MR. PiPS

• DOMINO COUNTER & SCORER •

INTRODUCTION

MR. PiPS will help to count and score domino games by taking a photo of the dominoes. It is designed as a play aid for domino games including Mexican Train and Chicken Foot variations. MR. PiPS is intended for recreational purposes only. Score keeping can also be done in the app, either by a single user maintaining the scorecard, or by a series of connected iPhones using the app together.

PERMISSIONS

In order to use the functions of MR. PiPS, you must give the app permission to use the camera. If you would like to customize your user picture, permission to use the photo library is needed. To create a shared (networked) scorecard, permission to use nearby networking features must be granted. The app will ask for the permission when used for the first time.

TAB BAR NAVIGATION

Start the Camera

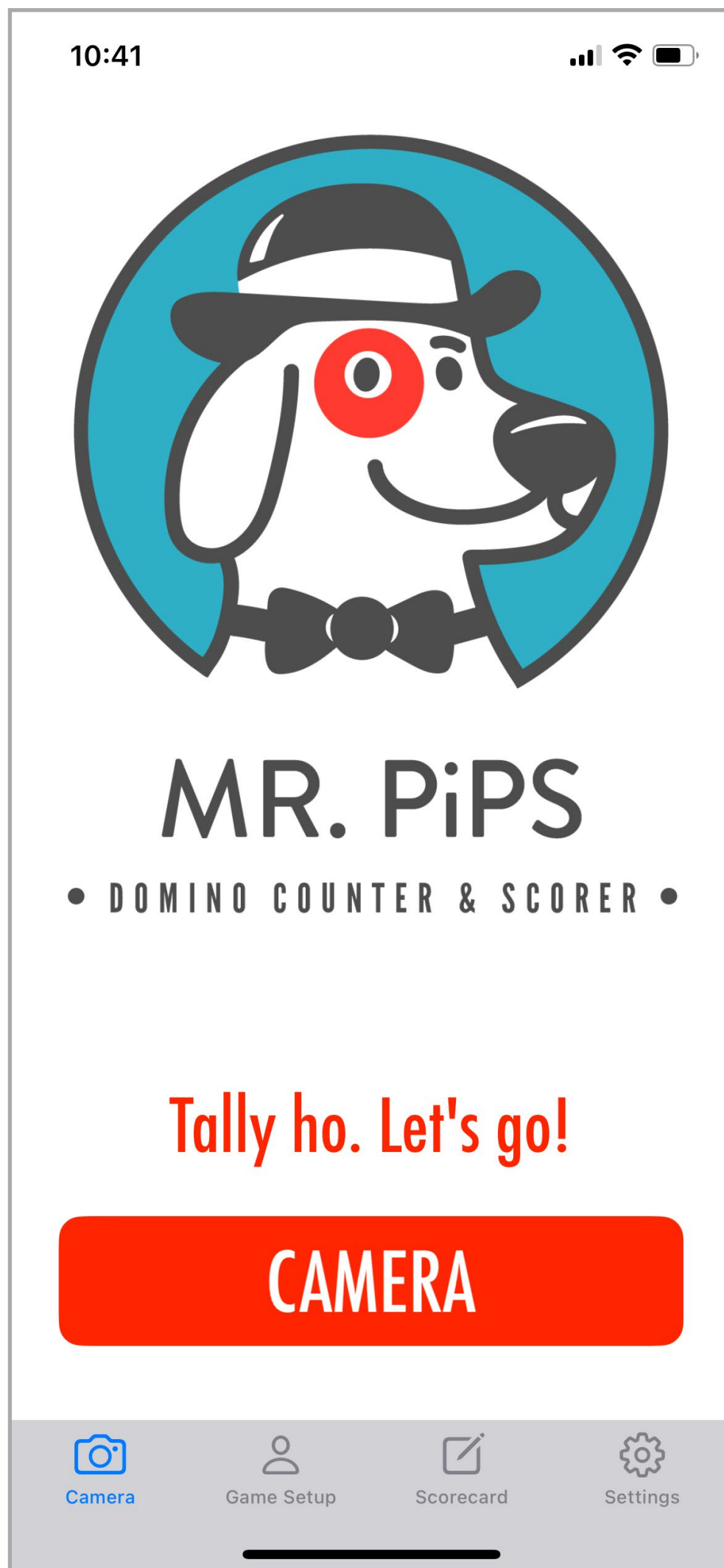Activate the camera to take an image of the dominoes to score.

Game Setup

Enter your name and a custom picture. Start a game scorecard.

Scorecard

List of players. This is where the scores are entered and tracked.

Settings Application

settings to improve comfort and accuracy.

10:41

MR. PiPS
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Tally ho. Let's go!

CAMERA

Camera | Game Setup | Scorecard | Settings

MR. PiPS is intended for recreational use only. Its use is not authorized for gambling or scoring for monetary gain.

CAMERA

Back/Cancel Button
Cancel camera mode.

Guide Grid
Teal lines indicate preferred zoom for best results. Hold camera closer to surface to make dominoes larger.

Camera Tilt Indicator
Measures the amount of tilt in which the camera is held. Keep the phone tilt indicator in the middle zone to unlock the photo capture button. The camera should be parallel to the table.

Domino size should approximate the distance between the horizontal marker lines.

Grid lines do not have to match up with the domino borders.

**BACK**

Orient dominoes upright.

