Team 14 - Sprint 1 Planning Document

**Hot TopiX**



**Team Members:** Connor Brown, Hunter David, Steve Eisner, Baxter Govan, Ryan Klinedinst, Victor Pan

**Sprint Overview:** For our first sprint, we have explicit goals for the frontend, backend, and database. For our front end, we plan to create a number of UI pages to handle our user registration, user login, and profile customization functionality. For our backend, we will set up our hosting with AWS and create the infrastructure to handle requests and responses with the frontend. For our database, we plan to implement the SQL database and create the majority of our queries so that we can easily fetch and store information for future sprints. With these goals in mind, we hope to have the basics of a user experience by the end of this sprint.

**Scrum Master:** Hunter David

**Meeting Plan:** Wednesday, 7PM, WALC 3060

**Risks and Challenges:**

The risks and challenges of this sprint revolve around our hosting platform, AWS. Using the cloud is significant for properly hosting and executing our platform, so taking the time to properly configure AWS to work with our codebase will be necessary and useful.

We also have several goals in our user stories involving building our UI pages. As the majority of our team has minimal UI experience, we feel that these simple tasks may take longer or provide more challenges than we initially anticipated. This will be a challenge for us, and each of our team members will have to put in some time to familiarize themselves with React.Js so that this does not become a problem for us going forward.

Furthermore, the majority of our team members also lack experience working with SQL databases. Fortunately, we as a whole have more familiarity here than we do with UI, but this will still be a challenge for us. Certain team members may have to put in extra work to accomplish their database related tasks, and to ensure the pace of our progress in this sprint is not jeopardized.

**Current Sprint Detail:**

**User story #1:** As a user, I would like to register a new account.

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| --- | --- | --- | --- |
| # | Description | Estimated time | Owner |
| 1 | Create account/profile table in MongoDB | 2 Hrs | Hunter |
| 2 | Create query for creating a new account with all the associated info | 2.5 Hrs | Hunter |
| 3 | Create a “Create new account” page for users wanting to make an account | 4 Hrs (Each) | Victor, Connor |
| 4 | Implement email address verification | 2.5 Hr | Steve |
| 5 | Implement error message for invalid email / existing email | 1 Hr | Steve |
| 6 | Implement affirmative message for successful account registration | 1 Hr | Steve |
| 7 | Testing | 1 Hr | Connor |

Acceptance criteria:

* Given a user attempting to register an account with a valid email address, when they register, then their information will populate our database. The user will then receive an affirmative message and be able to login to their registered account.
* Given a user attempting to register an account with an invalid email address or an already registered email, when they register, then they will receive an error message.
* Given a user not wanting to make an account, when they click ‘go back’, they will be redirected back to the landing page

**User story #2:** As a user, I would like to be able to log into my existing account.

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| --- | --- | --- | --- |
| # | Description | Estimated time | Owner |
| 1 | ~~Verify that the input email and password match values stored in the database~~ | ~~3 Hrs~~ | ~~Connor~~ |
| 2 | Implement error message given invalid information | 1 Hr | Steve |
| 3 | Create login page UI, with forms for email and password | 5 Hrs | Ryan |
| 4 | Forward successfully logged in users to their Timeline | 1 Hrs | Steve |
| 5 | Testing | 1 Hrs | Connor |

Acceptance criteria:

* Given a user with a valid email address and password, when a user logs into Hot TopiX, then they are redirected to their timeline
* Given a user with an invalid email address, when a user logs into Hot TopiX, an error message pops up stating it’s an invalid email address
* Given a user with a valid email address and an invalid password, when a user logs into Hot TopiX, an error message pops up saying their password is invalid

**User story #3:** As a user, I want to be able to edit my profile

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| --- | --- | --- | --- |
| # | Description | Estimated time | Owner |
| 1 | Create query for updating an existing account’s profile, including bio | 3.5 Hrs | Hunter |
| 2 | Setup the UI to connect to the backend and change account info in the database | 5 Hrs | Victor |
| 3 | Create forms, ~~dropdown menus,~~ etc. for editing account info | 6 Hrs | Ryan |
| 4 | Testing | 1 Hr | Victor |

Acceptance criteria:

* Given a logged in user, when they want to edit their profile, they are presented with the edit profile page
* Given a logged in user ready to submit their profile edits, when they click ‘save’, their changes are saved to the database and their profile is updated
* Given a logged in user, when they want to delete information from their profile, they can make all non-required account info blank

