LTMS.io Sprint 1 Planning Document
Team 15

Team Members: Jack Doherty, Avik Singh, Hank Krutulis, Neel Chaudhari, Joseph Schmidt, Chris Rosenblatt (Project Coordinator)

Total Sprint Hours: 160

Sprint Overview:
During this sprint, we hope to develop a website that contains all the necessary webpages with light functionality. The backend will be set up alongside the database to give us an idea of how our data inputs and queries will look like for future sprints. Our main goal is to build upon the basics with little to no bugs or errors so we don't have any problems moving forward. In addition to this we intend on prototyping basic tournament scoring system which the final product should resemble.

Scrum Master: Jack Doherty

Meeting Plan: Mondays/Wednesdays at 9:00 PM, Tuesdays at 2:30 PM with project coordinator

Risks and Challenges:
Since this is the first sprint of the project, we will need to coordinate heavily with each other as teammates. We have a rough idea about how we will implement each user story during our development, but there may be some unforeseen roadblocks ahead. Although this is expected to happen, we will need to adapt quickly to make sure we keep on track with our team goals. Most of us will be learning new languages and tools to develop backend services, so it will take time for all of us to understand how to utilize the backend.

User Story #1
As a user, I would like to click on the logo to go to the dashboard.

#	Description	Est. Time	Owners
1	Create a logo	4 hr	Avik
2	Create logo to homepage functionality	3 hr	Avik

Acceptance Criteria:
- Given that I am logged in and not on the homepage, when I click the logo, I should go to the homepage.

- Given that I am not logged in, I should not be able to go to the homepage.
- Given that I am logged in and I click the logo while at the homepage, the page should not refresh.

User Story #2
As a user, I would like to be able to add a profile picture so that I can easily be identified at an event.

#	Description	Est. Time	Owners
1	Create Azure data storage bucket	1 hr	Jack
2	Provision secure Azure bucket access to backend	3 hr	Jack + Hank
3	Create frontend for picture upload	4 hr	Jack + Hank
4	Test and Debug	2 hr	Hank

Acceptance Criteria:
- Given that Azure access has been successfully setup, when a user opens a page, the client should receive the profile picture via the backend.
- Given that the frontend is properly set up, when a user drag and drops a photo, the client should upload the picture to Azure.
- Given that the frontend is properly set up, when a user drags and drops an invalid file, the client should inform them of the error and ask them to try again.
- Given that the picture pipeline is properly functioning, when a user opens an appropriate page, their profile picture should appear.

User Story #3
As a developer, I want to easily be able to assign the role of global tournament director to an account so they can delegate tournament director status to others.

#	Description	Est. Time	Owners
1	Create a UI for setting accounts as tournament directors	4 hr	Joseph
2	Create a UI for setting accounts as any user type	6 hr	Joseph

Acceptance Criteria:
- Given that I am a developer, I can assign accounts as tournament directors.

- Given that I am a tournament director, I can assign accounts as certain user types.
- Given that I am not a tournament director, I cannot assign accounts as anything.

User Story #4
As a user, I would like to be able to create an account so that I have an ID to create and be invited to tournaments.

#	Description	Est. Time	Owners
1	Read documentation and set up Auth0 Lock	3 hr	Avik
2	Create front-end wrap for Auth0 Lock	4 hr	Avik
3	Create user schema for MongoDB	2 hr	Hank
4	Maintain Auth0 identity with backend login	8 hr	Joseph
5	Test and debug account creation via Lock	5 hr	Avik

Acceptance Criteria:
- Given the user enters their login information, when the user clicks to sign up, then it should be submitted to a registration API.
- Given valid login information, when the user submits the information, then the API should create an account in the database.
- Given the user already has an account, when the user goes to create an account, they should be notified that they already have one.
- Given the account creation was successful, when the account is created in the database, then the user should get a confirmation email.
- Given the user provides a weak password, when the user goes to create an account, they should not be allowed to create it.

User Story #5
As a user, I would like to be able to login to my account so that I can manage my tournaments and account.

#	Description	Est. Time	Owners
1	Login Frontend via Auth0 Lock	1 hr	Avik
2	To take Auth0 Ident and create local auth session	8 hr	Avik
3	Pull user details from backend and customize dashboard appropriately	4 hr	Hank

#	Description		Est. Time	Owners
4	Send send error message with incorrect login via Auth0 Lock		3 hr	Avik
5	Test and debug user login via Lock		5 hr	Jack

Acceptance Criteria:
- Given the user entering their email and password, the user should be logged in.
- Given the user is in the homepage, they should see the dashboard.
- Given the user inputting invalid login information, the user should be given an error (does not reveal what is wrong).

User Story #6
As a user, I would like to be able to sign out of my account so that I can ensure my information is secure.

