

# Pocket Sports

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### What is the need?



- Up-and-coming sports need bigger platforms
- Many apps only focus on one end of coaching (practice plans/drills, goal setting, etc...)
  - Increases the need for multiple apps per team
- Reduce the need for multiple apps
- Fitting multiple sports on a single app
- Making it affordable for smaller teams/ communities
- Increasing limited competition for expansion/ market share

## Key Features (Coaches)

#### Set and Track Goals Effortlessly

- Create and manage goals for individuals and teams with ease, enabling clear, actionable objectives and tracking progress through engaging interactive visuals.
- Monitor achievements over time to make informed decisions and drive performance.

#### Design Your Practice Plan

- Plan your practices with precision using animated field and court views.
- Create detailed drills and plays that are easy to visualize and understand. Our drag-and-drop feature allows you to build and organize your practice sessions seamlessly.
- Share your comprehensive practice plans with your team to ensure everyone is on the same page and ready to excel.

#### • Execute and Analyze Practice Plans

- Implement practice plans confidently and monitor progress in real-time.
- Record player statistics and track time spent on each drill to gain valuable insights into individual and team performance.
- Use this data to assess progress toward goals, identify areas for improvement, and refine strategies



## Key Features (Players)

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#### Create Goals and Monitor Progress

- Elevate performance seamlessly, blending goal-setting and progress tracking. Set ambitious targets and monitor achievements with a sleek, interactive dashboard.
- Enjoy real-time updates and dynamic visuals that keep motivation high and provide sharp insights for continuous improvement.
- Reach new heights and stay ahead of the game!

#### Be Ready to Practice

- Stay organized with a calendar view that lets players see their daily practice schedule at a glance.
- Easily track practice times, locations, and focus areas to ensure you're always prepared and on top of your game.

#### Review Practice Results

- Get instant access to detailed results and stats right after practice.
- See performance metrics and coach feedback to understand your strengths and areas for improvement.

### **Novel Features and Functionalities**



 Practice Plan creation, execution, and goal setting with performance monitoring all in one location

Many apps only focus on one end of coaching

 Allows teams to reduce the number of apps needed and puts everything in one place

## Algorithms and Tools (Web Application)



#### **Ability to view player's current performance**

React & Chart.js for displaying performance data, Node.js with express to handle backend,
 MongoDB database

#### Ability to create and track goals for both individuals and team

MongoDB database to store all the goals, Schema to format data, Post-request data from frontend

#### Ability to create a practice plan

 Utilization of web sockets in order to create plans, Web sockets are used to create collaborative tools, WS package to install

#### Ability to execute a practice plan

• React for frontend, Node.js with express to handle backend, MongoDB for database

## Algorithms and Tools (Project Management)



#### **Jira**

Project management

#### **GitHub**

Code repository, Hosting Website, Code reviews

#### **Git**

Intermediate with local and remote branches, Pushes branch to GitHub

#### Google Docs/Slides

Allows document collaboration

## Biggest Technical Challenges



- Plan to have the ability to view player's current performance, but need to ensure updates to a database when possible for offline modes.
- Plan to have the ability to create and track goals for both individuals and teams, but need graphically pleasing charts.
- Plan to have the ability to create a practice plan, but need custom play/practice plan
  creation from different users simultaneously and to save previous plays to continue working
  on it at a later time.
- Plan to have the ability to execute a practice plan, but need to be able to keep track of time and save and update the database when coming back online.

## Milestones

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- Milestone 1 (Sep 30)
  - Have a valid, working login with a simple user interface.
  - Create a roadmap for web socket creation
  - Create a database to store login information using MongoDB
  - Have the requirements document completed
- Milestone 2 (Oct 28)
  - Create field outline and feature for drills
  - Create, replace, update, and destroy practice plan feature
- Milestone 3 (Nov 25)
  - o Implement, test, and demo all of the features
  - Have an idea of how to train an Al model for features

# Task Matrix



Task	Garrett	Tyler	Parker	Taylor
UI with login	10%	10%	40%	40%
Web Socket Roadmap	10%	50%	20%	20%
Login Database	40%	40%	10%	10%
Requirements Doc	65%	10%	15%	10%