

# User Manual

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## Introduction

The chessMATE is an IOT platform that will provide the grand usual chess board experience to those that need online chess. Our product consists of two main sections; an electrically powered chessboard (Smart chessboard) and a mobile app. The main game mode we offer to our clients is the Board Vs Board game mode. Further, the Board Vs App and App Vs App game modes can be experienced by the chessMATE clients.

### The vision of the Product:

The vision of chessMATE is to add a cool online chess game experience to the everyday lives of people. Our endeavour is to give people more human experience with the new next-generation technology.

For more details visit our [website](#).

## Content of the Package

The package you bought should contain the following items,

- 1 smart chessboard
- 1 set of chess pieces with magnetic bases
- 1 high-quality USB cable
- 1 USB power charger
- 1 user manual (this manual)

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## Components of Chessboard

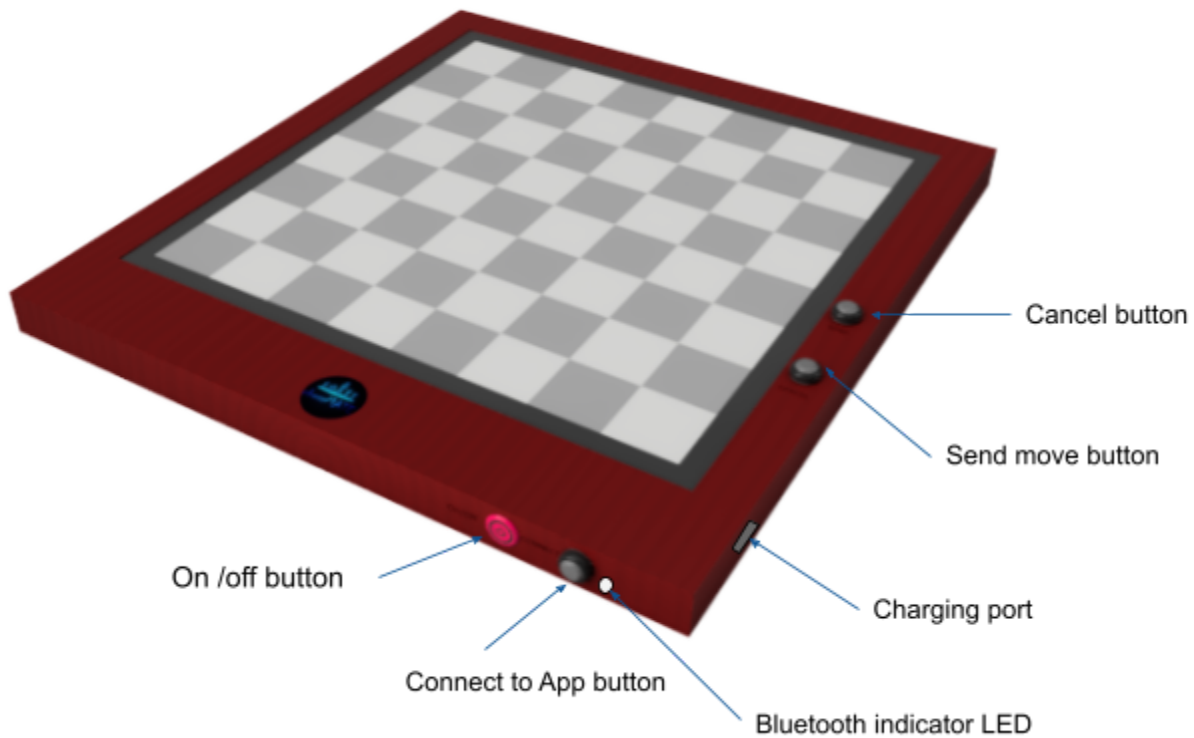


Figure 01: ChessBoard Components

- On/Off button - power on and off of the smart chessboard
- Connect to app button- to turn on and off the Bluetooth of the smart chessboard
- Send move button - to send a movement done by you to the opponent player
- Cancel button - to cancel a movement (if you did an unnecessary movement)

