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Screen Sketches

JK_224

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Actors

Athletes/General Users have the privileges to:

- View personal and team statistics
- Modify personal information(name, sport, etc.) but not team or personal statistics(shooting statistics, make/miss chart, game information)
- View but can't modify team rosters
- Step through game analysis
- View other team statistics if public
- Create and modify individual workout statistics
- View Team workout statistics

Team Managers/Trainers have the privileges above as well as:

- Being able to modify both personal and game statistics
- Be able to modify Team workout statistics

Head Coaches/Administrators have the above privileges as well as:

- Be able to create and modify team rosters as well as elevate users to managers/trainers
- Be able to set and modify roster lineups for games
- Be able to draw visuals and plays during games

Non-Functional Requirements:

- Need to match the speed and intensity of an in-game scenario
  - Things need to load fast, and the screen/UI needs to be as minimal/intuitive as possible to make adjustments without sacrificing features
- Need to create boundaries between fans, managers, and coaches
  - Depending on the user, the experience will be much different. Admin/coaches should have full access to roster editing and changes, while managers and athletes are allowed specific privileges. Fans should be able to see statistics if made public by admin
- Needs to be maintainable, stable, and scalable
  - Statistics and data must be stored and saved securely to prevent any sort of loss in case of an app crash or unforeseen event. The growth of data needs to be maintained with the increase of teams or users.

Tables and Fields

Users:
- User Name - Primary Key
- First Name
- Last Name
- Email
- Status - Foreign Key to Status
- Log in info
- Personal workout stats

Teams:
- Team ID - Primary Key
- Name
- Location
- Icon
- Players - Foreign Key to Players Table
- Games - Foreign Key to Games Table
- Workouts - Foreign Key to Workout Table
- Overall Statistics

Games:
- Game Id - Primary Key
- Game Date
- Relevant stats we want to track

Workouts:
- Workout ID - Primary Key
- Workout Date
- Relevant stats we want to track

Players:
- User Name - Foreign Key to User
- Team - Foreign Key to Teams
- Number
- Position
- Personal statline - Foreign Key to Statlines

Individual Statlines:
- User Name - Foreign Key to User
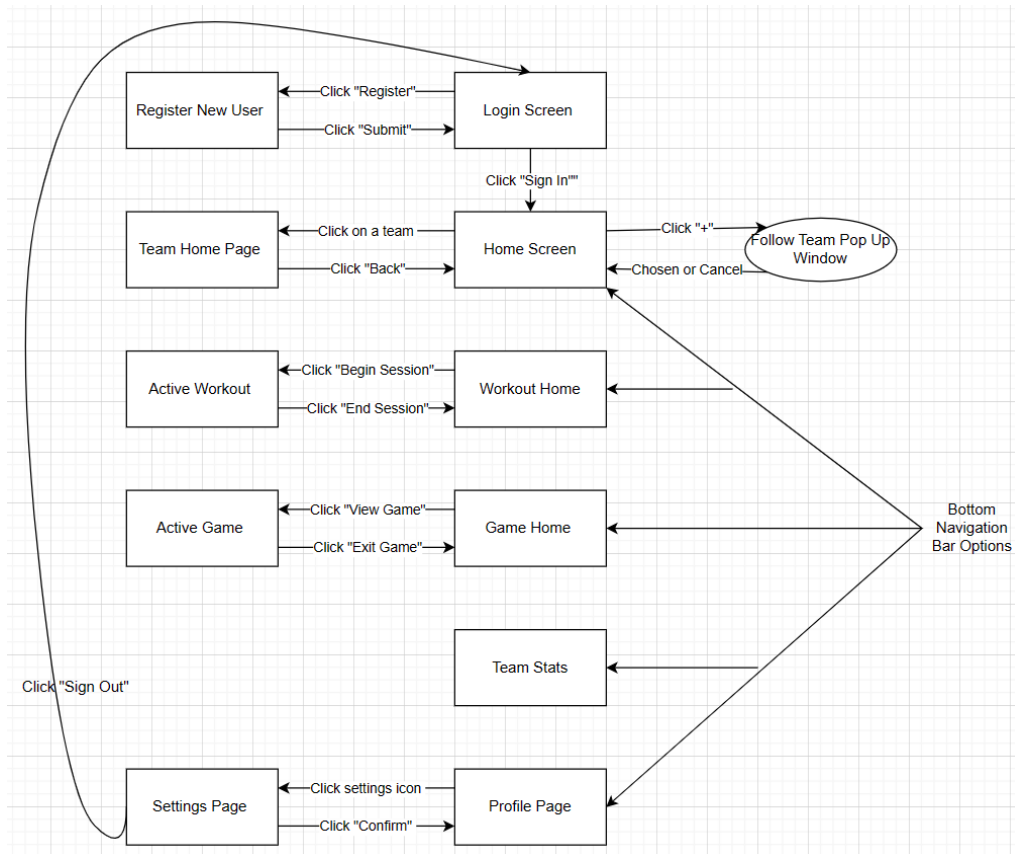- Relevant stats we want to track

