Sprint 1 Planning

Project Name: Eventor

Team 25 - Sean Rettig, Vance Menapace, Raul Lara-Concha, William Kettleborogh

Sprint Overview

Overview:

During this sprint, we plan to set up our local environments and get familiar with our tech stack. We hope to implement account features such as creating an account, logging in, and managing account information. We also hope to implement the ability for users to post and modify their posts.

Scrum Master: Sean
Meeting Plan:

- Standups: Tuesday @8:30pm and Thursday @7:30pm
- Other meetings: Wednesday @12:30, Sundays @1pm If needed

Risks and Challenges:

Since this is the first sprint, we anticipate delays in setting up local environments for development and organizing the code repository. Additionally, none of us are familiar with MERN stack, and we have little experience with web development. Overcoming this learning curve will be a large challenge for us when we are starting out. A possible risk we have is discovering our plans for our project are much harder than anticipated, or take much longer than estimated. We also assume that there will be some time spent watching tutorials and reading documentation.

Total hours:

Name	Hours
Vance	33
Will	30.5
Sean	31
Raul	30

Current Sprint Detail

Functional

User Story #1

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

#	Description	Estimated Time	Owner
1	Learn to make and implement UI	3h	Raul
2	Create UI for inputting display name, email, username, and password when creating an account.	3h	Raul
3	Learn how to store user information within the database.	2h	Vance
4	Create a data store for the user class. Store user account information on account creation.	3h	Vance
5	Hash passwords that are used in account creation.	2h	Vance
6	Create the 6-digit verification code sending and receiving for email verification.	3h	Vance
7	Create testing for creating an account tasks	3hr	Vance
		19	Total Hours

Acceptance Criteria:

1. Given that the UI for creating an account is implemented properly, when the user navigates to the signup page, then they should be presented with text fields to enter their account information.
2. Given that the user successfully created an account, a confirmation email should be sent to the email address inputted during login.
3. Given that the user successfully created an account, their account information should be stored in the database.
4. Given that account creation was properly implemented, the user should have verified their email before completing account creation.
5. Given that the user successfully created an account, nobody else should be able to create an account with the same username for the duration of that account's existence.
6. Given that learning how to store user information within the database was successful, a demo should be created that successfully stores and updates information in the database.

7. Given that testing has been implemented, a developer can break the function of creating an account, and the test should show an error.

User Story #2

As a user, I would like to sign into an account.

#	Description	Estimated Time	Owner
1	Create UI for login page	3hr	Raul
2	Create the UI for user settings, including an option to sign out of your account.	3hr	Raul
2	Auto sign-in on account creation.	1h	Vance
2	Research how to use cookies for user authentication.	6h	Vance
3	Create access tokens for credential cookies and send to user on login/account creation. Store cookies on client to be used for all auth-required web requests Signing out of account deletes the access token from the database, requiring the user to sign-in again	5h	Vance
6	Research how to use the url path for changing the web page along with using information in the url for database requests and the like	4hr	Sean
7	Redirect Users to homepage if no cookies	1hr	Sean
8	Pull information first thing if credential cookie is present	2hr	Sean
9	Create Testing for signing into account	2hr	Vance
		27	Total Hours

Acceptance Criteria:

1. Given that the UI for signing into an account is implemented properly, when the user is logging in, then they should be presented with text fields to enter their username and password.
2. Given that the user cookie token is stored correctly, the user should be able to see the homepage of the website after logging in.
3. Given that the password is stored correctly, the user should only be able to log into their account with the correct password.
4. Given that logging out is implemented correctly, the user should be able to sign into another account.
5. Given that logging in is implemented properly, a user should be able to be logged in multiple sessions simultaneously.

6. Given that research for how to use cookies for user authentication is complete, a functional demo should be produced that successfully stores a cookie on the client received by the server, and sends that cookie back for future web requests as needed.
7. Given that research has been done on how web pages are served with Node, a small demo should be created using a few web pages that link to each other using Node, ExpressJS, and React. Utilize information in the url to show specific things in the webpage. For example, access that username in the code.
8. Given that testing has been implemented, a developer can break the function of signing into an account, and the test should show an error.

