

UHub

Sprint 2 Planning Document

***Sprint Overview***

In the second sprint we will be completing some of the user stories from the first sprint and ensuring that everything is functioning successfully on the application. Our general objective for this sprint is implementing more features and functionality to the foundation we have already built: allow users to manage accounts, fully implement the to-do list, calendar, allow users to connect with friends, and more.

**Scrum Master**:

Chris Concepcion

**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 we already have the base of the project in place, and now for experimenting with new features and resources, we must stay committed to the design and focus on not breaking what already works. Additionally, we are going to be trying new routes for accessing web resources (web crawlers), and so 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. Much like the last Sprint, we have members that will be busy and/or traveling during various parts of the Sprint, meaning we must be organized and clear what everyone must do right off that bat.

***Current Sprint Detail***

**User Story #1**

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

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| --- | --- | --- | --- |
| Task # | Description | Time | Owner |
| 1 | Add new Page in Frontend for Management | 4 | Yash |
| 2 | Create methods to alter values in Database | 4 | Yash |
| 3 | Create methods to verify success | 3 | Tejaswi |

**Acceptance Criteria:**

* Given that the Frontend is set up correctly, when I want to manage my account, I will be able to find a link to that page.
* Given that the Frontend is working, when I click the link to my Management Page, it will direct me there.
* Given that the UI is functioning, when on the Management Page, I can alter the values I have saved for my account.
* Given that the backend is set up, after entering new values for my account, it will change those values in the Database.
* Test by being able to update password, and logout, manual testing.
* Given the Testing Criteria were well made, the User Story passes the tests.

**User Story #2**

As a student, I would like to access my school email.

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| --- | --- | --- | --- |
| Task # | Description | Time | Owner |
| 1 | Assemble API for Outlook (Office 365) | 4 | Yash |
| 2 | Create UI for displaying the Email Information | 4 | Chris |
| 3 | Create methods to verify success | 2 | Chris |

**Acceptance Criteria:**

* Given the Frontend is developed, if the user wants to view their Email information, they should be able to find where to view the information.
* Given the API is correctly deployed, if the user wants to access their Email information, they can login through the Outlook (Office 365) API.
* Given Backend is functioning, after logging in through the Outlook (Office 365) API, it should pass the information back to the Frontend.
* Given UI is formatted correctly, upon received the information from the Backend (which contains information from the API), it displays the Email Information for the User.
* Test through automatic logins and redirectional links.
* Given the Testing Criteria were well made, the User Story passes the tests.

**User Story #3**

As a user, I would like to interact with a responsive design.

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| --- | --- | --- | --- |
| Task # | Description | Time | Owner |
| 1 | Use Bootstrap or some other responsive CSS for our website | 3 | Yash |
| 2 | Resize the content so that it is viewable on tablets and laptops of different sizes | 3 | Tejaswi |
| 3 | Test that when you look at the website on a screen of different size, the content is adjusted accordingly | 2 | Chris |

**Acceptance Criteria:**

* Given that the user wants to use the website, he should be able to do it from a cell phone.
* Given that the user wants to use the website, they should be able to do it from a tablet or a laptop a PC.
* Given that the user is using the website, the contents of the page should be adjusted according to the size of the device being used.
* Test that the website is responsive. This can be be done without actually using the website on different devices as there is an option in chrome which lets us see how the website will look on different devices.

**User Story #4**

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

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| --- | --- | --- | --- |
| Task # | Description | Time | Owner |
| 1 | Create UI for a friend Icon to see a list of possible “friends”/users on Hub platform | 3 | Chris |
| 2 | Create UI and routing for button that allows users to “connect” with one another | 3 | Scott |
| 3 | Create database collection for a “friends list” | 2 | Chris |
| 4 | Create routing and UI for a quick preview of “friends list” | 5 | Chris |

**Acceptance Criteria:**

* Given the user has logged in, they will have access to a button that allows them to navigate the “friend” sidebar.
* Given the user has friends, they have the option of viewing their friends’ list.
* Given the UI is functional, the user may click a button next to the a user’s name and they will be added as a friend.
* Manual Testing among multiple users.
* Given the Testing Criteria were well made, the User Story passes the tests.

**User Story #5**

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

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| --- | --- | --- | --- |
| Task # | Description | Time | Owner |
| 1 | Create UI for to-do list on application | 3 | Tejaswi |
| 2 | Allow user to add items to the list | 3 | Tejaswi |
| 3 | Parse the information received and save to a database | 4 | Tejaswi |
| 4 | Allow users to cross off/remove finished items | 3 | Tejaswi |

**Acceptance Criteria:**

* Given the user would like to stay organized, they can access a to-do list on UHub.
* Given that the user has multiple tasks, they can add items to the list.
* Given a user would like to view items on the list at a later time, the items on the list can be saved to a database.
* Given that the user has completed tasks, they can cross off items from the list.
* Test through creating multiple events across multiple users. Manual Testing.
* Given the User Story is implemented, it can pass the necessary testing.