Follows:
- User Name - Foreign Key to Users
- Team Name - Foreign Key to Teams

Statuses:
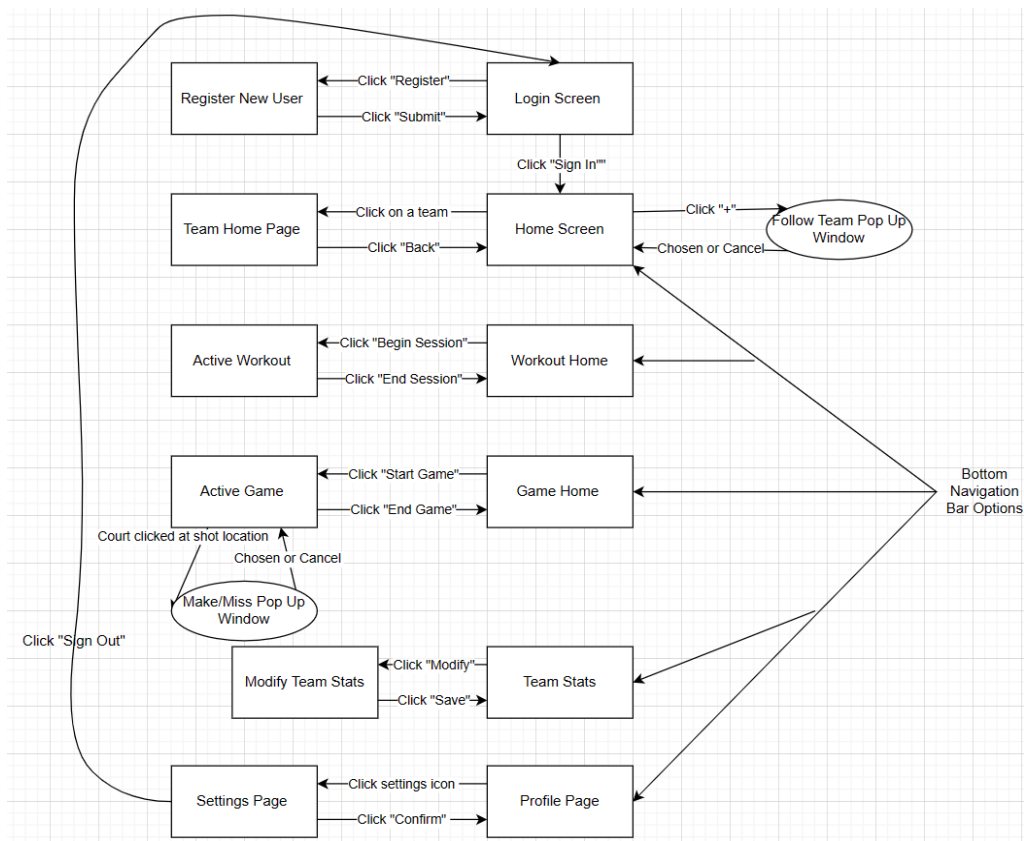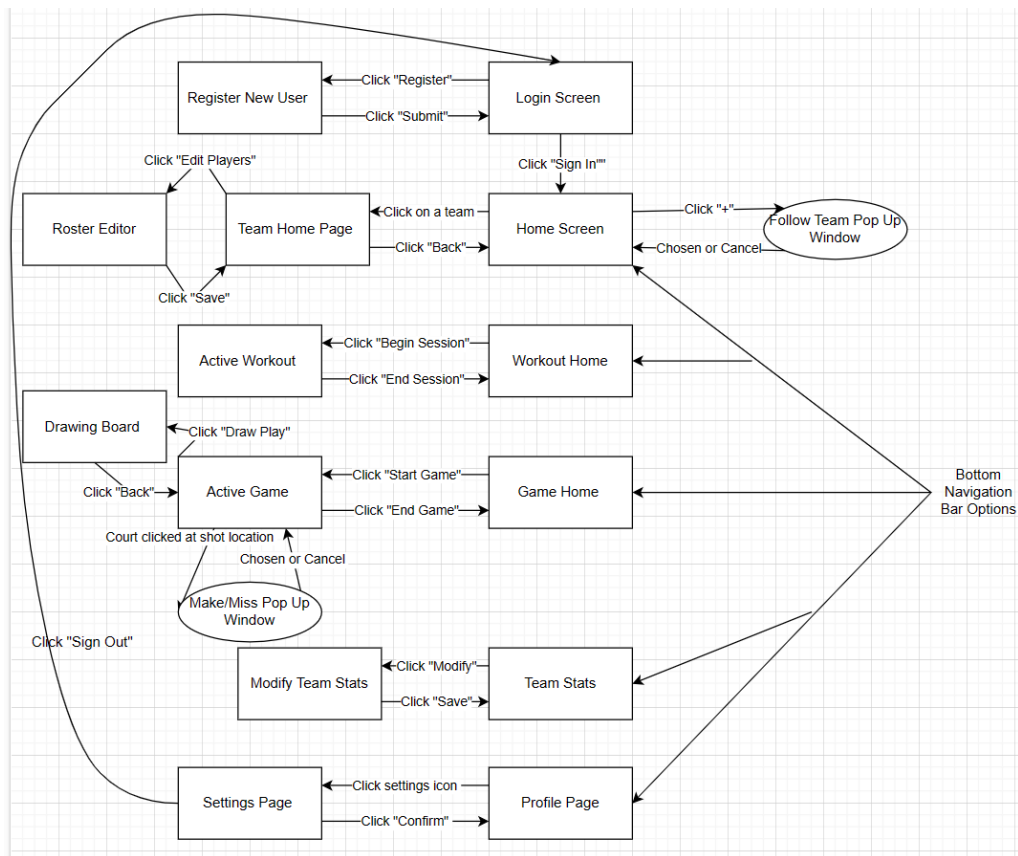- Status Types (coach, fan, player, manager)