## Connect with the Platform

Follow these steps to connect to our platform

- Download the app from the Play Store
- Create your chessMATE account
- Login to your account
- You can log in using your Google or Facebook accounts
- You can reset the password if it is forgotten

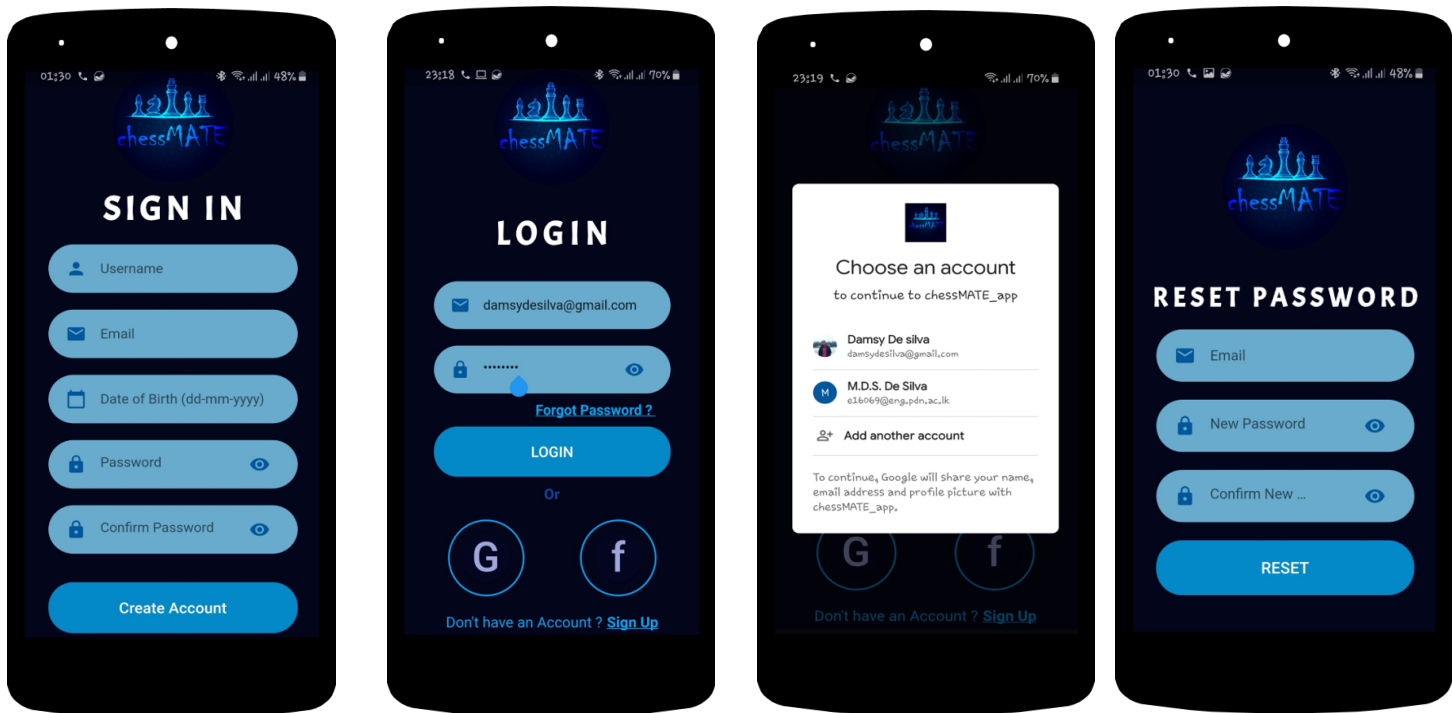


Figure 02: Interfaces for SignIn & Login

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## Community Selection

You can play games with players within a community.