**User Story #6**

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

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| --- | --- | --- | --- |
| Task # | Description | Time | Owner |
| 1 | Create UI for a calendar on the application | 3 | Chris |
| 2 | Create system to access calendar plug-in and access the library | 3 | Tejaswi |
| 2 | Create system to click on certain days on the calendar | 4 | Scott |
| 3 | Create system to view events saved to the calendar | 3 | Tejaswi |

**Acceptance Criteria:**

* Given that the User would like to access his/her calendar, they can view the calendar on UHub
* Given that the User would like to stay organized, they can view planned events on the calendar
* Given the User wants quick access, they can click on a button for to go to the calendar
* Given that the User would like to view events monthly, they can have a month view for the calendar.
* Given that the User would like to view events specific to a month, they can access events and switch between any month.
* Test through creating multiple events across multiple users.
* Given the Testing Criteria were well made, the User Story passes the tests.

**User Story #7**

As a student, I would like access to a messaging board within Piazza.

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| --- | --- | --- | --- |
| Task # | Description | Time | Owner |
| 1 | Create UI for forum in which user can interact with by opening to see more specific content | 4 | Yash |
| 2 | Create backend structure for user to post a question or note onto piazza. | 5 | Yash |
| 3 | Create UI and routing to view quick information about post such as if a question or note | 2 | Scott |
| 4 | Create UI and Backend that will allow user to search posts within a class. | 7 | Chris |

**Acceptance Criteria:**

* Given that the User would like to search a certain post, the user may type it into a search bar and a list of possible posts will appear.
* Given the User would like to post a question or note, they will have the ability to do so within the forum.
* Given the UI is functional, all the buttons and routing will correctly link you to the appropriate page within the dashboard section.
* Given a User would like more information on a post, they may click it and it will show them more content.
* Given the User wants current information, the forum will update in real time.
* Test manually with multiple users, one user to commit to using Piazza API rather than actual Piazza site.
* Given the Testing Criteria were well made, the User Story passes the tests.

**User Story #8**

As a student, I would like access Blackboard.

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| --- | --- | --- | --- |
| Task # | Description | Time | Owner |
| 1 | Prompt the user to fill in their username and password for Purdue Blackboard | 2 | Yash |
| 2 | Authenticate the username and password to see if there is a valid account associated with those credentials. | 2 | Yash |
| 3 | Create a very basic web crawler to crawl through the main page of Purdue Blackboard | 3 | Chris |
| 4 | Get all the courses that a specific user is enrolled in using the web crawler | 4 | Yash |
| 5 | Test for any user if the relevant courses for a given term are displayed. | 1 | Tejaswi |

**Acceptance Criteria:**

* Given that the user is logged into the website, they should be able to log into BlackBoard using his Purdue username and password.
* Given that the user is logged into Blackboard, they should remain logged into Blackboard for the duration of his session.
* Given that the user is logged into Blackboard, they should be able to see the courses they are enrolled in for that term.
* Test the functioning of the crawler to make sure only relevant data such as the courses is parsed from the web page.

**User Story #9**

As a student, I would like to get real-time updates.

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| --- | --- | --- | --- |
| Task # | Description | Time | Owner |
| 1 | Update Piazza platform in real time as any update happens. | 3 | Yash |
| 2 | Update Outlook platform in real time as any update happens. | 2 | Yash |
| 3 | Testing the functionality by updating any of the above mentioned platforms and then observing the changes | 1 | Yash |

**Acceptance Criteria:**

* Given that the user is logged in, they should be able to receive updates for Piazza as they happen real time.
* Given that the user is logged in, they should be able to receive updates for Outlook as they happen real time.
* Manually test if a platform is updated by making changes in the platform and checking if the platform is updated on the website.

**User Story #10**

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

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| --- | --- | --- | --- |
| Task # | Description | Time | Owner |
| 1 | Create method so that it displays a plan within at least ONE of the calendar display options. | 4 | Chris |
| 2 | Create a database for events planned with their dates. | 3 | Yash |
| 3 | Create a UI component that makes it clear to the User how to add an event. | 3 | Tejaswi |
| 4 | Proper unit testing that adds events and verifies that events have been added successfully | 3 | Chris |

**Acceptance Criteria:**

* Given that a user would like to add an event to the calendar, the user may click a button to do so.
* Given the database is functional, the events will be saved for the user.
* Given the UI is fully functional, the user will be able to filter the year through day, week, month, and so on.
* Given the UI and Database is functional, the user should be able to see the events either on the calendar or other form.
* Given the calendar is completely functional, it shall pass proper unit testing.

**ADDITIONAL USER STORIES:**

**User Story #A**

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

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| --- | --- | --- | --- |
| 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 |
| 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.

***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 (within a platform).**
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 receive notifications for course announcements and grades.
14. **As a student, I would like to add events to my course calendar.**
15. As a student, I would like to view general school announcements.
16. As a student, I would like to view possible transportation schedules.
17. As a student, I would like to access UHub across multiple devices.
18. ~~As a student, I would like to have a sidebar with quick access to my resources.~~
19. **As a student, I would like to real-time updates when platforms are updated.**
20. As a student, I would like to have access to a universal feed, that displays all new “events”.