#	Description	Est. Time	Owners
1	Logout via Frontend	2 hr	Joseph
2	Clear session from client	2 hr	Joseph
3	Test and debug user logout via Lock	2 hr	Joseph

Acceptance Criteria:
- Given that the logout button is correctly implemented, the user session should completely and safely end.
- Given the user has successfully logged out, when the user clicks the logout button, then they should see confirmation of logout on screen.
- Given the logout has been completed successfully, when the user reaches the logout confirmation, then the user should be brought back to sign in page after confirmation.

User Story #7
As a user, I would like to be able to edit account details so that I can change my account info as I see fit.

#	Description	Est. Time	Owners
1	Create account details page	4 hr	Neel
2	Create API route to update user info and validate changes	2 hr	Jack
3	Test route validation	2 hr	Jack

#	Description	Est. Time	Owners
4	Test and Debug Class	4 hr	Neel

Acceptance Criteria:
- Given that the user is properly credentialed, the user should be able to view their account details.
- Given that the user has selected the edit button, the user should have access to edit their account details.
- Given that the user changes their information, the database will change reflect the changes.

User Story #8
As a user, I would like to reset my login info and password so that I can update my security info.

#	Description	Est. Time	Owners
1	Create a 'reset login' info page:	4 hr	Neel
2	Create query to the backend to update information	2 hr	Neel
4	Test and debug reset login info and password	3 hr	Neel

Acceptance Criteria:
- Given I input my updated email, it is updated on the database.
- Given I input my updated password, it is updated on the database.
- Given I update my info in any way, it should email my prior email to confirm.

User Story #9
As a user I would like to delete my account.

#	Description	Est. Time	Owners
1	Remove user details from database	3 hr	Neel
2	Remove user authorization from Auth0 Lock	3 hr	Neel
3	Test and debug account deletion	2 hr	Neel

Acceptance Criteria:
- Given the user has chosen to delete their account, when the user confirms the deletion, then the user's information should be removed from the database.
- Given the user has confirmed the deletion, when the the details are removed the database, then the user's authorization should be removed from Auth0 Lock.

- Given the user is not logged in, they should not be able to delete an account.

User Story #10
As a user, I want to receive email notifications concerning changes to my account so that I can verify changes made.

#	Description	Est. Time	Owners
1	Create email notification system for email confirmations	2 hr	Jack
2	Email notification system for important changes	2 hr	Jack
3	An email is sent to your email with your updated information	2 hr	Jack
4	Test and debug email notification system via testmail	2 hr	Jack

Acceptance Criteria:
- Given a new account created, when the new account is added to the database, send a confirmation email to the new user.
- Given a new email address, when the database had been updated, then send a confirmation email to the new email.
- Given the account details have been updated, when the user submits the changes, then they should get email confirmation that their details have changed.

User Story #11
As a developer, I want to create a React project for our frontend so that we can develop the frontend

#	Description	Est. Time	Owners
1	Create React project using create-react-app	0.5 hr	Jack + Neel
2	Installing appropriate packages	0.5 hr	Jack + Neel
3	Setup React-Redux Boilerplate	4 hr	Neel
4	Setup React Router Boilerplate	1 hr	Neel

Acceptance Criteria:
- Given I have developer access, I want to be able to easily clone into the repository and access the front-end.

- Given I have developer access to the repository, I want to be able to have a readily set-up framework to start development from.
- Given that I am a user, I want to access an attractive, responsive UI.

User Story #12

As a tournament director, I want to create an official event so that I can run an event with approved volunteers.

#	Description	Est. Time	Owners
1	Create the event and team schema in MongoDB	5 hr	Hank
2	Implement UI for Event Create AND Event Setup Wizard	7 hr	Jack
3	Key Volunteer Assignment Popup Modal	6 hr	Hank
4	Test and Debug key volunteer assignment	5 hr	Jack + Hank

Acceptance Criteria:
- Given that I invite a volunteer, the volunteer will be added to the event.
- Given that a tournament director creates an official event, it is inputted into the database.
- Given that a tournament director has created an official event, the event creation wizard will open.

User Story #13

As a referee, I would like to be able to enter scores so that I can record the scores of each team in each event.

#	Description	Est. Time	Owners
1	Create the match score and team schema in MongoDB	3 hr	Hank
2	Create a front-end UI for score entry	5 hr	Joseph
3	Connect front-end scoresheet to backend migration	4 hr	Hank
4	Test and debug entering scores	6 hr	Hank + Joseph

Acceptance Criteria:

- Given the user is a referee, when the user presses the new match button, then they should have access to open a new match and score it.
- Given the match has been scored, when the scoring has been completed by user, then the data must be migrated to the database.
- Given the match has been scored, when the match scores have been migrated to the database, the scores should be locked for only head ref to review.

Added User Stories:
These are user stories that were overlooked or not necessary until the project was further realized.

1. As a tournament director, I want to create an official event so that I can run an event with approved volunteers.
2. As a user, I want to receive email notifications concerning changes to my account so that I can verify changes made.
3. As a developer, I would like to research Auth0 so that I have a better understanding of our 3rd-party authentication provider.
4. As a developer, I want to easily be able to assign the role of global tournament director to an account so they can delegate tournament director status to others.

