



UHub

Sprint 1 Planning Document

Sprint Overview

This sprint, being the first, will be largely the creation of our backend and the fundamentals of which everything else will be built off of. Therefore, this sprint must involve enough cooperation and foresight to ensure that all decisions work with each others objectives, and that future objectives will be obtainable with the fundamentals we create. Our general objective for this sprint is to be achieve the most essential functionalities: to be able to make an account, log in to it, access our most important utilities (Mail, Blackboard, Calendar), and all with a usable UI.

Scrum Master:

Scott VanVleet

Meeting Plan:

Tuesday/Thursday during CS307 (3:00 - 4:15 pm), Wednesday Nights (8 pm - 12 am), Sunday Nights (8 pm - 10 pm)

Risks and Challenges:

The biggest and most important risk during this Sprint is that everything we do will have future repercussions. What we are doing here is laying the base of the whole project, meaning that everything that builds off of it will hinge on its robustness and reliability. To add to that, the first sprint will pose a great challenge just by its nature: we must teach ourselves everything that we need to be able to achieve any of our objectives. Some of us may have some background knowledge in some of the subjects, but we all must become thoroughly versed in each necessary component to be able to appropriately address the objectives and their required interactivity. Our last hurdle will be the time: all of us being full time students means that we all must find ways to be able to handle this responsibility independently and also make efforts to be able to make time to work together as a group. Organization will be key.

Current Sprint Detail

User Story #1

As a user, I would like to be able to register for a UHub Account.

| Task # | Description | Time | Owner |
|--------|--|------|---------|
| 1 | Create usernames/passwords table in Database | 2 | Yash |
| 2 | Create method of inserting new username/password into the Database | 3 | Yash |
| 3 | Create method of verifying the requested username is available on the Database | 4 | Tejaswi |
| 4 | Proper Unit Testing to ensure username and password are of correct format. | 1 | Scott |
| 5 | Create UI to input requested username/password | 3 | Scott |
| 6 | Create UI to request new username/password (if the requested is not available) | 3 | Scott |
| 7 | Create success page/design where to go on success | 2 | Scott |

Acceptance Criteria:

- Given that the server and database are setup correctly and, when I register my account, then it will be saved into the database.
- Given that the username verification is working, when I register for an account using a username that is already taken, I will not be able to.
- Given that the UI is functioning, when creating an valid account, it will direct me to a Success Page (or wherever is appropriate).
- Given that the UI is functioning, when creating an account with an already-taken username, it will inform me to use a different name, and take me to where I can restart.
- Given the Unit Testing works, when the user requests a username/password that has incorrect format, they will receive a response to try again.

User Story #2

As a user, I would like to be able to log on to my UHub Account.

| Task # | Description | Time | Owner |
|--------|---|------|-------|
| 1 | Create method to verify password with Database | 4 | Yash |
| 2 | Create UI for Login page | 2 | Chris |
| 3 | Create button/navigation structure for new users | 4 | Chris |
| 4 | Create navigation to users page upon successful login | 3 | Chris |
| 5 | Proper Unit Testing to ensure all routes are directed correctly | 3 | Chris |

Acceptance Criteria:

- Given the user has filled out all forms correctly, when the user clicks submit, they will be directed to their homepage in which they will have their customized menu ready for use.
- Given the user is a new user, upon clicking the "New User? Sign Up!" button, they will be directed to a form that will allow them to sign up.
- Given reset password functionality has been completely implemented, current users will be able to be navigated to a page in which they will change their password.
- Given the user has filled out form incorrectly, the page will tell them to correct their mistakes.
- Given the user wants to exit the login page, the back button should allow for them to be directed to the landing page.

User Story #3

As a user, I would like to be able to log on ONCE to all platforms.

| Task # | Description | Time | Owner |
|--------|---|------|---------|
| 1 | Create system to control password memory and logic | 5 | Yash |
| 2 | Create UI to be able to input platform logins into UHub, and send the information to the Server | 4 | Chris |
| 3 | Create system to automatically log-on to each API as user logs on | 4 | Tejaswi |
| 4 | Create button in settings to not automatically log on | 2 | Chris |

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| 5 | Create viewable list of APIs logged onto by user | 3 | Chris |
| 6 | Proper Unit Testing to ensure user stays logged on to API and API "remembers" | 3 | Chris |

Acceptance Criteria:

- Given the user has logged onto a variety of APIs, their main page will contain a few of the ones they have already logged in once to.
- Given the user would not like for it to be logged on every time, they may go to their settings page and disable this function.
- Given the user is a new user, once registered they have the option of being directed to a list of APIs they can log on to, and once logged on, will be asked if they would like to remain logged on.
- Given the user would like to log out of an API, they may do that in the specific section for their API or in the sidebar.
- Given the customizability is in tact, the user can pin these APIs to the main screen however they like.