You have the following options in using communities

- Create a new community
- Join an existing community - This will prompt a list of existing communities
- Stay in the current community
- Leave the current community - After leaving you'll have the options of creating or joining a community
- If you haven't created or joined a community, you will be in the default community

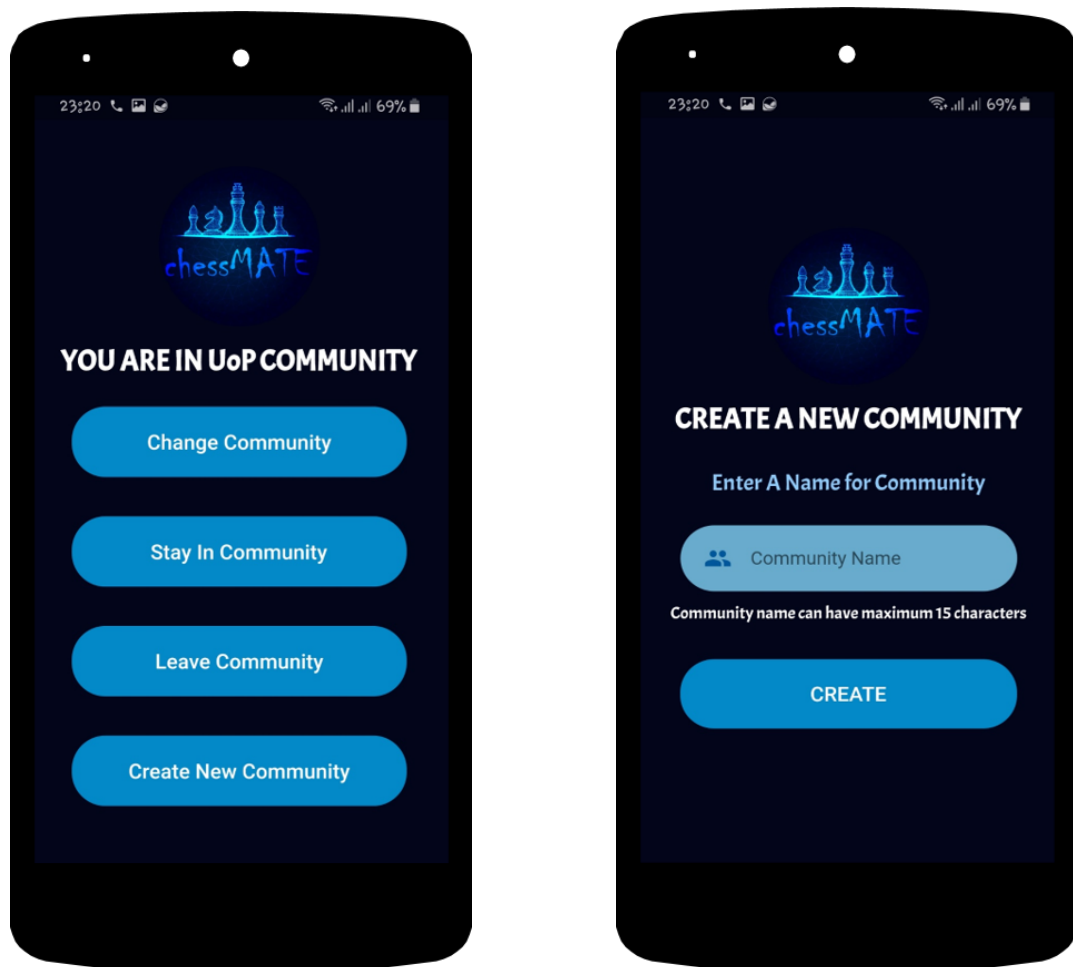


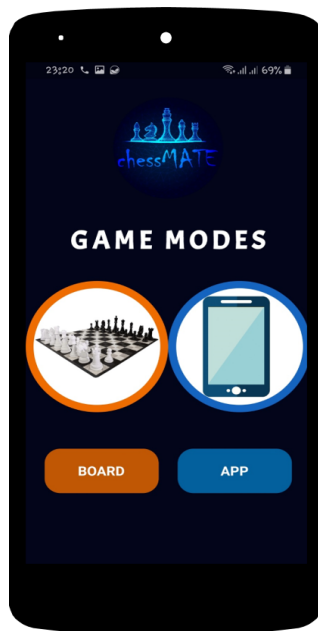
Figure 03: Interfaces for Community Option

## Chessboard Configurations

- If the battery is not fully charged it may be necessary to charge it before you use the Bluetooth functionality of the chessboard.
- To charge the battery, use the USB cable & power adapter included in the box. Keep charging until the board is fully charged.
- After pressing the Power button, the board will automatically switch on.
- Press the “Connect to app” button to connect to your app.
- Set up the chess pieces in their starting positions.