**User story #4:** As a user, I want to be able to customize a brief bio for my profile

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| --- | --- | --- | --- |
| # | Description | Estimated time | Owner |
| 1 | Write call to edit the profile field in the database | 5 Hrs (each) | Hunter, Baxter |
| 2 | Create a way to edit the bio from the profile page | 5 Hrs (each) | Steve, Ryan |
| 3 | ~~Display a user’s bio at the top of their profile page~~ | ~~3 Hr~~ | ~~Steve~~ |
| 4 | Unit tests | 1 Hr | Steve |

Acceptance criteria:

* Given a user with an existing profile, when they click edit profile, then they have the ability to add or edit a short bio
* Given a user with an existing profile, if they don’t want to save their changes, then they are redirected to their dashboard
* Given a use with an existing profile, when they are ready to save their changes, then their changes are pushed to the database and their bio is updated

**User story #5:** As a user, I want to be able to select a display image for my profile

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| --- | --- | --- | --- |
| # | Description | Estimated time | Owner |
| 1 | ~~Add database support for a display image~~ | ~~3 Hrs~~ | ~~Hunter~~ |
| 2 | ~~Implement a way to store a profile image in the database and connect it to a user’s profile~~ | ~~3 Hrs~~ | ~~Victor~~ |
| 3 | ~~Display the user’s selected profile image at the top of their profile page~~ | ~~1 Hrs~~ | ~~Steve~~ |
| 4 | ~~Display the user’s selected profile image next to their posts~~ | ~~3 Hrs~~ | ~~Steve~~ |
| 5 | Testing | 1 Hr | Hunter |

Acceptance criteria:

* Given a valid .PNG or .JPEG image file, populate the user’s profile information with the image.
* Given a user attempting to view another user’s profile, the profile should display the user’s selected profile image at the top of the page.
* Given a user browsing the timeline, all posts should have the author’s profile picture displayed adjacent.

**User Story #6** As a user, I would like to be able to publish a microblog to the public

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| --- | --- | --- | --- |
| # | Description | Estimated time | Owner |
| 1 | Create an interface for users to type microblogs, ~~append topics,~~ and publish. | 7.5 Hrs (each) | Ryan, Steve |
| 2 | ~~Add microblog to user’s profile~~ | 3 Hrs | Ryan |
| 3 | ~~Store microblog in user’s post history in the database~~ | ~~5 Hrs (each)~~ | ~~Hunter, Victor~~ |
| 4 | Testing | 1 Hr | Steve, Victor |

Acceptance criteria:

* Given a user who wants to create a post, there should be a button for creating a new post
* Given a user clicks the new post button, there should be a textbox where the user can type their post and there should be a way to add topics (min 1 - max 5) to a post
* Given a user submits a post, the text written and the topics chosen will show up on a new post; users who follow the user and at least one topic should see the post in the timeline

**User story #7:** As a user, I would like to be able to delete my account

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| --- | --- | --- | --- |
| # | Description | Estimated time | Owner |
| 1 | ~~Make queries for deleting an account and all of its associated data~~ | ~~5 Hrs (each)~~ | ~~Hunter,Victor, Connor~~ |
| 2 | Implement a “User not Found” page for links to deleted users | 5 Hrs | Connor |
| 3 | Add a way to delete user’s account from settings page | 4 Hrs | Connor |
| 4 | Testing | 1 Hrs | Connor |

Acceptance Criteria:

* Given a user clicks delete account, then the user must be logged out of the website.
* Given an account is deleted, then all information and posts from the user should be deleted.
* Given a user views a deleted account, then the user should visit a user not found page.
* Given a user follows a deleted account, then the account should be removed from their followed account list and their posts should not be in the timeline.

**User story #8:** As a user, I would like my sensitive information to stay private

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| --- | --- | --- | --- |
| # | Description | Estimated time | Owner |
| 1 | ~~Save preferences for private info~~ | ~~3 Hrs (each)~~ | ~~Hunter, Baxter~~ |
| 2 | Implement encryption for passwords | 2 Hrs | Steve |
| 3 | Implement private fields for User Classes | 2 Hrs | Steve |
| 4 | Testing | 1 Hrs | Steve |

Acceptance Criteria:

* Given a user views another users account, then the user must not be able to see private information.
* Given a user who wants to make their information private, when they select the option, their critical information will stay private
* Given a user who wants to make their information public, when they deselect the option, their critical information will become public