User Story #3

As a user, I would like to reset my password if I forgot it.

#	Description	Estimated Time	Owner
1	Create the UI for password resetting.	2h	Raul
2	Utilize the 6-digit verification process to be used for verification before password resetting.	2h	Vance
3	Override user credential information stored in the database on password reset. Clear all authentication tokens.	2h	Vance
4	Create testing for resetting password	1hr	Vance
		7	Total Hours

Acceptance Criteria:

1. Given that the UI for password resetting is implemented properly, when the user attempts to reset their password, they will be presented with text fields to enter a new password.
2. Given that resetting password is implemented correctly, user credential information should be overridden and all login sessions revoked (access tokens stored in database deleted).
3. Given that resetting password is implemented correctly, the user should have verified their email (input the requested 6-digit code sent to their email) during the process before the password reset is completed.
4. Given that the user successfully reset their password, they should be able to login using their new password.
5. Given that a user has reset their password, they should no longer be able to login with their previous password.
6. Given that testing has been implemented, a developer can break the function of resetting a password, and the test should show an error.

User Story #4

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

#	Description	Estimated Time	Owner
1	Update the UI for user settings, including an option to delete your account.	1h	Raul
2	Implement request to remove all instances of the user from the database. Log out the user on account deletion.	2h	Will
3	Create testing for deleting an account	1hr	Will
		4	Total Hours

Acceptance Criteria:

1. Given that the UI for user settings and deleting an account is implemented properly, when the user wants to delete their account, they should be presented with a button to do so.
2. Given that account deletion is implemented properly, when the user deletes their account, then all traces of the user should be cleared from the database and the user should not be discoverable in any way on the platform.
3. Given that a user successfully deletes their account, they should be able to create a new account with the same username that their deleted account had.
4. Given a user has just deleted their account, their access token will be invalid on further page loads, and they will be redirected to the home page.
5. Given that testing has been implemented, a developer can break the function of deleting an accountt, and the test should show an error.

User Story #5

As a user, I would like to manage my account information including my username and password.

#	Description	Estimated Time	Owner
1	Update the UI for user settings, including the ability to change username and password.	1hr	Raul
2	Implement request to update username or password in the database.	4hr	Will
3	Create testing for managing account information	1.5hr	Will
		6.5	Total Hours

Acceptance Criteria:

1. Given that the UI for user settings is implemented properly, when the user wants to manage their account, they should be presented with text fields to modify their account information.
2. Given a user has input new information to their account, it should be saved to the database.
3. Given a user has changed their information, old information should not be present in the database anymore.
4. Given a user has changed their password, all access tokens except the current one should be deleted.
5. Given that testing has been implemented, a developer can break the function of updating a username or password, and the test should show an error.

User Story #6

As a user, I would like to be able to set the information on my profile, including a profile picture, display name, and a biography or status.

#	Description	Estimated Time	Owner
1	Update the UI for user settings, including a profile section where the user can change their profile picture, display name, and biography.	1h	Raul
2	Create the UI for the user profile, making it so a user can edit their status directly there.	1h	Raul
3	Learn NodeJS + ExpressJS and how they serve web pages	5hr	Sean
4	Deploy Node locally to serve profile information through web browser	3hr	Sean
	Add testing to changing profile information	2hr	Sean
		12	Total Hours

Acceptance Criteria:

1. Given that the UI for user settings is implemented properly, when users want to update their display name or biography, they should be presented with text fields and other elements to modify them.
2. Given that the UI for user settings is implemented properly, when users want to update their status, they should be presented with a text field and other elements to update it.
3. Given that the UI for user settings is implemented properly, when the users want to change their profile picture, they should be presented with an input element to select an image.
4. Given NodeJS + ExpressJS have been learned, create a small demo of using the two technologies to serve a couple of webpages.
5. Given that Node has been utilized, one may start the node server and have it server the profile information and support the previous acceptance criteria
6. Given that testing has been implemented, a developer can break the function of changing profile information, and the test should show an error.

User Story #7

As a user, I would like to have a list of events (posts) that I have created on my profile.