Toggle Flash
Toggle flash on and off. Flash can eliminate some shadow around dominoes when detection is poor. Experiment in your conditions or best results.
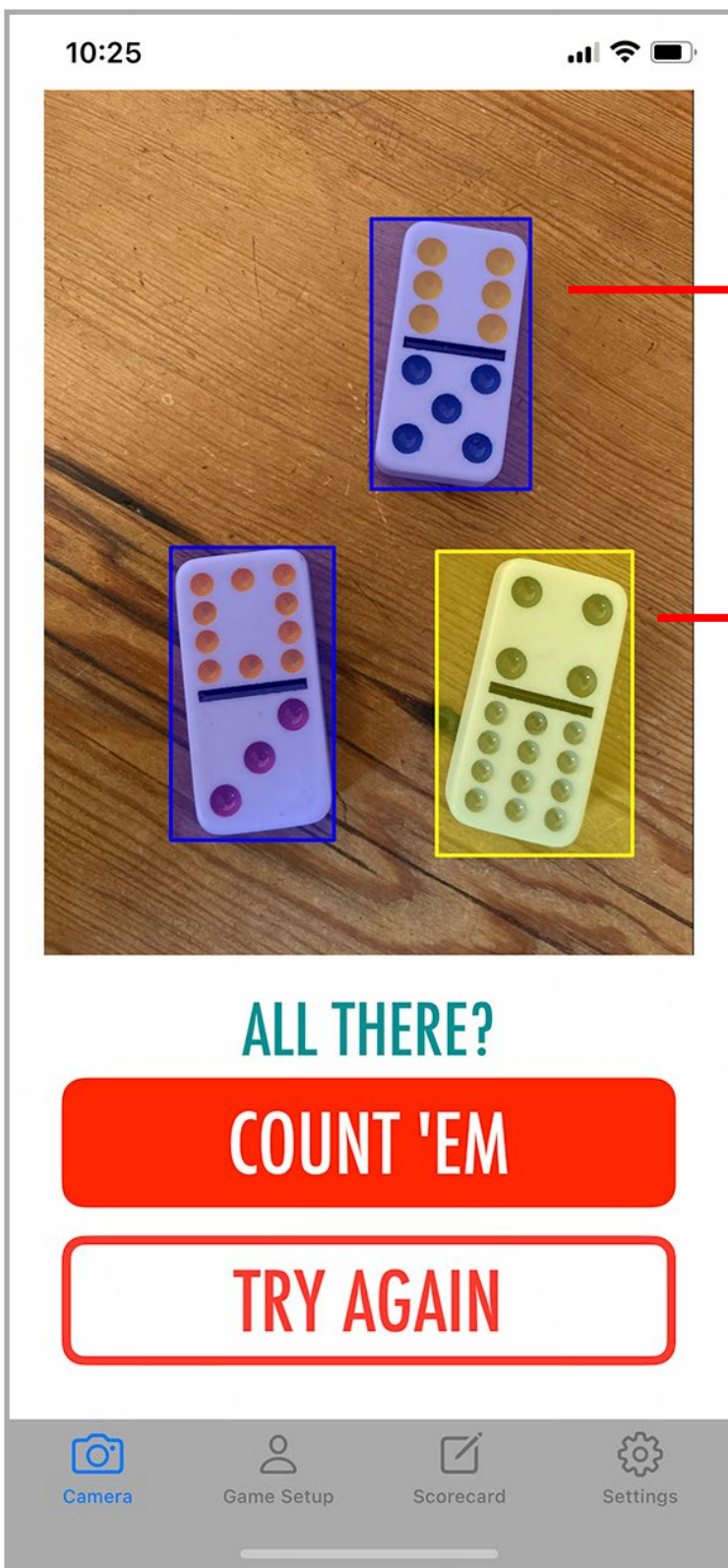
Capture Photo
Take a photo of the dominoes.

Shadow Artifact
If severe, the domino may not be detected. Turn on flash to eliminate heavy side shadows in certain lighting conditions
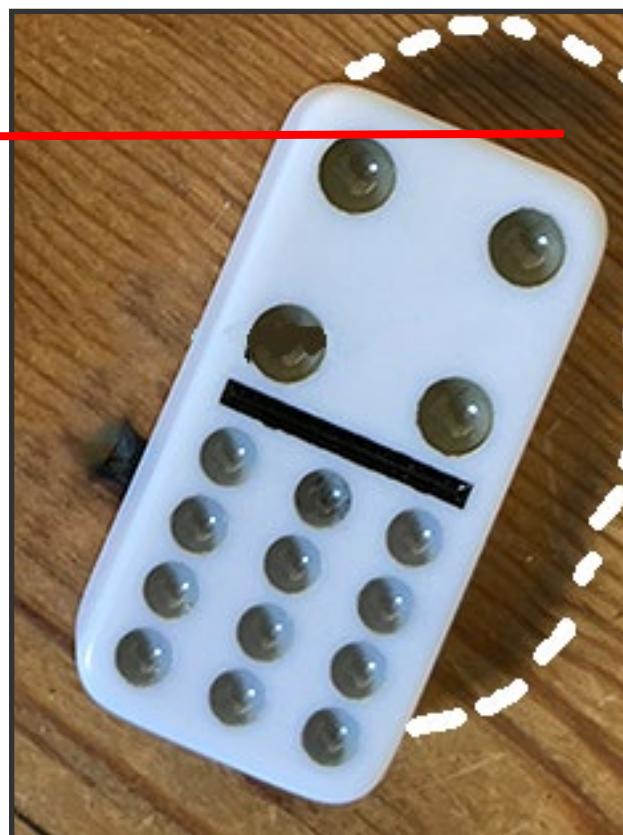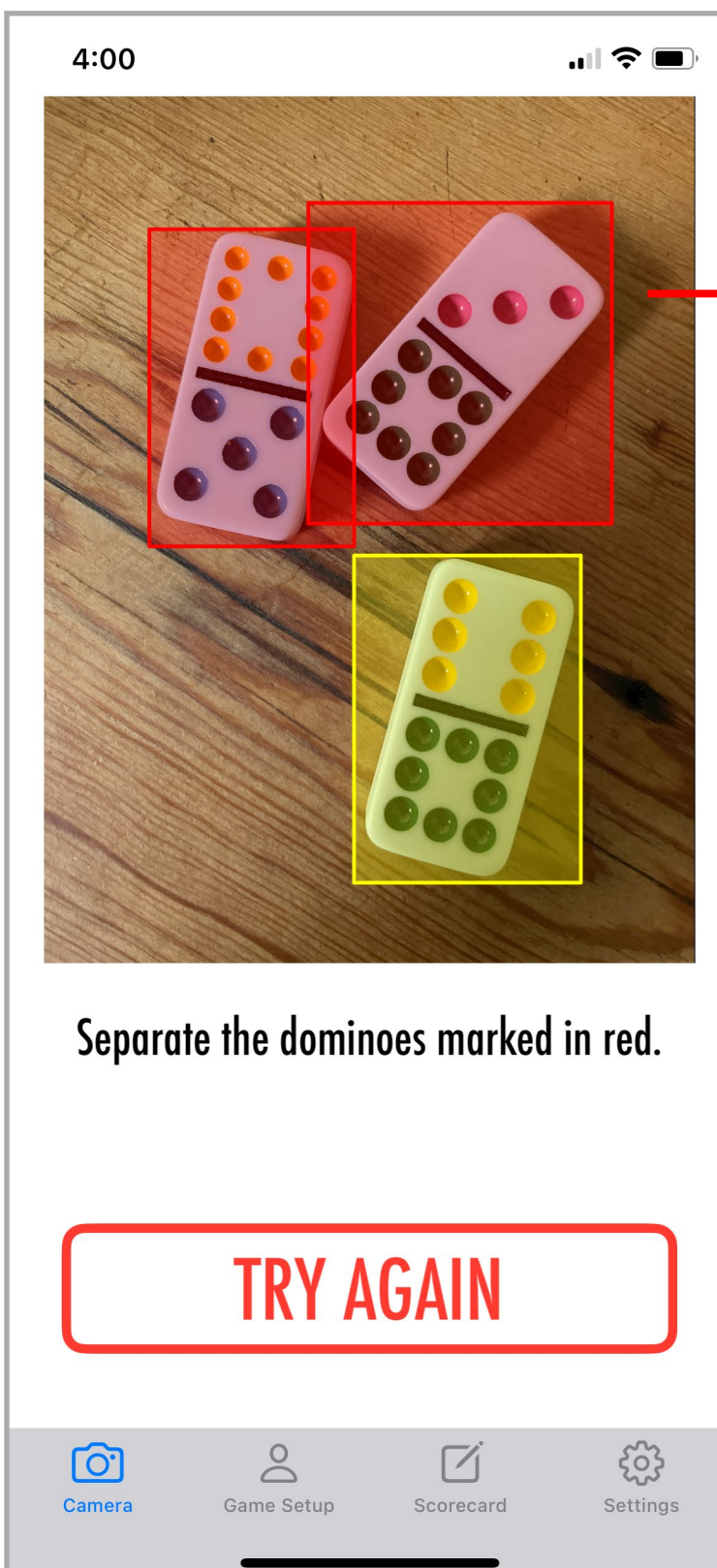
DETECTION BOXES

Blue boxes indicate upright positioning, which is best for accurate detection

Yellow indicates rotation. Sometimes this may cause inaccurate counting. The amount of rotation all wed can be set in the preferences. Rotated dominoes will be counted.