**Important:** The detection of the magnetic chess pieces is done by electromagnetic resonance. This means that the proper functioning of the chessboard may be influenced by external electromagnetic fields. Such fields can be caused by devices with magnets or coils. Also, strong RF transmitters within the board area may cause incorrect piece detection or “ghost pieces” and as such impact the result of your chess game.

## Game Mode Selection



### App Mode

Do not need any special configurations

### Board Mode

Turn on Bluetooth on your phone

**Important:** It is not possible to define the maximum distance between your board and mobile phone due to various parameters like building construction, magnetic fields or other wireless devices that may disturb the Bluetooth connection of your board. Normally a distance less than 10 meters should cause no problems.

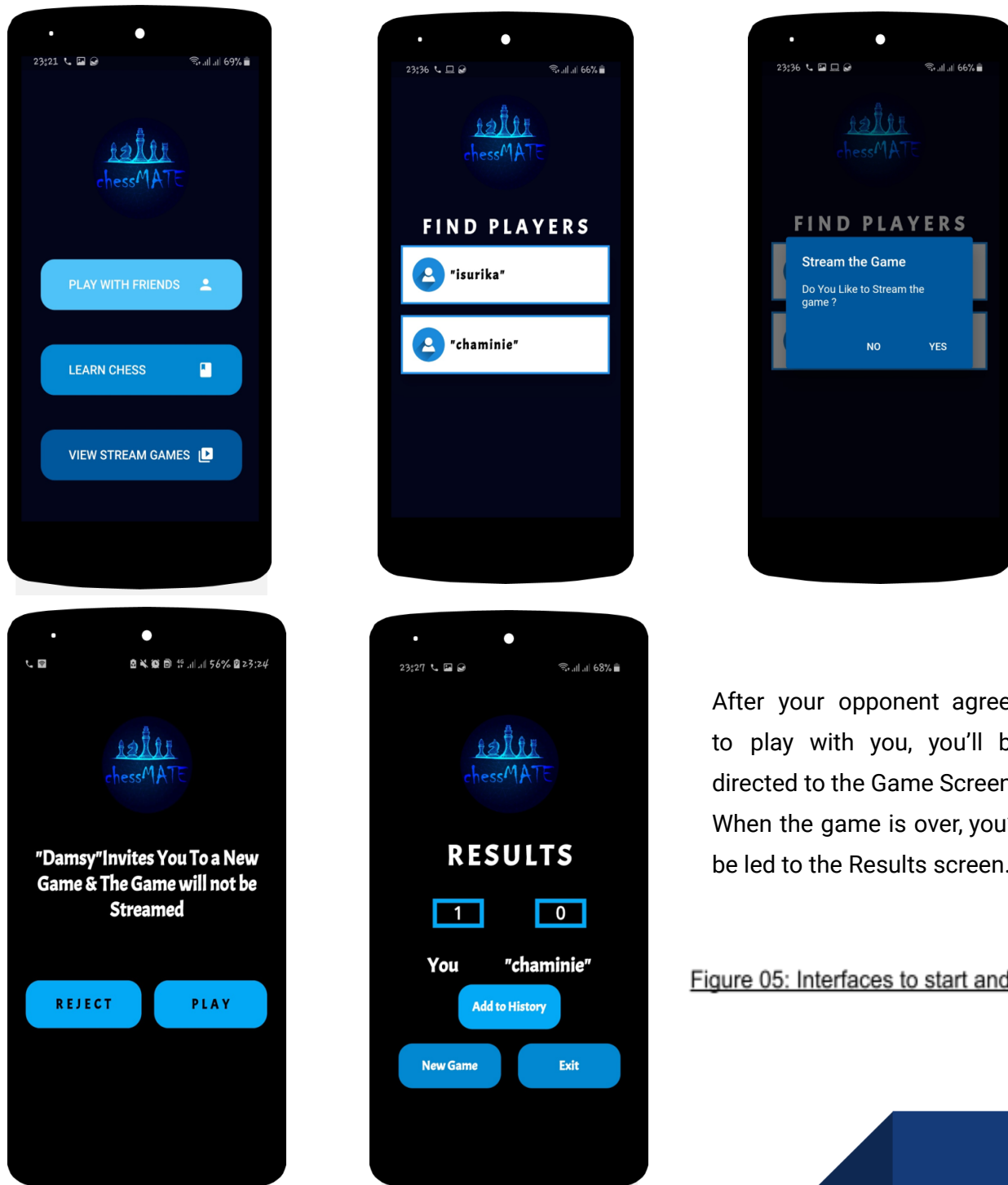
Pair the device “chessMate”.