#	Description	Estimated Time	Owner
1	Create UI for a list of events	3h	Raul
2	Pull posts information from database	3hr	Will
3	Merge UI with data and add actions to buttons.	3hr	Will
4	Add button to edit post	1hr	Will
5	Add button to see post analytics	1hr	Will
6	Add testing for showing a list of events from a profile	1hr	Will
		12	Total Hours

Acceptance Criteria:

1. Given that the UI for a user's profile is implemented properly, when the user navigates to their profile, they should be presented with a list of their events (posts).
2. Given the user has pressed the edit post button, they should be redirected to a dummy page where one would edit the post (to be implemented in a later user story)
3. Given the user has pressed the view analytics button, they should be redirected to a dummy page where one would see analytics (to be implemented in a later user story)
4. Given that testing has been implemented, a developer can break the function of requesting data, and the test should show an error.
5. Given a post is present in the database with the user's username, it should appear in the list presented to the user.

User Story #8

As a user, I would like the ability to post an event onto my profile. Adding an address, description, event type, links, and other additional information.

#	Description	Estimated Time	Owner
1	Create UI for posting events	3h	Raul
2	Create Event class	3hr	Will
4	Learn how to set up MongoDB.	2hr	Sean
5	Set up MongoDB and create a buffer class for making database requests.	4hr	Sean
6	Push event information to database	2hr	Will
7	Create testing for posting an event to a profile	1hr	Sean
		15	Total Hours

Acceptance Criteria:

1. Given that the UI for posting events is implemented properly, when the user wants to create an, they should be presented with text fields and other elements to enter information about their event as detailed by the class diagram.
2. Given the event class has been created, it can be utilized by creating a new instance of the class to store post/event information in.
3. Given the event class has been created, it can be sent to and stored in the database.
4. Given an event is in the database, it can be retrieved by a generated event uuid.
5. Given the buffer class has been implemented, other developers do not have to interface directly with the database, but with the class to easily add events to the database.
6. Given that testing has been implemented, a developer can break the function of posting an event, and the test should show an error.

User Story #9

As a user, I would like the ability to edit posts that I have made.

#	Description	Estimated Time	Owner
1	Create an edit button to modify a post.	2h	Raul
2	Handle the client request by creating logic to modify the post in the database.	3hr	Will
3	Create testing for editing posts	1hr	Will
		6	Total Hours

Acceptance Criteria:

1. Given that the UI for posting events is implemented properly, when the user wants to edit a post, they should be presented with text fields and other elements to enter information about their post/event.
2. Given the user has pressed the edit post button, they should be presented with a page similar to the create post page, already filled out with the current post data
3. Given that testing has been implemented, a developer can break the function of modifying data, and the test should show an error.
4. Given that post-editing is implemented correctly, when the user presses the submits their edits, the post's data should be modified in the database.
5. Given that testing has been implemented, a developer can break the function of editing an event, and the test should show an error.

User Story #10

As a user, I would like the ability to delete posts I have made.

#	Description	Estimated Time	Owner
1	Create delete button for post page that shows if user is owner of post	1h	Raul
2	Pressing the delete button removes the post from the database	3hr	Will
3	Create testing for deleting posts	1hr	Will
		5	Total Hours

Acceptance Criteria:

1. Given that the UI for deleting a post is implemented properly, when the user wants to delete one of their posts, they should be presented with a delete button.
2. Given that post-deletion is implemented correctly, when the user presses the delete button, the post's data should be removed from the database.
3. Given that post-deletion is implemented correctly, when the user presses the delete button, their post should not be visible on their profile.
4. Given that testing has been implemented, a developer can break the function of deleting a post, and the test should show an error.

User Story #11

As a user, I would like the ability to create Twitter-like posts on my profile to get information to fans who follow me or visit my profile.