User Story #4

As a user, I would like to be able to "connect" with friends, that have an account on UHub.

| Task # | Description | Time | Owner |
|--------|---|------|-------|
| 1 | Create back end functions that connects one user to different | 4 | Yash |
| 2 | Create a button that gives users a choice to connect with another user | 2 | Scott |
| 3 | Come up with a list of all the users taking the course with that person who have the same graduate time as the user | 3 | Yash |

Acceptance Criteria:

- Given the user has logged in, when they see the "Click to Connect" button, they should connect to that friend in the back end.
- Given that the user is logged in, they should be able to look at a list of their friends who are taking any one of the same courses as them.
- Given the user sees all the courses his/her friends has in common with him/her, they should be able to search friends based only on a particular course.
- Given that the user is logged in, they should be able to see a list of users that might be their friends, a very basic recommendation system.
- Given that the Database correctly handles users, when inputting the friends username into an "add friend" UI, it should connect them.

User Story #5

As a student, I would like to have access to Blackboard.

| Task # | Description | Time | Owner |
|--------|--|------|-------|
| 1 | Create a back-end function that logs the user automatically into Blackboard | 2 | Yash |
| 2 | Call an API getting information from the user's Blackboard | 2 | Yash |
| 3 | Parse the information received from the API call into meaningful sections satisfying the user's needs such as grades and due dates | 4 | Yash |
| 4 | Create a test to see if the Blackboard API call is returning the grades and due dates. | 2 | Yash |

Acceptance Criteria:

- Given the user has logged in, if they wish to see their Blackboard info for specific courses, then relevant information should be displayed to them.
- Given that the user has logged into blackboard, when they want to see their grades, they should be able to look at the grades for a particular course.
- Given that the server has the proper authentication information, we should be able to parse the relevant information by making the right Blackboard API calls.

User Story #6

As a student, I would like to have access to Office 365 Mail.

| Task # | Description | Time | Owner |
|--------|--|------|---------|
| 1 | Create system to login to email account | 4 | Yash |
| 2 | Create system to control email through UHub platform | 4 | Scott |
| 3 | Create system to hide or view email on dashboard | 3 | Tejaswi |

Acceptance Criteria:

- Given that the User would like to access his/her email, they can log in using the UHub platform.

- Given that the User constantly uses Mail, they have the option to remain logged in.
- Given the User wants quick access, they can click on a button and view all university related mails.
- Given that the User would like to customize their interface and not view email, they can change the settings and hide email tab.
- Given that the User would like to see all mails, they can see emails in folders including inbox, sent, etc.

User Story #7

As a student, I would like to have access to an interactive calendar/planner.

| Task # | Description | Time | Owner |
|--------|---|------|---------|
| 1 | Create system for parsing Google API information so we can display its Calendar and Events. | 4 | Tejaswi |
| 2 | Create system add events to the calendar | 3 | Tejaswi |
| 3 | Create system notify users of upcoming events | 4 | Scott |
| 4 | Create viewable list of to -do items on planner | 3 | Tejaswi |
| 5 | Create button to check finished items from planner | 3 | Chris |

Acceptance Criteria:

- Given that the User would like quick access, they can click on calendar button to go to calendar.
- Given that the User would like to stay organized, they can add events to a calendar.
- Given that the User might forget upcoming events, the calendar will send notifications.
- Given a user has to take notes, they can click on a button to access planner.
- Given that a user has multiple tasks to complete, they can add tasks to planner and check them off when completed/deadline has passed.

User Story #8

As a user, I would like to be able to reset my password to my UHub account.

| Task # | Description | Time | Owner |
|--------|---|------|-------|
| 1 | Method to request change through UI | 2 | Scott |
| 2 | Unit Testing to make sure that password is of correct format. | 1 | Scott |

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| 3 | Interaction with Server to pass along new requested password to Database | 3 | Tejaswi |
| 4 | Database structure that allows changing of password field connected with given username | 4 | Yash |

Acceptance Criteria:

- Given that the UI is functioning, when changing a password, it will direct me to a Success Page (or wherever is appropriate).
- Given that the interaction between Server and Database is correct, the password that is put into the Database will match the password that the user sends to the server.
- Given that the Database is formatted correctly, the user should be able to login with the new password, and not be able to login with the old password.
- Given the Database is formatted correctly, the user should NOT be able to login using the old password (after resetting).
- Given that the UI is finalized, the ability to find access to the “reset password” functionality should be clear to the user.

User Story #9

As a student, I would like to view the courses I am enrolled in.

| Task # | Description | Time | Owner |
|--------|---|------|-------|
| 1 | Create a UI to view all the courses in a navigation bar | 3 | Yash |
| 2 | Create a basic dashboard UI for all the course | 2 | Yash |
| 3 | Be able to visit a course once you click on it in the navigation bar. | 1 | Yash |

Acceptance Criteria:

- Given that the user is logged in, when he wants to see all the courses he’s registered for, there should be a navigation bar showing all the courses.
- Given that the user is able to view all the courses, when they wish to view a course, they should be able to do so with a single click.
- Given that the user is able to view a course, they should be able to view the different resources associated with that course.