Red indicates overlap and position errors which will impact counting. Reposition the dominoes and try again. These dominoes will not be counted.

DOMINO GRID

The grid allows a quick check of each domino count. If the domino image is altered, the count may not be correct. Press the domino image to remove it from the count.

Press the **SCORE IT** button to send the points to the score-card. If you are keeping score for others, the points can be added to the correct player on the scorecard screen.
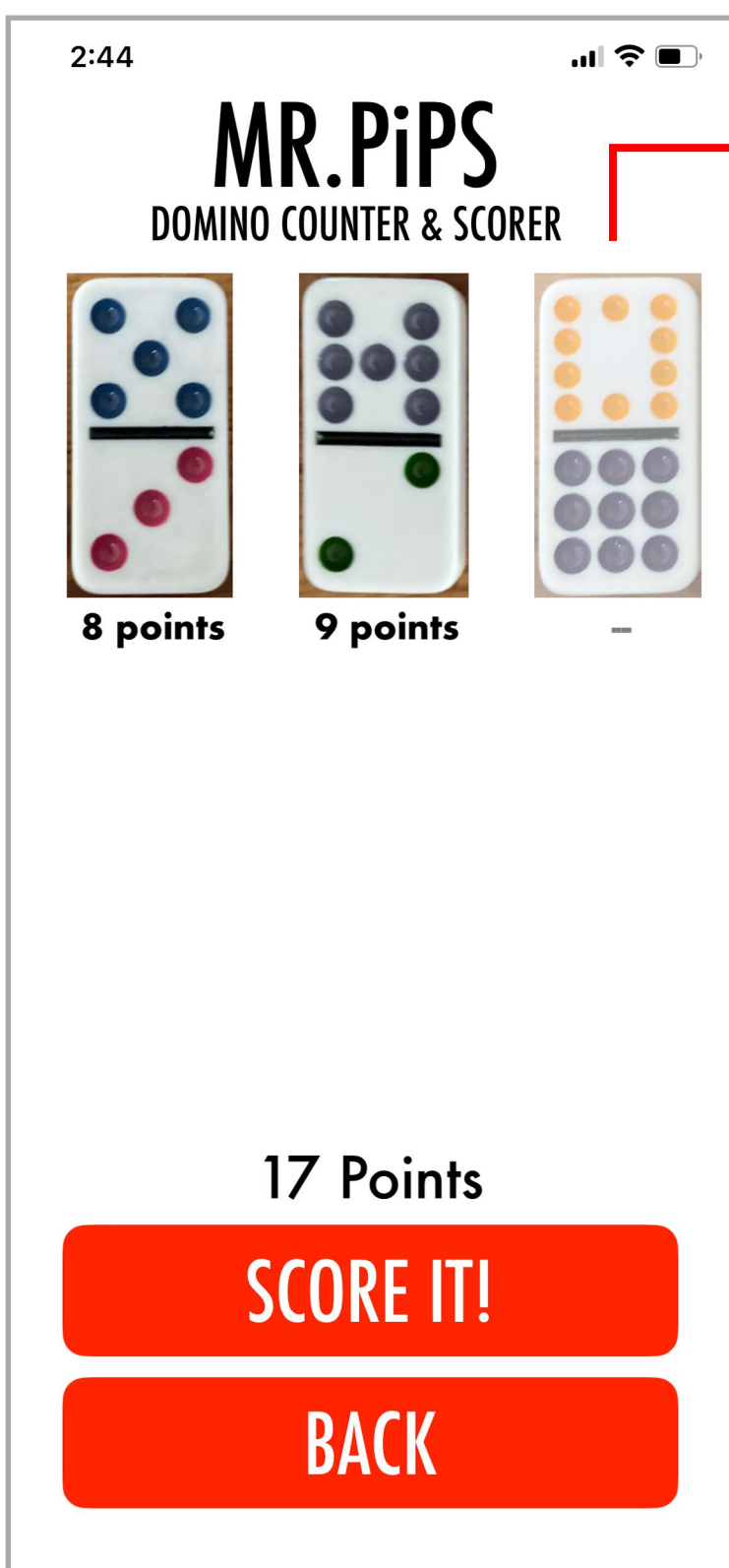
Toggle individual counting by pressing on domino image. Eliminate obviously wrong counts from the photo and retake the photo of the missed domino separately.

Press **SCORE IT** to record the displayed count for a player on the scorecard.

Press **BACK** to retake the photo of the domino group instead of scoring them.
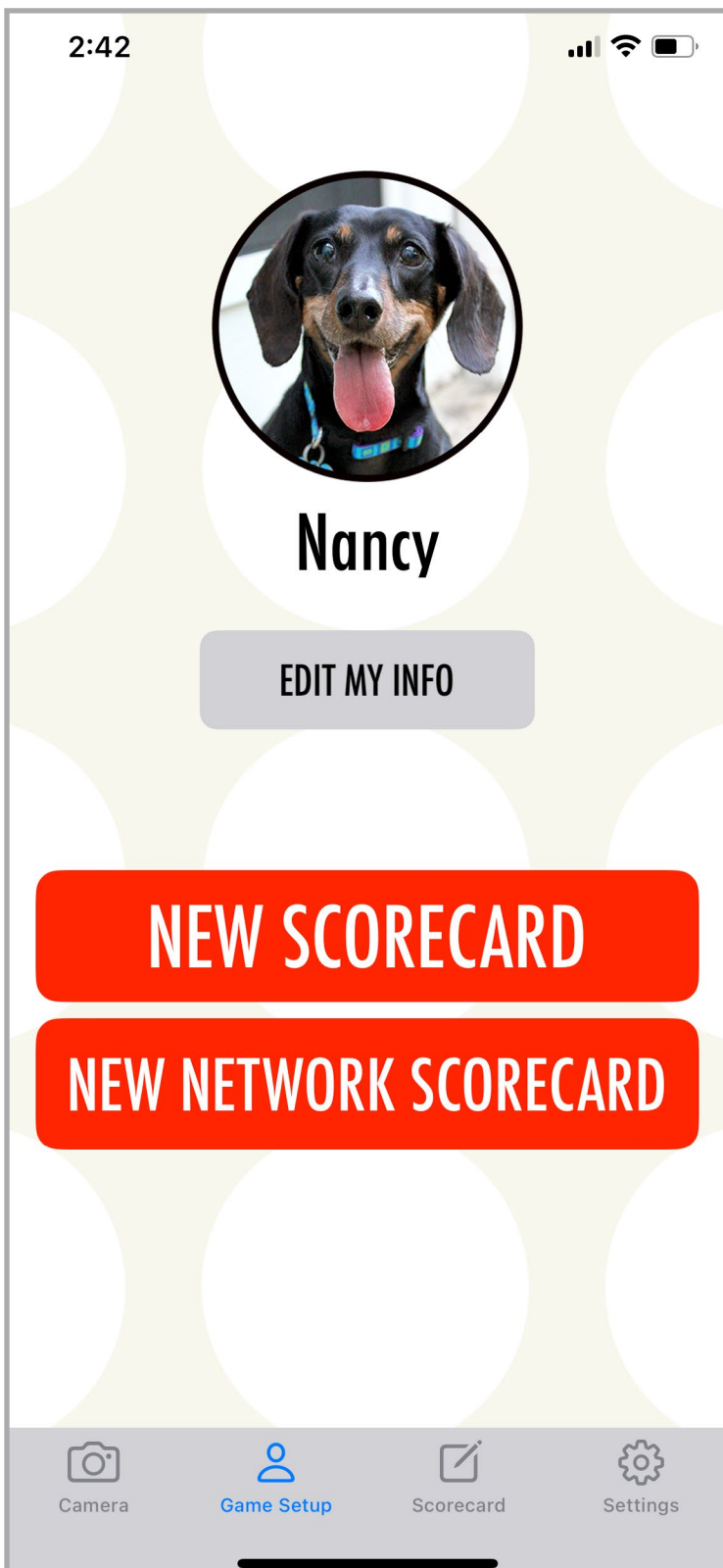
GAME SETUP