Screen Flow Diagrams

Athletes/General Users

Register New User ←Click "Register"— Login Screen
Register New User —Click "Submit"→ Login Screen

Login Screen —Click "Sign In""→ Home Screen

Team Home Page ←Click on a team— Home Screen
Team Home Page —Click "Back"→ Home Screen

Home Screen —Click "+"→ Follow Team Pop Up Window
Follow Team Pop Up Window —Chosen or Cancel→ Home Screen

Active Workout ←Click "Begin Session"— Workout Home
Active Workout —Click "End Session"→ Workout Home

Active Game ←Click "View Game"— Game Home
Active Game —Click "Exit Game"→ Game Home

Team Stats

Bottom Navigation Bar Options

Click "Sign Out"

Settings Page ←Click settings icon— Profile Page
Settings Page —Click "Confirm"→ Profile Page

Team Managers/Trainers

Register New User ←Click "Register"— Login Screen
Register New User —Click "Submit"→ Login Screen

Login Screen —Click "Sign In""→ Home Screen

Team Home Page ←Click on a team— Home Screen
Team Home Page —Click "Back"→ Home Screen

Home Screen —Click "+"→ Follow Team Pop Up Window
Follow Team Pop Up Window —Chosen or Cancel→ Home Screen

Active Workout ←Click "Begin Session"— Workout Home
Active Workout —Click "End Session"→ Workout Home

Active Game ←Click "Start Game"— Game Home
Active Game —Click "End Game"→ Game Home

Court clicked at shot location
Chosen or Cancel
Make/Miss Pop Up Window

Bottom Navigation Bar Options

Click "Sign Out"

Modify Team Stats ←Click "Modify"— Team Stats
Modify Team Stats —Click "Save"→ Team Stats