Select the device from the list.

Figure 04: Interface to Select the Game Mode

## Play Game

Go to **"Play With Friends"**. Select a player from the list. If a player has selected you as their opponent, you will receive an invitation to the game. After selecting a player, you'll be prompted with a dialogue box to state whether you would like to stream your game or not.



After your opponent agrees to play with you, you'll be directed to the Game Screen. When the game is over, you'll be led to the Results screen.

Figure 05: Interfaces to start and play a game



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**Important:**

- When using the chessboard to play, to do a simple movement you should first remove the piece and place it in the destination position.
- It should be pointed out here that if you intentionally try to fool the chessboard by doing something far outside the rules of chess, like picking up multiple pieces and switching them, it is not too hard to confuse the program or even lock it up.
- When a piece is captured, the user should first remove the capturing piece, then remove the captured piece and then replace the capturing piece on the captured piece's square.
- If you use the capturing piece to slide or knock over the captured piece you will most likely get an error, which may not be recoverable, as the magnets can trigger other Hall Effect sensors.
- If you try to take two turns in a row or place a piece on a square that is not allowed or make a move that places your king in check, you'll get an error.

Enjoy your game!

## View a Live Streaming Game

Go to **"View Stream Games"**.

Select a game from the list that you prefer to stream.

Enjoy the game!