Edit your player name and customize your photo.

Scorecard creates a list of players for the game. Choose **NEW SCORECARD** to keep your own score, or to keep the score for several players on your device.

NEW NETWORK SCORECARD creates a linked game with other players who are also using MR. PiPS. Each player can enter scores, and the scorecard will update for everyone. This option requires one player to act as the host, and one or more players to join a game.

The **host player** can also add extra players to the scorecard and keep score for them. This may occur when some players do not have a compatible device or are not using the app.

Joined players may also help keep score for those added players. Any time the score-card changes, it will update on all connected devices.

If a game is in progress, a warning will be issued before a new scorecard can be started.

HOST SCORECARD

1. Nancy

2. Dan   Refuse

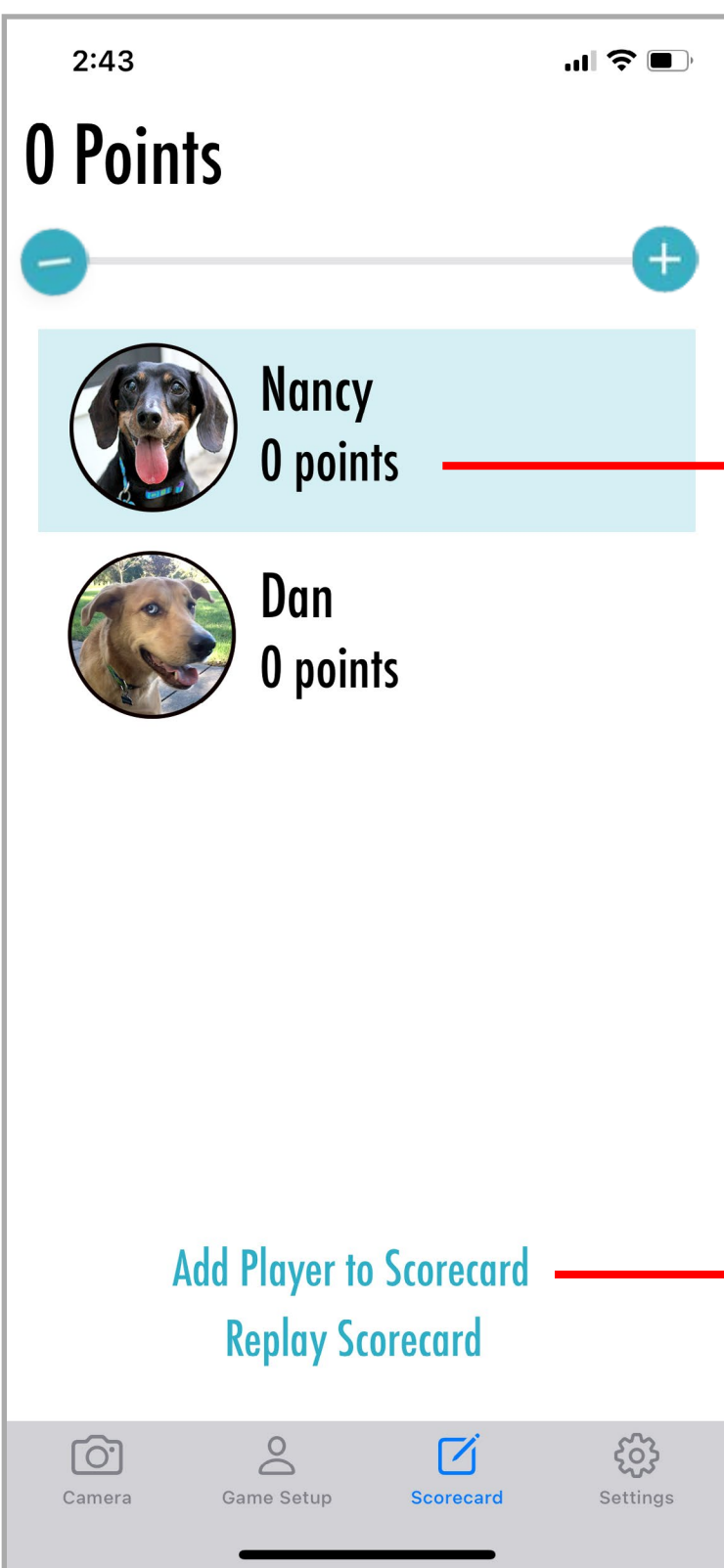Finding players...