#	Description	Estimated Time	Owner
1	Create post class	3hr	Sean
2	Edit/Create UI for creating Events/posts	3h	Raul
3	Send information to database	2hr	Sean
4	Create testing for creating posts	2hr	Sean
		10	Total Hours

Acceptance Criteria:

1. Given that the UI for creating a post is implemented properly, when the user wants to create a post, they should be presented with a text field and other elements to enter the information about their post.
2. Given the UI for creating a post is complete, a user should be able to also indicate they would like to create an event with the post.
3. Given the post class has been created, it can be utilized by creating a new instance of the class to store post information in.
4. Given the post class has been created, it can be sent to and stored in the database.
5. Given a post is in the database, it can be retrieved by a generated post uuid.
6. Given that testing has been implemented, a developer can break the function of creating a post, and the test should show an error.

Backlog

Functional

1. ~~As a user, I would like to create an account.~~
2. ~~As a user, I would like to sign into an account.~~
3. ~~As a user, I would like to reset my password if I forgot it.~~
4. ~~As a user, I would like to be able to delete my account.~~
5. ~~As a user, I would like to manage my account information including my username and password.~~
6. ~~As a user, I would like to be able to set the information on my profile, including a profile picture, display name, and a biography or status.~~
7. ~~As a user, I would like to have a list of events that I have created on my profile.~~
8. ~~As a user, I would like the ability to post an event onto my profile. Adding an address, description, event type, links, and other additional information.~~
9. As a user, I would like to allow other users to RSVP or indicate interest for my events and see a list of users who have done so.
10. As a user, I would like to have a calendar on the app that shows all the events I am RSVPed for or interested in going to.
11. As a user, I would like to be able to follow other users.
12. As a user, I would like to be able to have a feed of the most recent events posted by users that I follow.
13. As a user, I would like the ability to like and share events.
14. As a user, I would like the ability to view analytics on events, such as likes, shares, and views.
15. As a user, I would like to be able to search for events based on my location or interests.
16. As a user, I would like to be able to search for profiles of other users.
17. As a user, I would like to be able to filter my search to better find what I am looking for.
18. As a user, I would like to allow other users to comment on my events.
19. As a user, I would like to be able to like and reply to other user’s comments.
20. As a user, I would like the ability to block other users causing me to not see any of their posts about events and preventing them from commenting or interacting on my profile.
21. As a user, I would like the ability to unblock users I have blocked.
22. As a user, I would like the ability to delete comments from my posts.
23. As a user, I would like to set other users as moderators with the ability to delete comments from my posts.
24. As a user, I would like the platform to automatically block posts and comments on posts that may contain obscene or offensive content.
25. As a user, I would like the ability to delete my own comments.
26. ~~As a user, I would like the ability to edit posts that I have made.~~
27. ~~As a user, I would like the ability to delete posts I have made.~~
28. As a user, I would like to share a link to the event somewhere else, and have an embedded stylized version of the event show up.

29. As a user who is an Artist, I would like the ability to have a custom formatted event type for going on tour, which shows all of my tour locations and dates.
30. As a user who is an Artist, I would like the ability to have a custom formatted event type for album drops/music releases, which allows me to embed a track list within my post and share links to different listening platforms.
31. ~~As a user, I would like the ability to create Twitter-like posts on my profile to get information to fans who follow me or visit my profile.~~
32. As a user, I would like the ability to attach image(s) to my posts.
33. As a user, I would like the ability to use markdown in my posts for increased control over text formatting.
34. As a user, I would like the ability to co-host an event with another user, making the same event show up as posted by both of us.
35. As a user, I would like to post updates to a specific event.
36. As a user, I would like the ability to view my notifications in a dedicated UI location (e.g. a "notification bell" dropdown that shows my notifications in order of recency).
37. As a user, I would like the ability to opt-in to notifications from users whose posts I am interested in.
38. As a user, I would like the ability to configure which types of posts I get notifications from.
39. [If Time Allows]: As a user, I would like to see what the weather will be at the location of an in-person event.
40. [If Time Allows]: As a user, I would like the ability to share a map for my in-person events so attendees can find their way around easier.
41. [If Time Allows]: As a user, I would like the ability to add an event to my external calendar app.
42. [If Time Allows]: As a user, I would like the ability to link my calendar from this app to my external calendar app (automatically updating).
43. [If Time Allows]: As a user, I would like an interactive user tutorial for how to use the app.

