# ScheduSmart

Sprint 1 Retrospective

Team 30

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## What went well?

Overall**,** team 30 completed the vast majority of the user stories given, especially considering the amount of user stories the team had to undertake. In addition to this, team 30 put in an immense amount of effort to catch up when we were behind, showing a level of effort that was very rewarding towards the end of the sprint.

# User Stories Completed

## User Story 1

As a user, I would like to create a new account.

Completed: We finish the UI for users to input their new accounts information. Also, the ability for UI to communicate with backend and the control from backend to database is finished.

## User Story 2

As a user, I would like to securely login into and logout of my account.

Completed: The sign-in page and functionality was all completed in this sprint. UI is up to standard, there is proper error checking for the login which alerts users, and there is even a two-factor authentication system for login. Also, a logout button is functioning as expected.

## User Story 3

As a user, I would like to edit/update account information.

Completed: The account updating page and functionality was all completed in this sprint. When a user is logged in, the user interface displays all user information. Also, users are able to update their account information and the changes are reflected on the back-end.

## User Story 4

As a user, I would like to view my calendar and assignment tracker.

Completed: Upon logging in, the user can accurately view all of their information on the home page, as well as navigate to the assignment tracker with ease. It also allows the user sort assignments and view the calendar under different formats.

## User Story 5

As a user, I would like to add events to my calendar.

Completed: The user can add calendars and events to the database. This user story took much longer than expected due to a lack of planning for the database structure. However, all features except visualizing the events on the calendar are implemented and functional.

## User Story 6

As a user, I would like to add assignments to my assignment tracker

Completed: The user can add assignments (aka tasks) to the assignment tracker (aka task manager). This user story was not too difficult, the front-end functionality was up and running quite quickly, however the backend functionality took some time, especially with figuring out how to send information from the backend to the frontend. The user story is fully functional.

## User Story 7

As a user, I would like to mark completed assignments as done.

Completed: The user can check a checkbox when a task is complete and it will properly move to the completed tasks column. The task will also show the completion time

## User Story 9

As a user, I would like interactive web tours to help me be familiar with the functions of ScheduSmart.

Completed: We finish the interactive web tours so that our users can know the important functions of ScheduSmaer by going through the tutorial. Also, if users have already been familiar with our application, they can skip this tour.

## User Story 13

As a user, I would like to create different calendars that I can turn on and off individually.

Completed: The user can create a calendar with any name and it will be added to the list of calendars for that user (including updating the database). The user can then check any calendars that they like which will be used to show only certain events on the main calendar frame depending on which calendar holds an event.

## User Story 15

As a user, I would like to mark a period as “working time” for every week, including commutes, and “out-of-office” time.

Completed: The user can create add availability similar to an event. The availability is stored separately from events in the calendar in order to create a distinction between the two. The frontend was not fully implemented, as events and availability are not yet displayed on the main calendar.

## User Story 16

As a user, I would like to see the weather.

Completed: The user can see the current location and temperature on the home page. The default location is set to “West Lafayette”, but the user can change their location in the settings page.

## User Story 17

As a student, I would like to sort my assignments based on due date, creation date, class, type, etc.

Completed: The user can sort assignments on the task manager page in various types of ways. Both the completed assignments list and current assignment list can be sorted independently on one another.

## User Story 18

As a user, I would like to export my schedule to a printable format.

Completed: The exporting feature is working as expected with proper error catching on the task list page. Users can export in both PDF and CSV formats via a dropdown menu, and the resulting file will be downloaded. Formatting also includes all proper information and whether or not the assignment was completed.

# What did not go well?

In general, we did not arrange the time well and neglected some dependencies between functions, resulting in some functions being incomplete in the end. Also, for now, the appearance of our application does not look very good. Last but not least, although we did not exceed 30 minutes, our sprint review did not proceed as smoothly as desired.

## User Stories Not Completed

### User Story #8

As a user, I would like to change my time zone.

| # | Description | Estimated Time | Owner |
|---|---|---|---|
| 1 | All the assignments and works specified with time-related information should be changed to the right time based on the current time zone | 1hr | Reece |
| 2 | Design a unit test to confirm if the time zone change is reflected accordingly across the assignments list | 2hr | Bradley |

For this user story, we have a functioning interface that displays the current time in several time-zones. We did not have enough time to connect the time-zone functionality to the backend such that the user's preference is saved to update events etc.