Settings Page ←Click settings icon— Profile Page
Settings Page —Click "Confirm"→ Profile Page

Coaches/Administrators

```
Register New User  ←── Click "Register" ───  Login Screen
                   ─── Click "Submit" ──→
```

Click "Sign In"

```
                Click "Edit Players"
Roster Editor    Team Home Page  ←─ Click on a team ─  Home Screen  ── Click "+" ──→  Follow Team Pop Up Window
                                 ── Click "Back" ──→              ←── Chosen or Cancel ──
                Click "Save"
```

```
Active Workout  ←── Click "Begin Session" ──  Workout Home
                ─── Click "End Session" ──→
```

```
Drawing Board  ←── Click "Draw Play"
Click "Back" ──→  Active Game  ←── Click "Start Game" ──  Game Home
                              ─── Click "End Game" ──→
```

Court clicked at shot location

Chosen or Cancel

```
Make/Miss Pop Up Window
```

Click "Sign Out"

```
Modify Team Stats  ←── Click "Modify"  Team Stats
                   ─── Click "Save" ──→
```

```
Settings Page  ←── Click settings icon  Profile Page
               ─── Click "Confirm" ──→
```

Bottom Navigation Bar Options

(1) List of teams for a specific user

(2) This is a previous game or workout session

(3) individual team and their logo

(4) button to add a team

(5) history bar for games and workouts

(6) general navigation bar

This is the home screen of the application. This screen allows you to see your teams that you are a part of, as well as previous games and workouts. The main idea of this page is to give a simple way to access important information as well as navigate to other pages.

(1) This component will just be a list of the teams that the user either follows, coaches or is a part of. (2) this component can either be for a game or a workout. It will just display stats for previous workouts and games. Clicking it will take you to a more in depth page.(3) A card that represents a specific team. Clicking on will take you to the page of the team. (4) This is a button That will allow you to join, create or follow a new team, when you click it. (5) This is that bar that will house previous games and workouts. (6) This is the navigation bar that will be used to move throughout the app.

(1) Name of team and logo

(2) list of coaches and team staff

(3) list of players on the team, their number and position

(4) player card

(5) button to access team settings

(6) navigation bar

This page is for a specific team. In this page you can see the list of both players and team staff. You can tap on a player and see their personal stats. Here the coach can remove and add players and even change their position and number.

(1)This is just a header with the name of the team and a logo.(2) this is where the team staff is listed.(3) This is the list of players with some extra information. (4) This is the actual card, it contains a few bits of information. You will be able to tap on any player and see their personal stats.(5) This will be a button that will give you options to manipulate the team, for example adding and removing players and changing information.(6) This bar is standard on the app and allows you to go to other parts of the app.

(1) Current user.

(2) Statistics from previous sessions.

(4) All-time statistics in workouts.

(3) Begin new session.

Recent Workouts

Player Name, #1

Date	FG %	3PT %	Total Shots
09/20/23	54.2%	41.7%	240

Total Shooting Percentage: 54.2%

Total 3PT: 25/60

Total 2PT: 105/180

Total Shots: 240

Begin Session

Home   Workout   Game   Stats   Profile

This screen will be displayed as the default when in the 'Workout' tab. The information here cannot be edited. Users will use this to do shooting workouts. They can view the trends of their shooting based on previous sessions, as well as their total shooting performance across all workouts.

The current user (1) is displayed on top of the screen. Previous workout sessions (2) can be accessed here as well. The button along the bottom (3) allows the user to begin a new workout session, which will bring up the active workout session screen. The all-time statistics (4) compiled from every workout is displayed in the lower middle of the screen.

Shooting Workout

(1) Shot chart displaying current made and missed shots.

(2) Current stats of active session.

(3) Current user participating in workout.

(4) End active session.

Shooting Percentage: 50%

3PT: 0/0

2PT: 1/2

Total Shots: 2

Time: 1:29

Player Name, #1

End Session

Home   Workout   Game   Stats   Profile

This screen will be displayed during an active shooting workout session. This is where users will be actively recording made and missed shots. It is expected that a coach or partner will input the shooting performance as the player goes through a workout.