User Story #10

As a student, I would like to have access to a personal to-do list.

| Task # | Description | Time | Owner |
|--------|--|------|---------|
| 1 | Create UI for To-Do List | 2 | Chris |
| 2 | Make possible to save To-Do lists in the Database, connected to the User | 3 | Yash |
| 3 | Design proper interaction for Server to be able to receive To-Do lists and push them to the Database for saving. | 3 | Tejaswi |
| 4 | Create system of sub-categories | 3 | Chris |
| 5 | Create sidebar icon for the todo list that opens todo list | 2 | Chris |
| 6 | Create button to check finished items from to do list | 2 | Chris |
| 7 | Allow the list to be saved and filtered by classes | 4 | Chris |
| 8 | Proper Unit Testing to ensure items can be added and saved for each user | 3 | Chris |

Acceptance Criteria:

- Given that a user adds task(s) to the list, the task will appear in the permanent list once the user has clicked the "Done Editing" button.
- Given the UI is fully functional, the to-do list will appear, on click, on their screen as a widget, and it will be completely able for interaction. Clicking on the same button, will cause it to retract.
- Given the systems are implemented correctly, the user will be able to filter the to-do list to each specific class, having subcategories if they would like
- Given the databases are properly working, the To Do list will save all the items for their next session.
- Given the UI is fully functional, the user will be able to pin the To Do list to the screen.

User Story #11

As a student, I would like to have a sidebar with quick access to my resources.

| Task # | Description | Time | Owner |
|--------|-----------------------------|------|-------|
| 1 | Create sidebar for platform | 4 | Chris |

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|---|--|---|-------|
| 2 | Create buttons that connect to the different resources | 3 | Scott |
|---|--|---|-------|

Acceptance Criteria:

- Given that the User would like to access resources quickly, they can access by clicking the shortcut buttons on the sidebar.
- Given that the User wants to also access resources, they will be able to view the sidebar while on any page/ part of the platform.
- Given that the User would like to customize their interface, they can change the settings for sidebar
- Given that the User would like accessibility, the buttons and text will be easy to read/understand
- Given that the UI is well designed, the purpose and function of the sidebar should be obvious the the User.

User Story #12

As a student, I would like to real-time updates when platforms are updated.

| Task # | Description | Time | Owner |
|--------|---|------|---------|
| 1 | Design system on Server to keep a timer to check APIs for new information, checking to see if new updates should be pushed to the User. | 4 | Tejaswi |
| 2 | Make the front end able to update the Dashboard when there are updates to the Platform information. | 4 | Scott |
| 3 | Create a notification alert system which sends user notification. | 4 | Yash |
| 4 | Send notifications when new grades have been posted or a new assignment has been added | 3 | Chris |
| 5 | Create a button to turn notifications on or off for updates | 1 | Yash |
| 6 | Test that notifications are received only when notifications are turned on | 2 | Yash |

Acceptance Criteria:

- Given that a user has logged in, if the user wants to be notified, there should be an option which let's them choose if they want to notified or not.
- Given that a user has turned on notifications for updates, he should be getting updates regarding course announcements, grades and due dates.

- Given that the Server is properly set up, when a Platform has updated information, the User should be able to see the new information.

All Stories (bold = worked on in this Sprint):

As a user:

1. **As a user, I would like to be able to register for a UHub account.**
2. **As a user, I would like to be able to log on to my UHub account.**
3. As a user, I would like to be able to manage my UHub account.
4. **As a user, I would like to be able to reset my password to my UHub account.**
5. **As a user, I would like to only log on ONCE to all platforms.**
6. As a user, I would like to easily navigate any platform.
7. As a user, I would like to be able to customize my homepage, changing position of elements and which elements are shown.
8. **As a user, I would like to be able to “connect” with friends, that have an account on UHub.**
9. As a user, I would like to interact with a responsive design.

As a student:

1. As a student, I would like to view my grades.
2. As a student, I would like to view deadlines for specific courses.
3. **As a student, I would like to view the courses I am enrolled in.**
4. As a student, I would like to access my school email.
5. As a student, I would like to be able to ask and respond to questions related to course work.
6. As a student, I would like to have access to a messaging board.
7. As a student, I would like to be able to see if my peers are enrolled in similar courses.
8. As a student, I would like to create study groups with my peers.
9. **As a student, I would like to have access to a personal to-do list.**
10. **As a student, I would like to have access to an interactive calendar/planner.**
11. **As a student, I would like to have access to Blackboard.**
12. As a student, I would like to have access to Piazza.
13. **As a student, I would like to have access to School Email.**
14. As a student, I would like to receive notifications for course announcements and grades.
15. As a student, I would like to add events to my course calendar.

16. As a student, I would like to view general school announcements.
17. As a student, I would like to view possible transportation schedules.
18. As a student, I would like to access UHub across multiple devices.
- 19. As a student, I would like to have a sidebar with quick access to my resources.**
- 20. As a student, I would like to real-time updates when platforms are updated.**
21. As a student, I would like to have access to a universal feed, that displays all new "events".