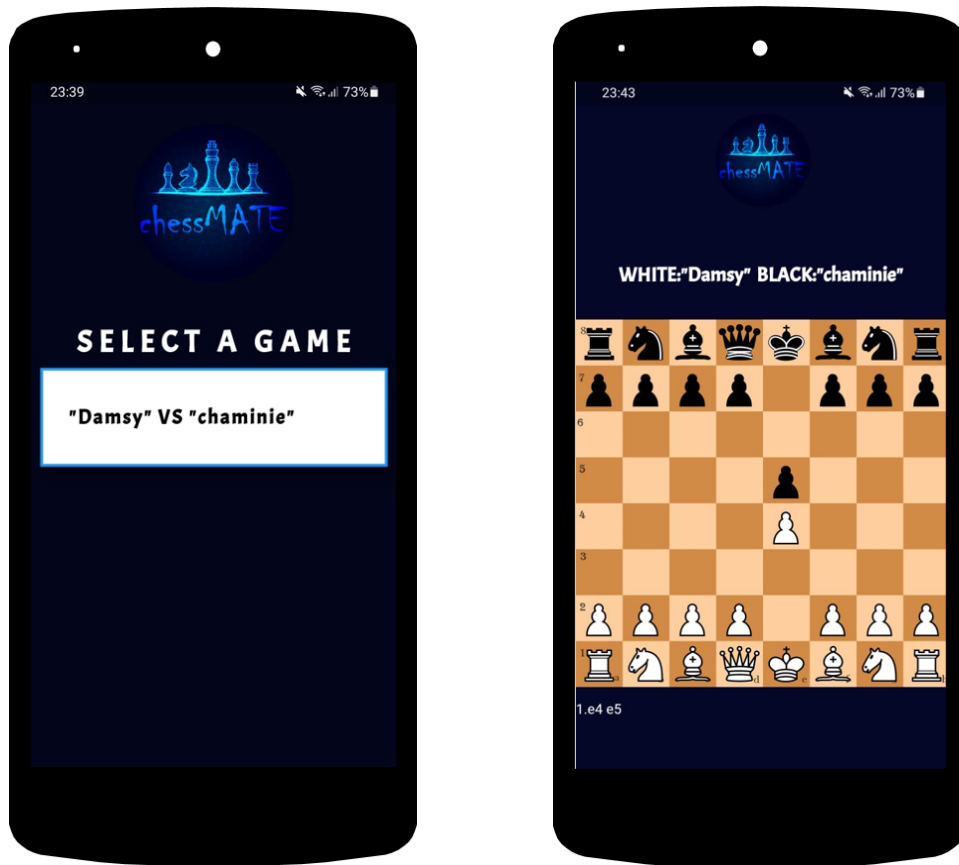


Figure 06: Interfaces for view live stream games

# Learn Chess

Select “**Learn chess**”.

You’ll be directed to many chess learning tutorials

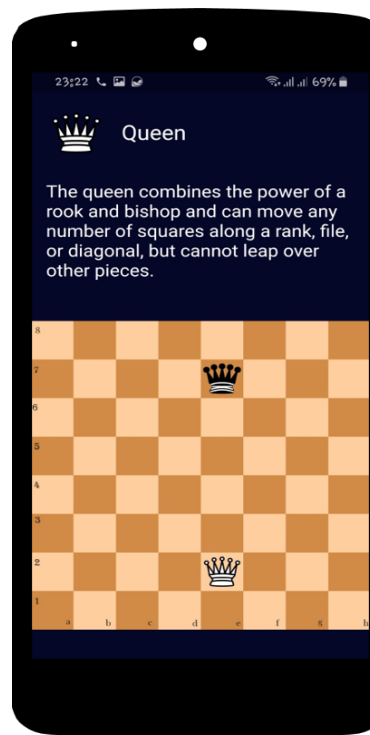
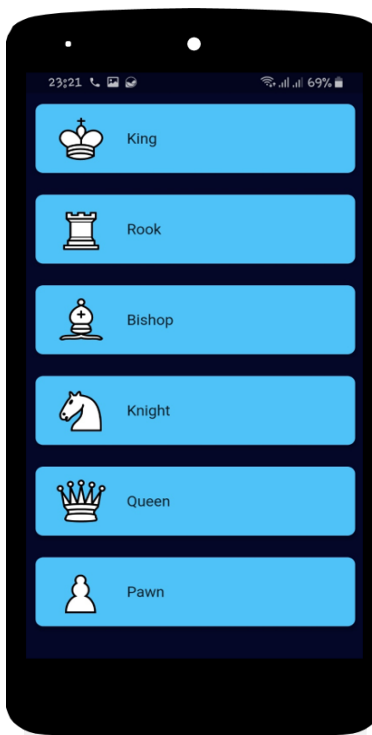


Figure 07: Interfaces for Learn chess Option

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## LED Status Indications

Type of LED	Colour	Status
Bluetooth Indicator LED	Red	Connected to app via bluetooth
	No colour	Not connected to app
LEDs allocated for each square of the chessboard	Red	The starting position of the chess piece
	Blue	Path of the movement
	Green	The end position of the movement

Table 01: LED status indication details

## Maintenance of your Smart Chessboard

- The smart chess board contains a Lithium-Ion Battery which is capable of providing power to a new board for at least 48 hours.
- After some years the capacity of this battery will decrease though and should be replaced when you are unable to play several games without charging the battery.
- If the battery has reached its end of life, dispose of it according to the waste regulations according to your country
- The top of the smart chess board is made with an acrylic board. You can clean it with a damp cloth, preferably a microfiber cloth and glass cleaning liquid.
- The chess pieces with a magnet should be handled with care.