CANCEL   START GAME
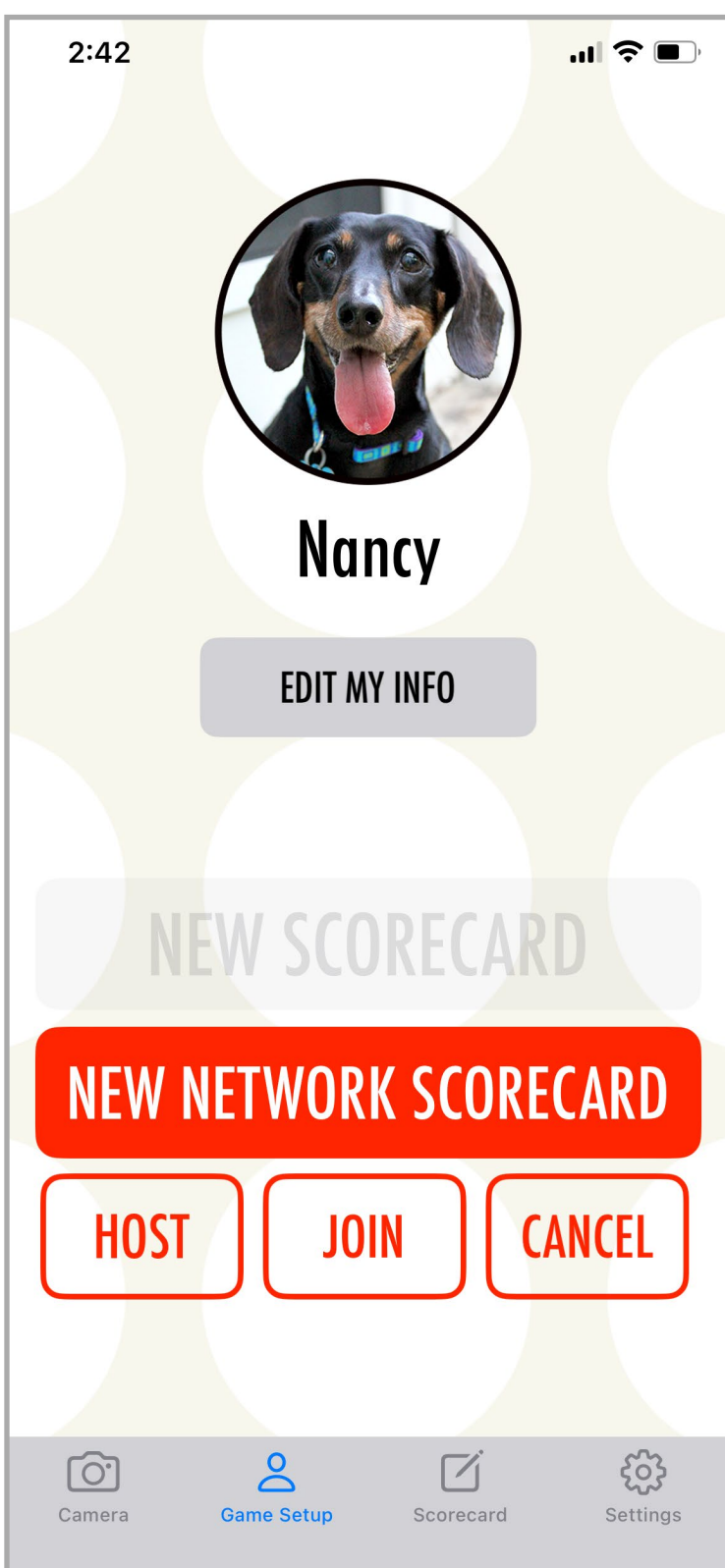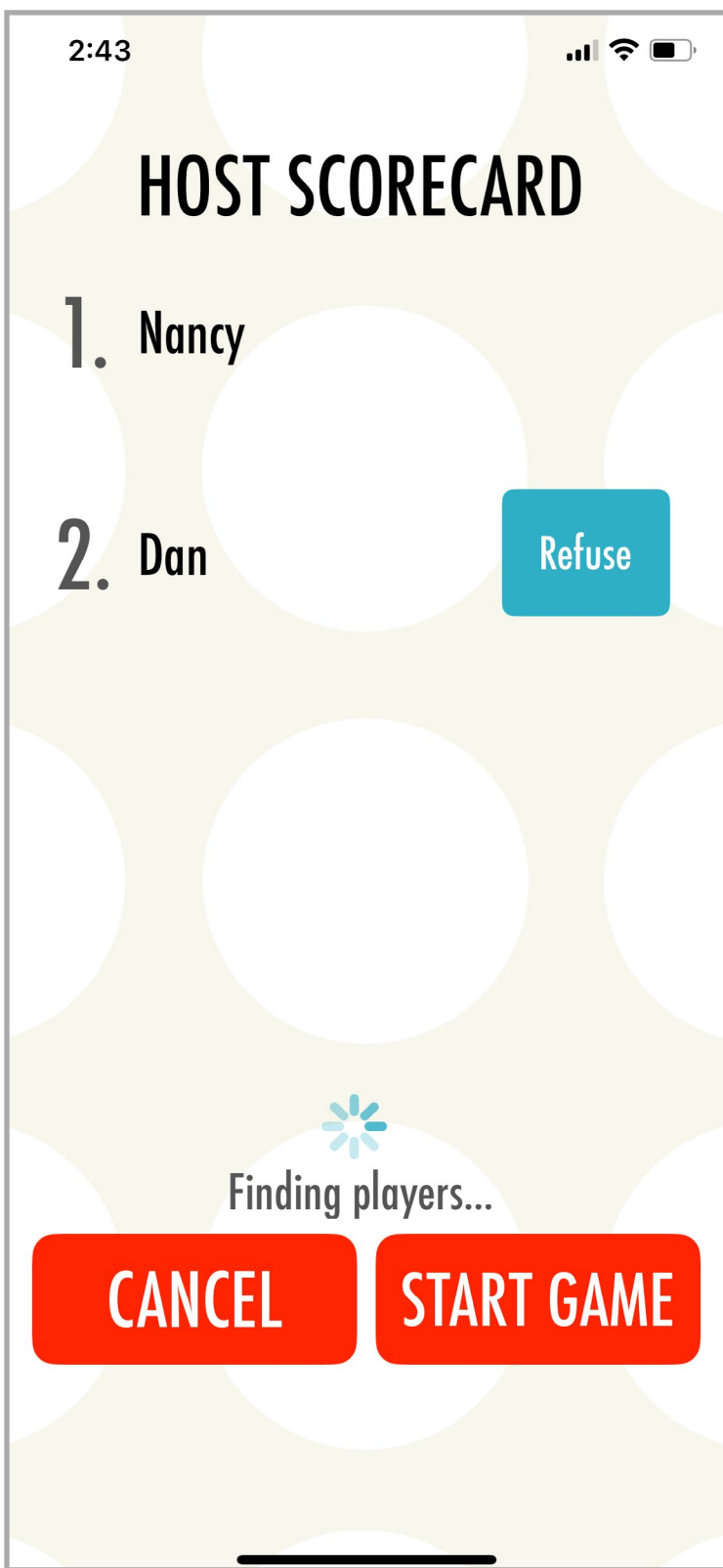
There is only one host per scorecard. A list of players wishing to join the game will appear on the host screen.

Click **REFUSE** if you wish to exclude a player from the game. That player will be notified.

START GAME when the list reflects allof the players you wish to include in the match. The host device will continue to look for nearby players until a game is started.

Adding new players can be done once a scorecard is started.

0 Points

Nancy
0 points

Dan
0 points

Add Player to Scorecard
Replay Scorecard

Camera   Game Setup   Scorecard   Settings

SCORING

Any connected player can place scores for another player. Click the player in the list. The player row will highlight in blue and a plus sign will appear. It is suggested that each player enter their own score, and the host be responsible for placing the score of players who are not using their devices.

Only the host player will have the option f adding new players to the scorecard.