Non-Functional

Security and Authentication

- Users will be able to log into their own accounts or sign up for a new account. Passwords will be stored securely in a SHA256 hashed form.
- [If Time Allows]: Allow users to sign in through providers such as Google, Facebook, Apple, etc.

Web Application

A web interface to host the application. We will use the MERN stack to create our application. MongoDB will be used as our database to store necessary information. ExpressJS will be used to support Node and provide middleware and APIs. ReactJS is used to construct the UI and UX. NodeJS will be used to serve the website.

- As a user, I would like to have 24/7 access to the app.

- As a user, I would like the system to have the capability to handle me posting at least one event per minute.
- As a developer, we would like to be able to host at least 100 concurrent users in their general use of the app.
- As a developer, I would like to learn how to use all of these systems to create the application.
- As a developer, I would like to wireframe the User Interface before coding it (prototyping).
- As a user, I would like to access this service on mobile as well as desktop.
- As a mobile user, I would like the User Interface to be optimized for mobile use.

Usability

The user interface will be intuitive and easy for the average user to navigate. The interface will be designed so users can accomplish a task such as post an event, RSVP for an event, etcetera, as quickly and simply as possible by minimizing the number of clicks required to do so.

Architecture and Performance

Must be able to run on the free tier of AWS.

TEAM NUMBER	25
SPRINT	1
TEAM MEMBERS	Sean Rettig, Vance Menapace, Raul Lara-Concha, William Kettleborogh

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STORY NUMBER	TASK DESCRIPTION	TIME	OWNER	START DATE	DUE DATE	WEEK 1					WEEK 2					WEEK 3				
						M	T	W	R	F	M	T	W	R	F	M	T	W	R	F
1	**As a user, I would like to create an account.**																			
🟩	Learn to make and implement UI	3h	Raul	9/23/24	9/24/24	🟩	🟩													
🟩	Create UI for inputting display name, email, username, and password when creating an account.	3h	Raul	9/25/24	9/25/24			🟩												
🟦	Learn how to store user information within the database.	2h	Vance	9/26/24	9/26/24				🟦											
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🟦	Create testing for creating an account tasks	3hr	Vance	10/10/24	10/10/24														🟦	
2	**As a user, I would like to sign into an account.**																			
🟩	Create UI for login page	3hr	Raul	9/26/24	9/26/24				🟩											
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🟦	Research how to use cookies for user authentication.	6h	Vance	10/1/24	10/3/24							2h	2h	2h						
🟦	Create access tokens for credential cookies and send to user on login/account creation. Store cookies on client to be used for all auth-required web requests Signing out of account deletes the access token from the database, requiring the user to sign-in again	5h	Vance	10/3/24	10/3/24									🟦						
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🟦	Override user credential information stored in the database on password reset. Clear all authentication tokens.	2h	Vance	10/8/24	10/8/24												🟦			
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4	**As a user, I would like to be able to delete my account.**																			
🟩	Update the UI for user settings, including an option to delete your account.	1h	Raul	10/1/24	10/1/24							🟩								
🟥	Implement request to remove all instances of the user from the database. Log out the user on account deletion.	2h	Will	9/30/24	9/30/24						🟥									
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5	**As a user, I would like to manage my account information including my username and pa**																			

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🟪	Implement request to update username or password in the database.	4hr	Will	10/1/24	10/2/24							🟪	🟪							
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10	**As a user, I would like the ability to delete posts I have made.**																			
🟩	Create delete button for post page that shows if user is owner of post	1h	Raul	10/10/24	10/10/24														🟩	
🟪	Pressing the delete button removes the post from the database	3hr	Will	10/2/24	10/3/24								🟪	🟪						
🟪	Create testing for deleting posts	1hr	Will	10/4/24	10/4/24										🟪					
11	**As a user, I would like the ability to create Twitter-like posts on my profile to get informat**																			
🟫	Create post class	3hr	Sean	9/27/24	9/30/24					🟫	🟫									
🟩	Edit/Create UI for creating Events/posts	3h	Raul	10/11/24	10/11/24															🟩
🟫	Send information to database	2hr	Sean	10/9/24	10/9/24													🟫		
🟫	Create testing for creating posts	2hr	Sean	10/10/24	10/11/24														🟫	