, but the same users with the same user privileges.
- Given that I have duplicated a project, if a user checks their notifications, they are presented with a new project notification.
- Given that a user receives a new project notification, if they do not accept it, they are not added to the project.

### User Story #7

As a manager, I would like to assign tasks to projects.

#	Description	Time	Owner
1	Create GUI for task ownership	2	Zach
2	Create logic for managers to delegate a task	2	Ben
3	Update client/database with new task ownership information	1	Ben
4	Send notification to user who task was assigned to	2	Ben
5	Clean up existing notification code (the current system in place is meant for invitations only)	3	Ben
6	Create tests for notifications and assigned users	2	Ben

### Acceptance Criteria

- Given that I am a manager for a project, if I click on a task, I am presented with the option to assign that task to anyone
- Given that I am a user, if I have been assigned a task, a notification will appear in my notification box
- Given that I am a user, if I have received a notification, it is made clear to me through a new icon in my projects bar
- Given that I am a user, if I enter my notification screen, It is made clear to me which notifications are invites and which are simple notifications

### User Story #8

As a manager, I would like to add project details that will be visible to all team members.

#	Description	Time	Owner
1	Build GUI settings screen	3	Zach
2	Add input for project details in project creation screen	2	Ian
3	Add input for managers to change project details in their settings pane	2	Ian
4	Make project details viewable by users on the project	2	David
5	Make project details viewable as part of project invite notification	1	Ian

### Acceptance Criteria

- Given that I am a manager, if I add a project description when creating a project, it is synced in the database properly.
- Given that I am a manager, when I edit the project details, the change will be synced with all users on the project.
- Given that I am a user on a project with a description, I will be able to view the description of that project.
- Given that I am not a manager, if I open a project, I am not able to edit the project details.
- Given that I am a user that was added to a project, I will be able to see the project details included in the invite notification.

### User Story #9

As a manager, I would like to invite users to join my team.

#	Description	Time	Owner
1	Build invitation GUI	2	Zach
2	Clean up existing invite code (more error checks, etc.)	2	Ben
3	Modify existing code for invitations from project creation so that users can be added after project creation	2	Ben
4	Disallow users without manager privileges from accessing this feature	1	Ian
5	Create tests to ensure invited user receives an invite	1	Ian

### Acceptance Criteria

- Given that I am a manager of a project, if I click on the settings icon, I have the option to invite others into my existing project.
- Given that I am a user, if I am invited to an existing project, I will receive a notification that allows me to join the project.
- Given that I am a user, if I accept the invitation, I will join the project as a standard user (not a manager).
- Given that I am a manager, if I enter an incorrect email address to be invited, I will be shown an error message.

### User Story #10

As a manager, I would like to make other teammates managers for my team.

#	Description	Time	Owner
1	Build teammate manager GUI	2	Zach
2	Create controller logic for making others a manager	2	Ben
3	Sync in state/database that given user is now a	2	Ben



	manager		
4	Make it so that only managers receive a 'managerial border' around their user icon in the project	1	Ben
5	Create manager-only buttons for deleting users from projects	3	Ian
6	Implement syncing of deletion of users from database	2	Ian
7	Ensure deleted users can no longer view that project	1	Ian
8	Ensure deleted users are routed back to their dashboard when they are viewing a project they were just deleted from	2	Ian
9	Write tests to make sure proper users are made managers	1	Ian

### Acceptance Criteria

- Given that I am a manager, if others are in my project, they are able to easily see so through the border surrounding my icon.
- Given that I am a manager, If I enter the project settings menu, I will be able to select a user to promote to manager status if I choose.
- Given that I am the current project owner, and that I have someone else in my project, I have the ability to give someone else the status of project owner.
- Given that I am a project owner, and there is another manager in the project, I have the ability to demote that manager to user status.

### User Story #11

As a user, I would like to add tasks to my 'Today' view.