The user will be able to tap the position of shots on the court (1). Selection of whether the shot was a miss or make will also be an option, displaying either an 'X' for a miss or a circle for a made shot. The statistics of the current session (2) are displayed in the lower middle of the screen. The current user (3) is shown at the bottom of the screen on the left side. The button to end the session (4) is at the bottom of the screen on the right side. This will bring the user back out to the workout home page.
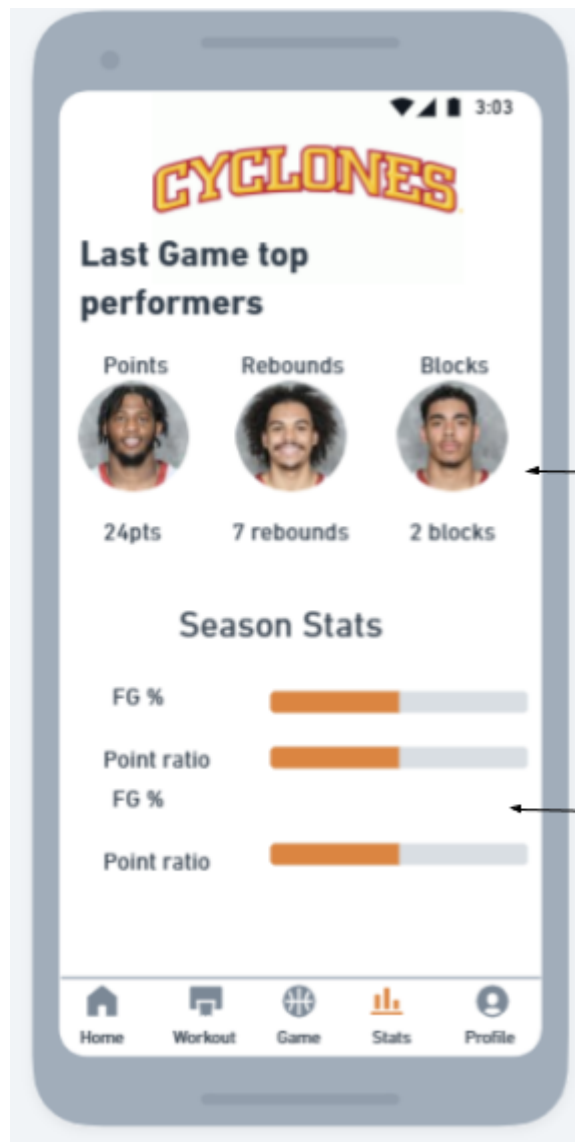
This screen is where the live game will be recorded. It displays a court view, players currently in the game, and their statistics. To record a made or missed shot, the person recording the data will simply click on the player who shot it, then click where it was on the court, and finally, a pop-up window will appear with made/miss buttons and 1/2/3 point options. Those stats will then be displayed on the screen next to their names.

The miss basket symbol(1) is a red X located where the shot was taken and missed, and the made basket symbol(2) is a green O located where the shot was taken and made. The clickable basketball court(3) is where the make-and-miss locations will be recorded, we will implement boundaries, ranges, and zones to accurately collect shot data. The clickable player icons(4) are used to record makes and misses for each player as well as sub them out for another player. Clicking a clickable player name(5) will open another screen with more information on that player's game statistics. The game player statistics(6) is where all the play statistics in that game will be displayed.

1. The back arrow is clicked to return to the main game screen

2. The selected player from the player menu is displayed at the top of the screen

4. A roster menu is provided on the left to quickly switch between players

3. Stats collected during the game are displayed on the bottom

CYCLONES

Tamin Lipsey   PG

Quick Stats

7/12 FGA
2/4 3pt

Home   Workout   Game   Stats   Profile

This screen displays the individual statistics of a player during the game. The design is meant to quickly give users key information at a glance about individual player performance. (4)The menu bar allows for quick selection to view each player's individual statistical breakdown and shot chart. (2)As shown, the selected player is highlighted at the top of the screen with their name and position.(3) The selected player's shot chart and performance breakdown is displayed using the user inputted shot data during a game. (1)The arrow at the top left allows the user to return to the active game session.

