

PocketSports

A Digital Coaching App

Progress Evaluation

Milestone 4

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Florida Institute of Technology

2/19/2025

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1. Progress of current Milestone (progress matrix)

Task	Completion %	Garrett	Tyler	Taylor	Parker	To do
Create Coach/Player Homepage	100%	0%	0%	100%	0%	
Create Coach/Player calendar page	100%	0%	40%	60%	0%	
Create drill bank	100%	100%	0%	0%	0%	
Create different drill views for each sport	100%	0%	100%	0%	0%	
Add interactive lines and other icons for drill editing	100%	0%	0%	0%	100%	

2. Discussion of each accomplished task (and obstacles) for the current Milestone (at least a few sentences, ie a paragraph)

2.1 Create Coach/Player Homepage

The homepage has a different layout for both the coach and player views. Players can view their upcoming events and goals, while coaches have access to upcoming events, practice plans, and top-performing players on their team. I implemented data retrieval, allowing the homepage to fetch and display the three closest upcoming events, the latest practice plans, and top performers based on stats for the coaches. The player's data is retrieved from their progress in their goals and upcoming events on their calendar.

2.2 Create Coach/Player calendar page

The coach will be able to create an event based on a date selected on the calendar. Then, the coach will fill out information on it, such as the location, time, and event name. Once it is stored in the database, the players will be able to see it on their calendars as well. The players can click on the event and see the additional information on it.

2.3 Create drill bank

A database was created to store each drill. Each drill consists of a drill ID to uniquely identify it, a drill name, a drill file path to store it as a pdf, and a team ID so that it only shows up with the team that created the drill. Once drills are stored here, they should be able to be retrieved to add to a practice plan.

2.4 Create different drill views for each sport available

Each sport, including Lacrosse, Volleyball, and Basketball, features a unique field view designed to serve as a canvas for drill editing. Users can seamlessly slide through different field layouts to select the one they want to customize, ensuring an intuitive and sport-specific editing experience.

2.5 Add interactive icons and lines for drill creation

For each of the sports, it is now possible to select a template, create a practice plan using drag and drop icons for X's, O's, and lines between them. After creating this plan, you can click a "Save Practice Plan" button in order to save the file to the database. The files are saved as the pdf encoded in base64, appearing as a large string. Next to each practice plan in the drill bank, you can select the option to download it as a PDF, in which case it will fetch the string from the database, convert it back to a PDF, and download it through the browser

3. Discussion of contribution of each team member to the current Milestone

3.1 Garrett Gmeiner

In this milestone, I focused on the drill bank and started with the practice plan creation. I made a database for the drill bank and one for a practice plan. Each drill consists of a drill ID to uniquely identify it, a drill name, a drill file path to store it as a pdf, and a team ID so that it only shows up with the team that created the drill. Once drills are stored here, they should be able to be retrieved to add to a practice plan. The practice plan consists of a uniquely identifiable plan ID, a plan name, a plan date, a plan practice time range, a team ID so it is only shown to a particular team, and a list of drills consisting of their drill IDs and duration of each drill.

3.2 Tyler Ton

In this milestone I focused on calendar creation and different drill views for each sport. For the calendar creation, I created a basic calendar page where users can schedule events on certain days. When users click on a specific date on the calendar, an event or reminder they scheduled should come up. Information was saved to local storage for quick development. In addition, different drill views for different sports were loaded with a slider to act as a canvas for editing.

3.3 Taylor Carlson

In this milestone, I designed the homepage layout for both the coach and player views. Players can view their upcoming events and goals, while coaches have access to upcoming events, practice plans, and top-performing players on their team. I implemented data retrieval, allowing the homepage to fetch and display the three closest upcoming events, the latest practice plans, and top performers based on stats. Additionally, I developed the roster page, which retrieves users from the database based on their team ID and displays their information in individual cards. I also worked on the calendar page, adding a feature where users can create events through a popup form. These events are stored in the database until deleted, and clicking on an event displays details such as location and time.