#	Description	Time	Owner
1	Build 'Today' view GUI	9	Zach
2	Add ability to drag tasks onto 'Today' view	8	Alex
3	Change size of task based on estimated hours	2	Alex

4	Marks tasks from 'Today' view as complete when they are completed	3	Alex
5	Change color of task based on project color	2	Alex
6	Add ability to remove tasks from 'Today' view	3	Alex
7	Test that tasks can be added and deleted from the Today View and the color and sizes are updated	1	Alex

### Acceptance Criteria

- Given that the Today View is complete, when I drag a task onto the Today view, it will stick.
- Given that the Today View is complete, when I stick a task onto the Today View, it will expand in size according to its estimated time
- Given that a user is a part of multiple projects, when I drag tasks from different projects, the tasks will be outlined in different colors
- Given that a user drags a task from the today view, it will disappear from the today view, but remain in the task queue.
- Given that a task is marked complete, the task will be marked as complete in the today view as well.

### User Story #12

As a user, I would like to assign tasks to the hours of my day.

#	Description	Time	Owner
1	Refine task GUI component for 'Today' view	2	Zach
2	Code logic for dropping tasks to certain hours of the day	3	David
3	Add ability to rearrange tasks	3	David
4	Cancel drag action if the user stops dragging	1	David
5	Test if the tasks are reordered appropriate and expand to the appropriate sizes	1	David

### Acceptance Criteria

- Given that the Today view GUI is complete, if I have added tasks to my Today view, I will be able to see these tasks in the order I have dragged them.
- Given that a user is dragging a task, when they release, the task will align with their chosen time.
- Given that a user is dragging a task, when they release, the task will reposition other tasks.
- Given that a user has dragged a task to the Today view, if they view it, it is displayed in the color corresponding to the project it came from.
- Given that a user releases a dragged task before it is in the Today View, it cancels the action.

### User Story #13

As a user, I would like to be notified when it is time to start a new task.

#	Description	Time	Owner
1	Refine notification GUI	2	Zach
2	Write controller for creating a notification.	3	Alex
3	Add GUI in settings pane to change warning time	2	Ian
4	Sync settings change with database	2	Ian
5	Test that notifications appear at the correct time	1	David

### Acceptance Criteria

- Given that a user has configured the Today view, when the time to start a new task is approaching, the user will see a popup letting them know that it is time to begin a new task.
- Given that a user has set a task to notify them, if they are on the website at the time of notification, they will receive a desktop notification.
- Given that a user has opened the options panel, they will be able to change the advanced warning time for receiving a notification from 15 minutes, 30 minutes, or an hour prior.

### User Story #14

As a user, I would like to see my teammates' 'Today' view.

#	Description	Time	Owner
1	Build popup GUI	2	Zach
2	Link 'Today' component to user profile	3	David
3	Update teammate's today view so that a user can close and reopen their profile and will see the changes	2	David
4	Lock teammate's today view so other users cannot edit it	2	David
5	Test that the correct today view for a teammate can be viewed by others	1	David

### Acceptance Criteria

- Given that I am a user, when I click on a teammate's profile, I will be able to see their Today view.
- Given that a user updates his today view, when I close and reopen a teammate's profile, I will see their updated Today view.
- Given that I open a user profile, if I try to edit it, I am not able to move anything or complete any tasks.
- Given that I complete a task in a project, if it is in my or a teammate's Today view, it will be marked as complete in the view.

### User Story #15

As a user, I would like to see a log of tasks and comments.