### User Story #10

As a user, I would like to set up reminders for my events and tasks.

| # | Description | Estimated Time | Owner |
|---|---|---|---|
| 1 | Create a UI pop-up to display the information of events and task | 2hr | Gloria |
| 2 | Create a unit test to check if the reminders are set properly as expected | 1hr | Gloria |

For this user story, we have completed the frontend part. But we do not have enough time to finish the backend part since it requires waiting for the successful implementation of other functionality, we encountered a significant challenge during the building process. As expected, we will get all of the work done in the first week of the next sprint.

## User Story #11

As a user, I would like to change the whole displayed text as my native language.

| # | Description | Estimated Time | Owner |
|---|---|---|---|
| 1 | All the assignments and works specified with time-related information should be changed to the right time based on the current time zone | 1hr | Reece |
| 2 | Design a unit test to confirm if the time zone change is reflected accordingly across the assignments list | 2hr | Bradley |

For this user story, we have a functioning interface that displays the current time in several time-zones. We did not have enough time to connect the time-zone functionality to the backend such that the user's preference is saved to update events etc.

## User Story #12

As a student, I would like to find the closest available time (15-minute meeting, etc).

| # | Description | Estimated Time | Owner |
|---|---|---|---|
| 3 | Create a button allowing users to add event at that time | 3hr | Cassie |

For this user story, we have completed the frontend part, but we do not have enough time to finish the backend part since the adding events function done by another developer took lots more time than expected due to its high complexity. Based on these experiences, we believe that we should do more surveys before assigning estimated time.

## User Story #14

As a user, I would like to visualize my calendar in different formats (day, week, month, etc.)

| # | Description | Estimated Time | Owner |
|---|---|---|---|
| 1 | Create a list in settings for users to choose their preferred visualization format | 2h | Gloria |
| 2 | All the events and tasks should be displayed in the desired format | 4hr | Cassie |

For #1, we actually complete this task at the last minute. However, after other commits, it cannot work during the sprint review. Accordingly, in the next sprint, we should freeze all the development before the sprint review for at least 6 hours to prevent this from happening again.

For #2, we successfully implemented that ScheduSmart can display calendars in different formats and can also set up default formats as users desire. Nonetheless, due to some operational issues, we fail to demo to the grader. Therefore, we should also have sufficient practice of presentation before the sprint review meeting

## User Story #19

As a user, I would like to adjust what time my schedule starts and ends, essentially scheduling when I am sleeping.

| | | | |
|---|---|---|---|
| 2 | Create a user interface for users to easily adjust and save their daily schedule start and end times. | 2hr | Reece |

This user story was implemented with the same functionality as User Story #15. Ideally, this should be separate and there still needs to be a simple UI that a user can use to adjust what time their schedule starts.

# How should we improve?

Firstly, the biggest thing that team 30 can improve on is communication. While our level of communication is not as bad as it was to start, we feel as though there needs to be a strong level of discussion surrounding the project, especially when team members are waiting on other team members to finish aspects of the project. Improved communication could include, but not be limited to, more discussion in the discord, more detailed git commit messages, and more in depth discussion during weekly sprint meetings.

Secondly, we think that team members could be more careful about choosing specific user stories for sprint 2. Many of the issues we ran into in regards to sprint one came from team members waiting on other team members to finish parts of the project so that they could work on their sections. This slows down progress as team members are constantly waiting, while minor bugs and other issues slow down not only 1 team member, but also the whole team as a result of this constant waiting. By selecting tasks that are largely isolated from others, and focusing on completing those first before integrating systems, the entire project flow could be streamlined.

In addition to each user selecting tasks more carefully, we will be more selective in choosing which user stories to include in the planning document for upcoming sprints. If we spend some more time selecting which user stories and features will be included, it will allow us to ensure that we can have a constant flow of development as opposed to the previously stated issue of one bug slowing development for the whole team.

Finally, we should freeze the development at least 6 hours before the demo to ensure that no accidental errors are occurring. Besides, we should spend more time preparing for the sprint review presentation so that we can introduce our application to the grader much better.