



# 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 Feature 1 (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.



## Key Feature 2 (Coaches)

- **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.



# Key Feature 3 (Coaches)

- **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 Feature 1 (Players)

- **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!



# Key Feature 2 (Players)

- **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.



# Key Feature 3 (Players)

- **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

- Milestone 1 (Sep 30)
  - Have the required documents completed
  - Create Database Schema
  - Create Website design
  - Create a roadmap for web socket creation
- Milestone 2 (Oct 28)
  - Have a valid, working login with a simple user interface
  - Create a database to store login information using MongoDB
  - Create and test the goal tracker feature for coaches
- Milestone 3 (Nov 25)
  - Create field outline and feature for drills
  - Create, replace, update, and destroy practice plan feature
  - Research how to train an AI model

# Task Matrix



Task	Garrett	Tyler	Parker	Taylor
Create Website design	10%	10%	40%	40%
Roadmap for web socket creation	10%	50%	20%	20%
Create a database schema	40%	40%	10%	10%
Required Documents finished	40%	20%	20%	20%