PiPS Indicator

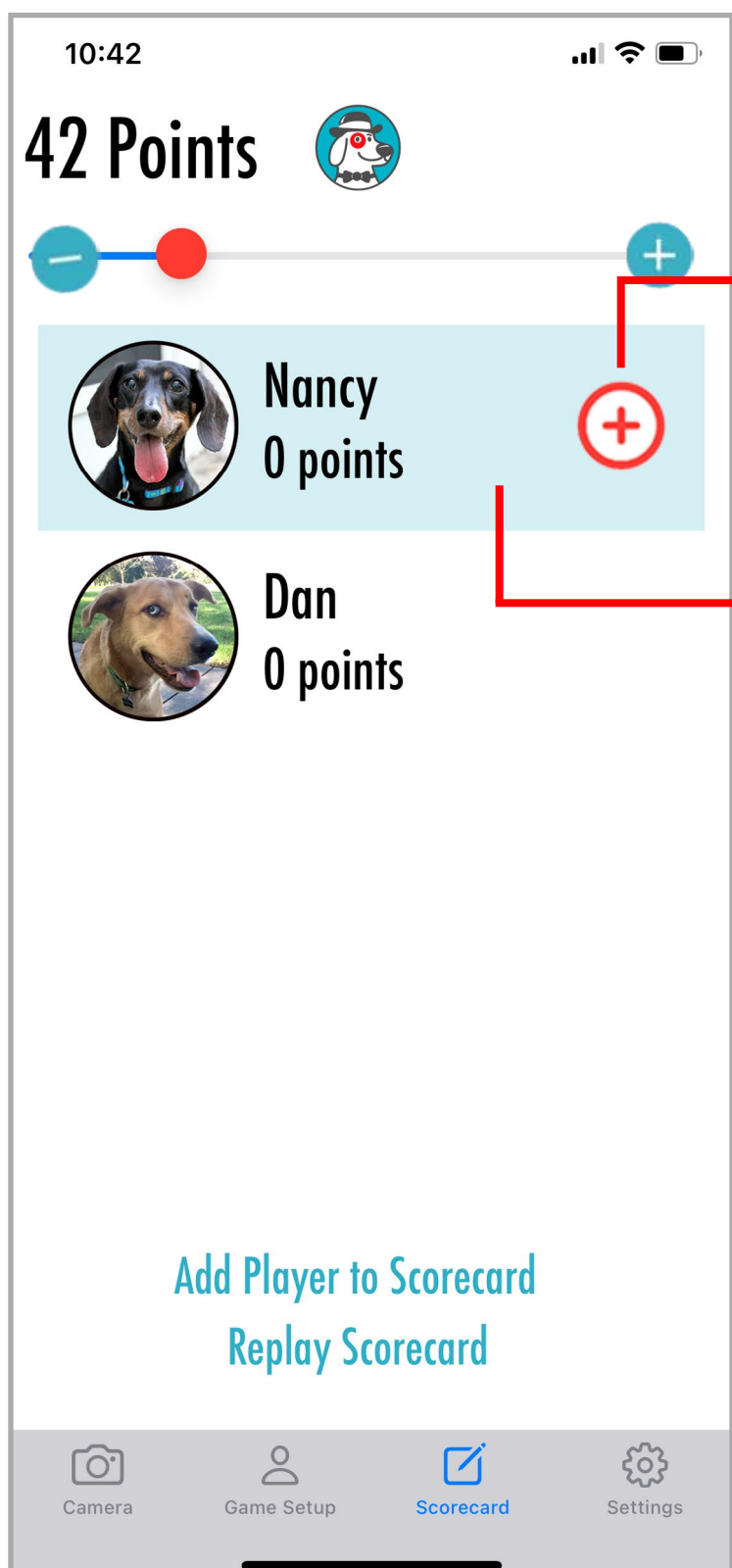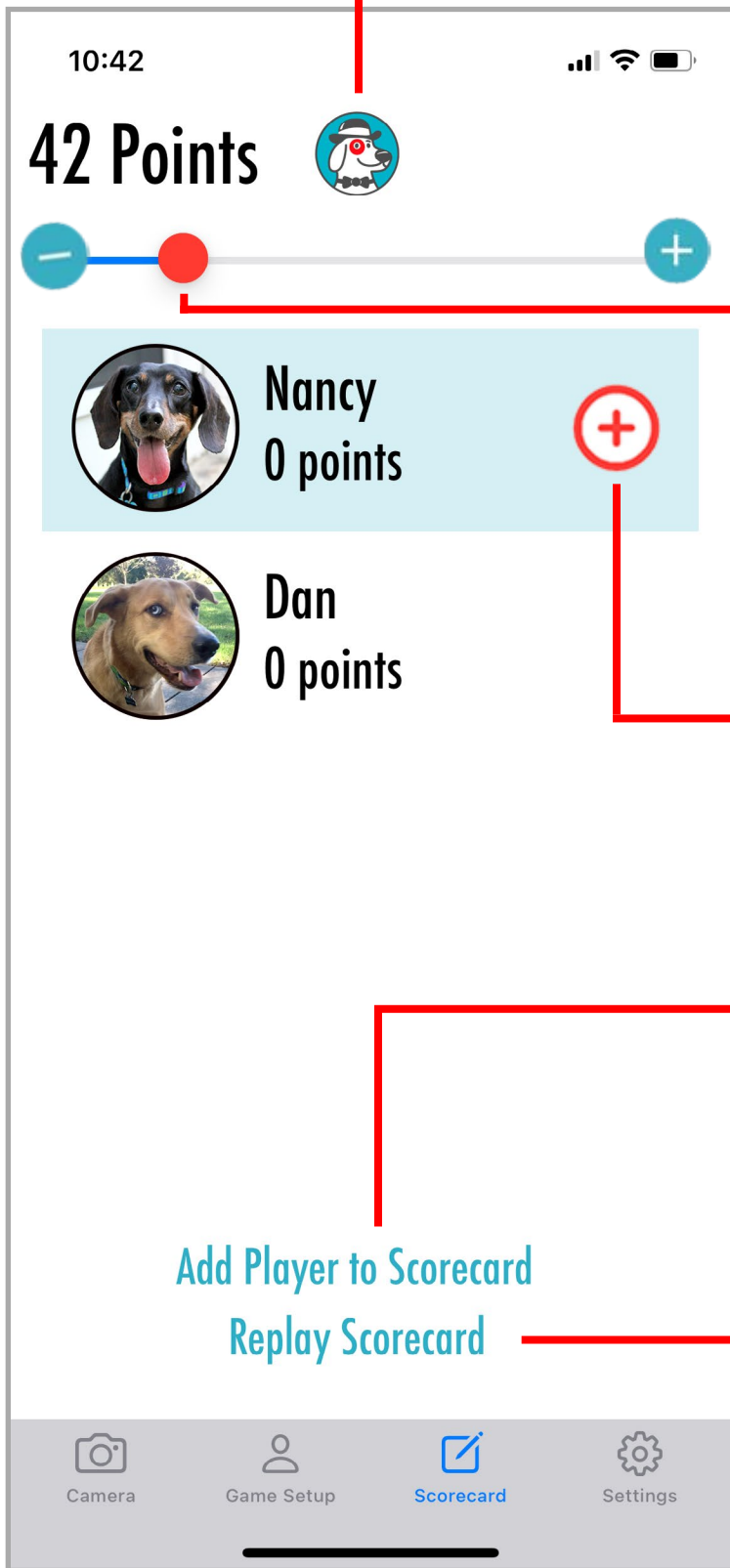When displayed, score slider reflects the calculated points.

Point Slider

Change score or add points to a player without taking a photo of the dominoes.

Highlight player and press **+** to add points.

Add a player to the scorecard. In networked games, only the host player will have this option.

Set all scores to zero, keeping the current player list.

10:42

42 Points

Nancy
0 points

Dan
0 points

Add Player to Scorecard
Replay Scorecard

Camera   Game Setup   Scorecard   Settings

Add points to the highlighted player.