3.4 Parker Cummings

In this milestone I implemented the ability for users to create drills for their practice plans. I implemented a Node.js library called Fabric.js that allows users to create drag and drop functionalities for web Apps. Users can select one of the three templates for the three sports (basketball, lacrosse, volleyball), and then create a practice plan using the drag and drop feature based on that template. The available elements are X's to represent opponents, O's to represent players on the team, and an arrow to represent movement during the drill. After creating the drills, a user can save them to the database through a base64 encoded string. Then, the user can download these drills, fetching the encoded string and converting it back to a PDF and downloading through the browser. I also worked on styling for the practice plan and drill bank page. I also altered the drill schema slightly to add the base64 encoded PDF string to the drill table.

4. Plan for the next Milestone (task matrix)

Task	Garrett Gmeiner	Tyler Ton	Taylor Carlson	Parker Cummings
Create goal page for coaches with trackable metrics of individual player goals and team goals	0%	50%	50%	0%
Create goal page for players with trackable metrics	0%	50%	50%	0%
Implement saving a drill to a PDF and sending it from coaches to players	0%	00%	0%	100%
Create practice plan feature	0%	50%	0%	50%
Create event feature for the calendar	0%	25%	75%	0%
Execute practice plan feature	100%	0%	0%	0%
Roster user removal	0%	0%	100%	0%

Create E-book page	100%	0%	0%	0%
Create Poster	25%	25%	25%	25%

5. Discussion of each planned task for the next Milestone

5.1 Create goal page for coaches with trackable metrics of individual player goals and team goals

The goal page will show the coaches the overall progress of all their team's goals as well as badges that have been accomplished throughout the season. The coach will be able to create a goal for their team that will appear on the players app as well. The coach will see how well they are doing by updating the goal depending on practice or game. Also, the coach will be able to comment on any practice results that they want to send to players and enter stats for the team as well.

5.2 Create goal page for players with trackable metrics

The goal page will show the players the overall progress of all their team's goals as well as badges that have been accomplished throughout the season. The player will be able to create a goal for their team or themselves that they can track. The player will see how well they are doing by updating the goal depending on practice or game. Also, the player will be able to see any comments the coach has on any practice results.

5.3 Implement saving a drill to a PDF and sending it from coaches to players

After a drill is created, the coach will have the option to export the drill onto a PDF with an export button available on the page for further use.

5.4 Create practice plan feature

A forum should be created where the user can enter a plan name, a plan date, a plan practice time range, and choose from a list of drills and add a duration for each drill. This plan should show up on the calendar and should be viewable when clicked on.

5.5 Create event feature for the calendar

The events will have additional information that can be added to them, such as location, time, and any drills that the coach has planned for that day. The player will be able to click on it and see the information. The coach will be able to create an event and add the information easily.

5.6 Execute practice plan feature

A coach should have the ability to start a particular drill on the most recent practice plan of the day on the practice plan tab and a pop up should come up with the ability to add the stats on to the drill for each player on the roster along with a stop drill button. The time of the drill will be saved with it. The drill and practice plan databases will need minor tweaks to accommodate this feature.

5.7 Roster user removal

Coaches can remove players from their roster view by clicking a button on the roster page and the players will be removed from the team and will no longer be able to see the team's information when logged in.

5.8 Create E-book page

Ebook page for the senior design showcase will be created. Template:

<https://docs.google.com/document/d/1UiqYbF29x2JXp8tNIZKIVyneHoa01T9G/edit>

5.9 Create Poster

Poster for the senior design showcase will be created. Template:

<https://docs.google.com/presentation/d/1NTmlTkW3WBkNaWjaZBfwTy6J4oXFmcid/edit?rtfpof=true&sd=true>

6. Date(s) of meeting(s) with Client during the current milestone

N/A

7. Client feedback on the current milestone

N/A

8. Date(s) of meeting(s) with Faculty Advisor during the current milestone

2/20/2025

9. Faculty Advisor feedback on each task for the current Milestone

Faculty Advisor Signature: _____ Date: _____

10. Evaluation by Faculty Advisor

- Faculty Advisor: detach and return this page to Dr. Chan (HC 209) or email the scores to pkc@cs.fit.edu
- Score (0-10) for each member: circle a score (or circle two adjacent scores for .25 or write down a real number between 0 and 10)

Garrett Gmeiner	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Tyler Ton	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Taylor Carlson	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Parker Cummings	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10

Faculty Advisor Signature: _____ Date: _____