Last Game top performers

Points — 24pts
Rebounds — 7 rebounds
Blocks — 2 blocks

**Season Stats**

FG %
Point ratio
FG %
Point ratio

1. The leading performer's profile pictures are displayed at the top as well as their performance

2. Team statistics throughout the season are compiled and displayed

Home Workout Game Stats Profile

The stats tab allows users to view the top performers on a per game basis as well as team statistics throughout the season. As games are recorded, the statistics page for that team will populate with a range of useful season statistics. (1)The last game's statistical top performers will be highlighted with their profile picture on the top of the screen as well as their team leading stat.(2) As the season goes on, the season stats will provide a more accurate view of what teams excel and are deficient in. A button would allow users to view game history which would give game stats depending on the game selected
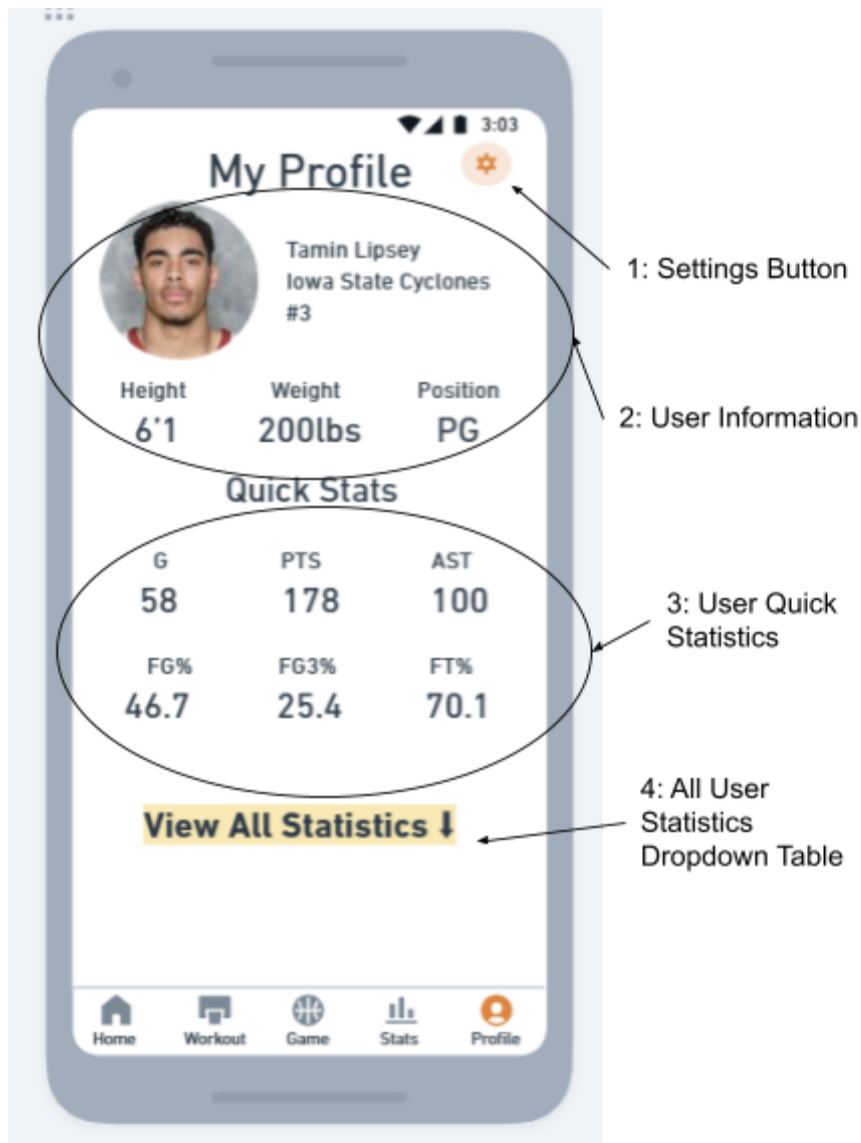
This screen is used to display the current user's information and statistics, and it's where the user can access the settings tab. The information on the screen cannot be edited from this screen. The statistics cannot be edited at all and the information can be edited in the settings tab. This screen will look how it is here for players, but for fans and coaches, it will be altered to just show personal information.

The settings button (1) is used to access and catalog of settings that the user can alter, it is also where the "Sign Out" option is located. The user information (2) can be edited in the settings tab and gets displayed on this screen. The user's quick statistics (3) displays some of the more important statistics, so it's easily accessible and updated automatically after a game is played. The all-user statistics dropdown table (4) is used to access all of the user's statistics over time.