Double tap on the player to open the expanded scorecard.

10:42

42 Points

Nancy
0 points

Dan
0 points

Add Player to Scorecard
Replay Scorecard

Camera   Game Setup   Scorecard   Settings
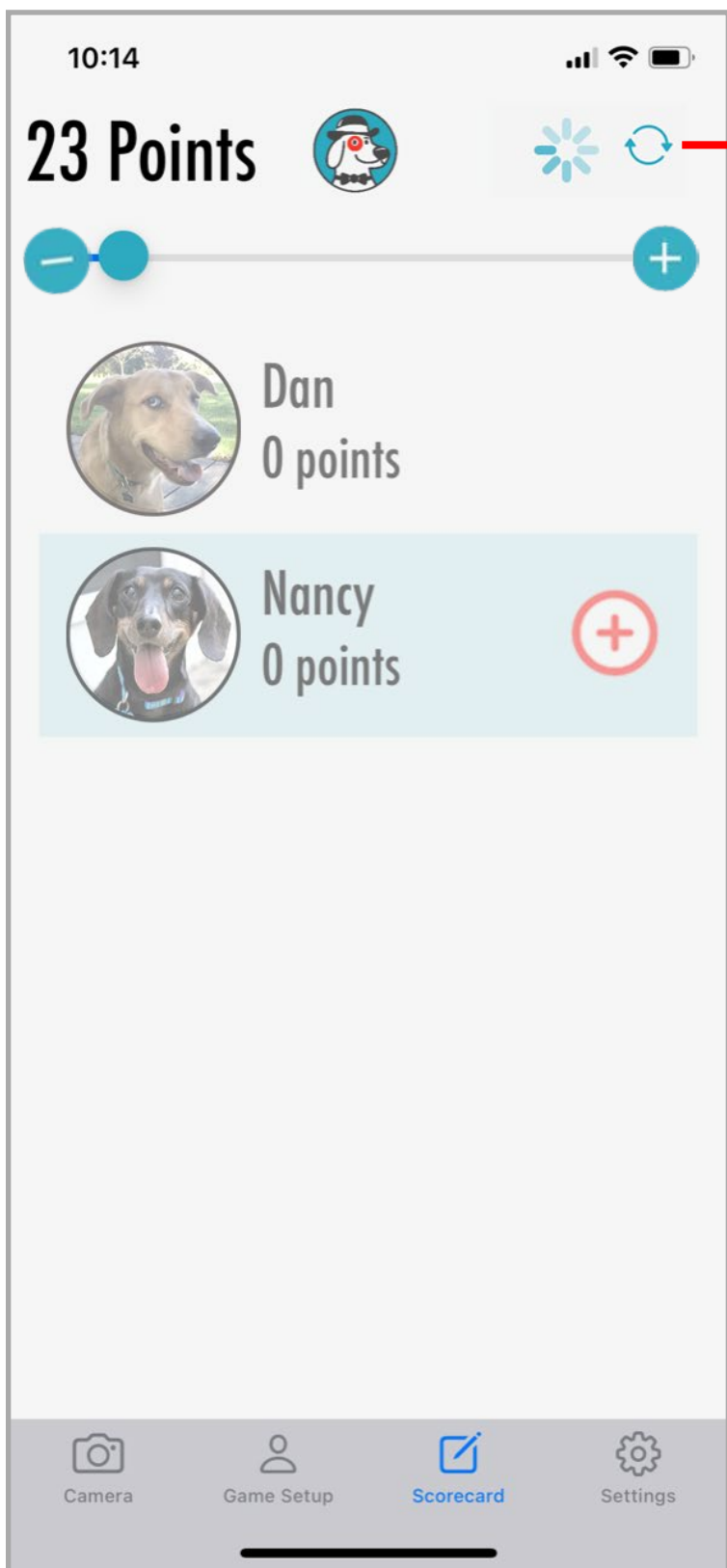
Shared Scoring

In a network game you cannot record your score unless the host player has the MR. PiPS app open and active. The scoring screen will be grayed out, as shown, until the host player activates the app. Once the connection is reestablished, then you may record your score.

Hit the refresh button if the scores are out of sync or if your screen remains grayed out when the host is active.
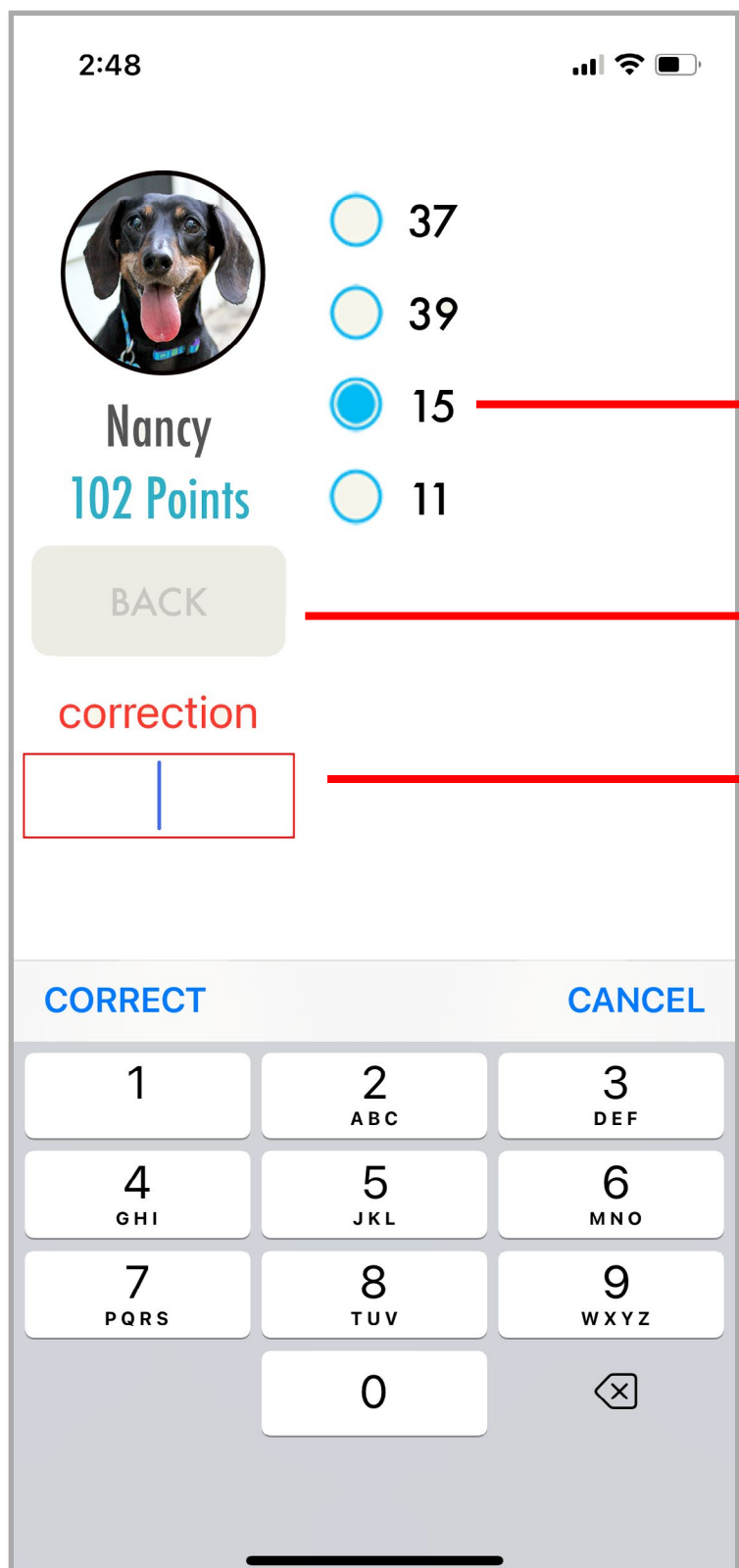
Expanded Scorecard

This screen displays a list of recorded scores for a particular player. It allows individual scores to be corrected.