Remaining Backlog (not including added user stories):

Accounts:
    As A User:
1. ~~As a user, I would like to be able to create an account so that I have an ID to create and be invited to tournaments.~~
2. ~~As a user, I would like to be able to login to my account so that I can manage my tournaments and account.~~
3. ~~As a user, I would like to be able to edit account details so that I can change my account info as I see fit.~~
4. ~~As a user, I would like to click on the logo to go to the dashboard.~~
5. ~~As a user, I would like to be able to add a profile picture so that I can easily be identified at an event.~~
6. ~~As a user, I would like to be able to sign out of my account so that I can ensure my information is secure.~~
7. ~~As a user, I would like to reset my login info and password so that I can update my security info.~~
8. As a user, I want a third party single sign on so that I don't need a password.
9. As a user, I want 2-factor-auth so that my account is more secure.
10. ~~As a user, I would like to delete my account.~~
11. As a user, I want to be able to change between light mode and dark mode so that I can customize my UX.

Viewing:

As A User:
1. As a user, I would like to be able to search for unofficial tournaments so that I can register for the tournament I want to volunteer at.
2. As a user, I would like to be able to view unofficial tournaments near me so that I can register for a local tournament.
3. As a user, I would like to be able to see the schedule for the events so that I can plan ahead for the tournament.
4. As a user, I would like to be able to see the final scores so that I can see the tournament standings.
5. As a user, I want to be able to access quick links to relevant documents so that I have reference material for the game.

Timing:

As A Volunteer:
1. As a timer (volunteer), I would like to set a timer during the team matches so that I can consistently manage time.
2. As a timer (volunteer), I would like to display scores on an auxiliary display, so that I can display the standings to the audience.
3. As a timer (volunteer), I would like to have sound effects so that I can inform participants of the remaining match time.

Scoring:

As A Referee:
1. ~~As a referee, I would like to be able to enter scores so that I can record the scores of each team in each event.~~
2. As a head referee, I want to be able to modify scores and make notes on my modifications so that I can make proper adjustments as necessary.
3. As a head referee, I want to be able to assign other users as referees so that I can have additional users with referee access.
4. ~~As a head referee, I want to be able to run practice matches so that I can run matches without saving scores.~~

Scheduling:

As A Tournament Director:
1. As a tournament director (admin), I would to be able to generate a schedule for the tournament based on parameters (e.g. start/end time, # of matches per team) so that I can distribute a schedule to teams and run the event.
2. As a tournament director (admin), I want a checklist of things to do/run (e.g. generate schedule, assign volunteers), so that I can keep track of event tasks.
3. As a tournament director (admin), I want to be able to generate a schedule report so that I can inform teams and volunteers of the day's schedule.
4. As a tournament director (admin), I want to be able to manually change the generated schedule so that I can accomodate special cases into the schedule.

5. As a tournament director (admin), I would like to drop teams from the schedule so that if a team can not compete we can adjust the schedule.
6. As a tournament director (admin), I would like to resolve and minimize conflicts in judging and match schedules.

Assignment:
As A Tournament Director:
1. ~~As a tournament director (admin), I want to be able to assign users as different volunteer roles so that users can have different levels of access to the event.~~ (This user story was too closely related to the next therefore we crossed both off)
2. ~~As a tournament director (admin), I want to be able to invite other volunteers to my event with role based permissions so that they can access functionality to execute their role.~~
3. As a tournament director (admin), assign awards based on judging scores so that we can give out awards.
4. As a tournament director (admin), I want to generate a report of advancing teams so that we can advance teams.

Judging:
As A Judge:
1. As a judge, I want to be able to fill out the judging rubric through the application so that my notes and scores are submitted securely.
2. As a judge, I want to continually rank my teams relative to each other so that I can keep track of who performed the best.
3. As a judge, I want to lock in previous team rankings, so that I don't lose track of my ranking history.
4. As a judge advisor, I want to be able to view all judging rubrics so that I can view all the judges' notes and scores together.
5. As a judge advisor, I want to be able to assign other users as specific types of judges so that I can have additional users with judge access.
6. As a judge advisor, I want to be able to send teams their feedback from their judging sessions so that they have a better idea of what they did well and what they can improve on.
7. As a judge advisor, I want to be able to modify the notes taken by judges so that they can be sent to teams.
8. As a judge advisor, I want to be able to see documents and guides as well as allowing relevant judges to, so that they can better understand their relevant award criteria.

Development:
As A Developer:
1. As a developer, I want to easily write new score sheets, so that new challenges year-by-year are able to be added to the application.

2. ~~As a developer, I want to easily be able to assign the role of global tournament director to an account so they can delegate tournament director status to others.~~
3. As a developer, I would like to expose a public API so that other developers could pull event data.
4. As a developer, I would like to track orphaned events from deleted accounts, so that data is still reachable after account deletion.