#	Description	Time	Owner
1	Build GUI for expanding tasks to include comments and multiple tasks being expanded at once	3	Zach
2	Create logic to store tasks and comments	2	Ian
3	Ensure archived tasks can be commented on	2	Ian
4	Ensure comments are moved to archive with tasks when they are completed	2	Ian
5	Write unit testing for task and comment	2	Ian

	storage		
6	Test for issues with long lists of tasks and multiple tasks being expanded	2	Ian

### Acceptance Criteria

- Given that a user completes a task, if they open the project archive, the task will be there marked as complete and can still be expanded.
- Given that a user is in the project archive, if they open a completed task, they will see all comments and updates previously left on the task.
- Given that the user is viewing a large number of tasks at once, they will be able to scroll through them smoothly.
- Given that a user is in the project archive, if they click on the checkbox, it will be returned to the main project screen and display as incomplete, with all comments still remaining.

## Remaining Backlog (33/47 left)

- ~~1. As a user, I would like to be able to register and log into an account for Amora with Google authentication.~~
2. As a user, I would like to access Amora from desktop and mobile browsers.
- ~~3. As a user, I would like a clean, easy-to-use interface.~~
- ~~4. As a user, I would like to be able to create tasks for myself.~~
- ~~5. As a user, I would like to be able to create tasks for my team.~~
- ~~6. As a user, I would like to assign an estimated time to tasks.~~
- ~~7. As a user, I would like to set deadlines for my tasks.~~
- ~~8. As a user, I would like to mark a task as complete.~~
9. As a user, I would like to be able to compare time estimates and actual time taken for tasks.
10. As a user, I would like to customize my profile with a profile photo and description.
11. As a user, I would like to view statistics on the accuracy of my time estimates.
12. As a user, I would like to filter all project tasks by priority, type, time, and deadline.
- ~~13. As a user, I would like to view a dashboard of upcoming tasks.~~
14. As a user, I would like to see my personal suggested tasks based on due date and priority levels.
- 15. As a user, I would like to add tasks to my 'Today' view.**
- 16. As a user, I would like to assign tasks to the hours of my day.**
- 17. As a user, I would like to be notified when it is time to start a new task.**
18. As a user, I would like to set what hours of my day are public 'working hours' for teammates to view.
- 19. As a user, I would like to see the estimated time left in my day.**
- ~~20. As a user, I would like to create a team and become the manager of that team.~~
- ~~21. As a user, I would like to join teams.~~
- ~~22. As a user, I would like to view a dashboard with tasks assigned for my team.~~
- ~~23. As a user, I would like to view the profiles of my teammates.~~
- 24. As a user, I would like to see my teammates' 'Today' view.**
- 25. As a user, I would like to comment on tasks.**
- 26. As a user, I would like to see a log of tasks and comments.**
27. As a user, I would like the ability to edit the names of tasks.
- 28. As a user, I would like the ability to edit comments left on a task.**

- 29. As a user, I would like to be suggested meeting times based on everyone's schedules for the day/week.
- 30. As a manager, I would like to view a manager-specific dashboard and updated options on each task.**
- 31. As a manager, I would like to assign priority levels to tasks.**
- 32. As a manager, I would like to create projects.**
- 33. As a manager, I would like to assign tasks to projects**
- 34. As a manager, I would like to give tasks specific categories (bug fixes, new feature, etc).
- 35. As a manager, I would like to add project details that will be visible to all team members.**
- 36. As a manager, I would like to invite users to join my team.**
- 37. As a manager, I would like to make other teammates managers for my team.**
- 38. As a developer, I would like to have clean, fluid code.
- 39. As a developer, I would like to have well-documented code.
- 40. As a developer, I would like to have a list of bugs and bug fixes.
- 41. As a developer, I would like to have descriptive commit comments that accurately describe alterations.
- 42. As a user, I would like to be given a productivity score to compare my performance with co-workers, if time allows.
- 43. As a user, I would like to see events in my Google calendar for each day, if time allows.
- 44. As a user, I would like to create events for my Google calendar for each day, if time allows.
- 45. As a manager, I would like suggestions on which categories my team members appear to excel at, if time allows.
- 46. As a manager, I would like suggestions on which team member to assign a specific task to, if time allows.
- 47. As a user, I would like an entirely offline version of Amora for independent use, if time allows.