Tap the bullet if you want to change or correct a score.

Return to the scorecard.

Use keypad to make a correction. Enter the correct score for that round.

PREFERENCES TAB

PREFERENCES

Rotation Allowed
Allow rotated dominos to be counted.

| YES | NO |
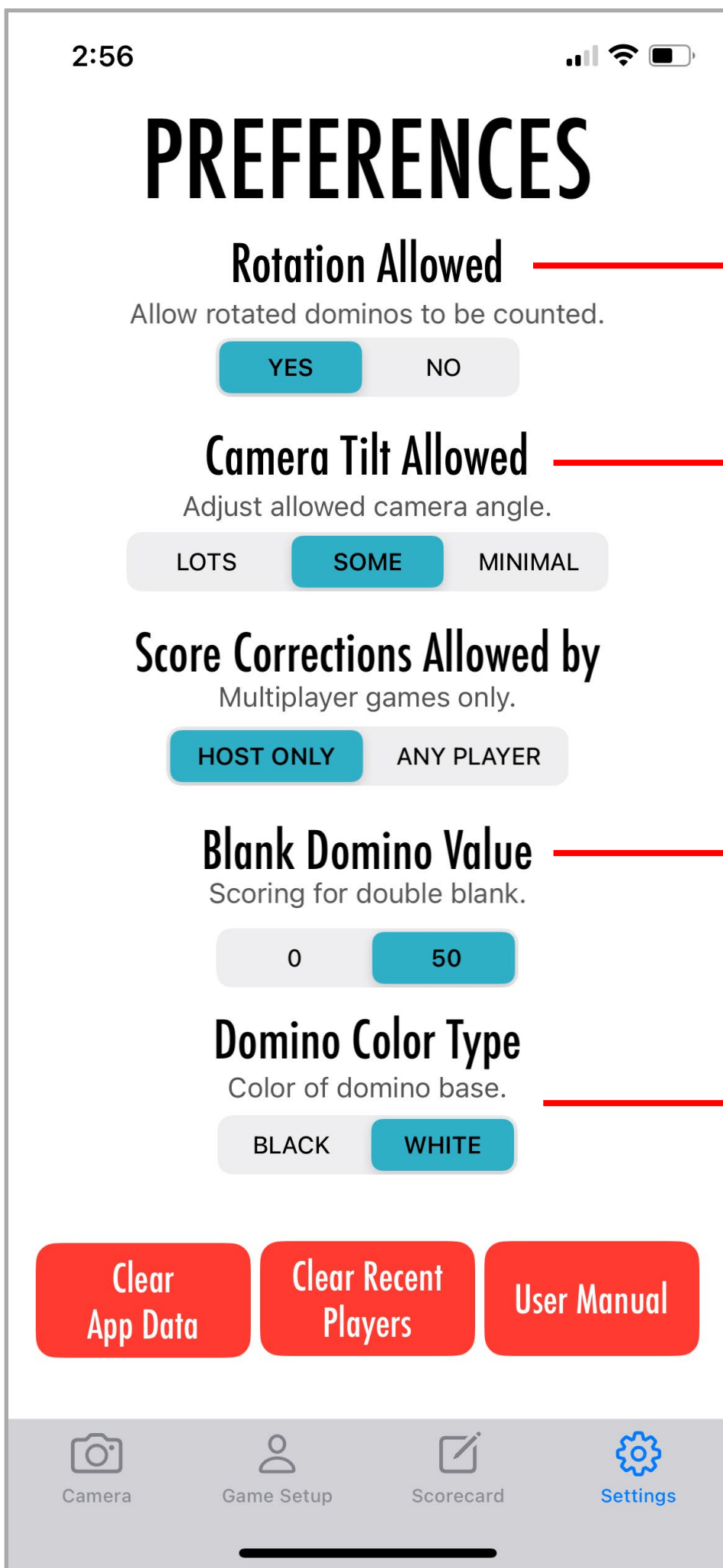
Change the amount of domino rotation allowed. Straighter dominoes are counted more accurately.

Camera Tilt Allowed
Adjust allowed camera angle.

| LOTS | SOME | MINIMAL |

Change the tilt all wed. Camera angle can affect accuracy. Find a balance between comfort and precision.

Score Corrections Allowed by
Multiplayer games only.

| HOST ONLY | ANY PLAYER |

Blank Domino Value
Scoring for double blank.

| 0 | 50 |

Change the point amount of the double blank domino.

Domino Color Type
Color of domino base.

| BLACK | WHITE |

Setup for the type of dominoes you are using.

| Clear App Data | Clear Recent Players | User Manual |

CLEAR APP DATA will delete your player name and picture which is normally saved within the app.

CLEAR RECENT PLAYERS will delete all players from the saved recent player list.

| Camera | Game Setup | Scorecard | Settings |

CAMERA TIPS

- Arrange dominoes upright with space between them. Dominoes should not be touching.

- Hold the device in one hand with the thumb near the camera button. If domino detection is poor, try tilting the camera or moving it closer or farther from the dominoes.

- Harsh overhead light and reflective surfaces can cause detection problems. Try a different part of the table or surface or toggle the flash on/off.

- Toggle the flash on if the dominoes are casting a shadow on the playing surface. In most lighting conditions, toggle the flash off for best results.

- Severely worn dominoes or artificial marks on the bones can cause counting errors. Most day to day wear should be fine.

- White dominoes should be on a darker surface. Black dominoes should be on a lighter surface.
Non textured and plain background surfaces work best.

- A paper towel works well for black domino background.

- Incorrectly counted dominoes can be excluded from the total on the domino grid screen. Retake a photo with the missed domino and add the points separately.

Experiment and have fun!

NETWORKING TIPS

○ When joining a game, you must wait for the host to start the game.

○ Ensure wifi is enabled on the device.

○ If the app does not connect to a scorecard, the host and joining players should cancel and start again.

○ Ensure the **host** player has Mr. PiPS open so you can record your score.

PRIVACY TIPS

○ You must give permission to use the camera.

   iPhone > Settings > Privacy and Security > Camera and turn "on" for MR. PiPS on your device

○ For network scorecards, you must give permission to use local networking.

   iPhone > Settings > Privacy and Security > Local Network and turn "on" for MR. PiPS on your device.

○ These settings can also be changed via:
   iPhone > Settings > MR. PiPS on your device.

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Version 2.0