**User story #9:** As a user, I would like to be able to follow a [user, topic] combination

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| --- | --- | --- | --- |
| # | Description | Estimated time | Owner |
| 1 | Build User following and ~~topic list~~ in Database | 3 Hrs | Baxter |
| 2 | ~~Implement follow button and topic list follow popup on UI~~ | 4 Hrs (each) | Baxter, Ryan |
| 3 | Implement data parse in backend | 3 Hrs | Baxter |
| 4 | ~~Testing~~ | 1 Hr | Baxter, Ryan |

Acceptance Criteria:

* Given that a user clicks on the follow other user button, the user should be able to pick topics that will filter the user’s posts that show up on the timeline
* Given that a user clicks on the follow other user button, their preferences on user and topic should be saved to the database
* Given that the user clocks on the follow other user button, when they select topics to follow, then those topics of interest should be saved to the database

**User story #10:** As a user, I would like to be able to search for a user to follow

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| --- | --- | --- | --- |
| # | Description | Estimated time | Owner |
| 1 | Build User searching method | 4 Hrs (each) | Baxter, Victor |
| 2 | Build and implement Search User page | 4 Hrs (each) | Baxter, Victor |
| 3 | Implement Searched User list pop up | 4 Hrs (each) | Baxter, Victor |
| 4 | Testing | 1 Hr | Baxter |

Acceptance Criteria:

* Given that the user being searched for does not exist, a pop up should appear saying user not found
* Given that the user being searched for exists, when a user clicks search, they should be able to see the searched user’s username appear
* Given that searching for a user works, user should be able to click on searched user’s popup and have it take them to the searched user’s profile page

**Non-Functional Implementation**

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| **#** | Description | Estimated Time | Names |
| 1 | AWS Framework | 5 Hours | Steve |
| 2 | SQL Database/Hosting | 10 Hours | Baxter |
| 3 | SQL Database/Hosting/integration | 16.5 hours | Hunter |
| 4 | Multithreaded Server | 5 Hours | Steve |

Acceptance Criteria:

* Working Hosting Framework in AWS accessible by all team members
* Working SQL Database capable of receiving queries from the server and responding
* Working Server capable of handling multiple simultaneously connected users

Total Hours of All Team Members:

|  |  |
| --- | --- |
| **Name** | **Hours** |
| Steve | 35.5 |
| Hunter | 30.5 |
| Connor | 24 |
| Victor | 28 |
| Baxter | 33 |
| Ryan | 22.5 |

**Remaining User Stories from Backlog:**

* As a user, I would like to be able to tag my microblog with topics of my choosing
* As a user, I would like to be able to repost another microblog
* As a user, I would like to be able to quote another microblog
* As a user, I would like to be able to view Hot TopiX on both mobile and the web
* As a user with disabilities, I would like to be able to easily view the application
* As a user, I want to be able to customize the color palette of my display.
* As a user, I would like for the timeline to only contain [user, topic] combinations I choose.
* As a user, I would like to be able to like the microblogs that appear in my timeline
* As a user, I would like to be able to see microblogs with new topics
* As a user, I would like to be able to accept or decline seeing more microblogs with new topic tags
* As a user, I would like to be able to follow other users
* As a user, I would like to be able to view another user’s profile, with all posts
* (If time allows) As a user, I want to be able to report microblog posts, that I feel are offensive
* (If time allows) As a user, I would like to be able to report another user for inappropriate or offensive content
* (If time allows) As a user, I would like to be automatically logged out if no user activity is recorded for 5 minutes or more
* (If time allows) As a user, I would like to be able to create a private account, where others cannot view my microblogs unless they are following me
* (If time allows) As a user, I would like to be able to request to follow a private account to view their posts
* (If time allows) As a user with a private account, I would like to be able to accept or decline follow requests
* (If time allows) As a user, I would like to see a recommend list of accounts to follow based on what’s trending
* (If time allows) As a user, when I go to follow another user, I would like to be able to see how many times s/he used each topic tag

Non-Functional:

* Usability: The web application should be easy to navigate and edit settings. We want a clean UI with fast response time to avoid annoying lag for users. To insure this, if any action takes longer than 5000 ms, we will notify the user that the requested action is taking longer than usual. After 10000 ms, we will present the user with a timeout error.

We also want to ensure that our application is accessible on all screen sizes and resolutions, as well as on all browsers. The application should be accessible to people with disabilities according to W3C’s accessibility guidelines version 2.

* Testing: (If time allows) We want to set up integration tests to make sure our backend can handle many users at once and existing users still see the filtered content they want