User

Responsibilities	Collaborators
id name gamesWon gamesLost	GameManager Database GUI

Abstract	
Piece	
Responsibilities	**Collaborators**
color location eliminated **getPossibleMoves**	GameManager GUI

Piece

Pawn + (Rook, Bishop, Knight, Queen, King)

Responsibilities	Collaborators
color location eliminated **getPossibleMoves**	Piece GameManager GUI

GameManager

Responsibilities	Collaborators
Board -> Piece[][] whitePiecesOut blackPiecesOut playerWhite playerBlack playerInTurn **makeMove** **startGame** **endGame**	User Piece (and subclasses) Move AI

GUI (Activities + Fragments)

Responsibilities	Collaborators
Collection of Android Studio Activities and Fragments that make up the GUI of the app.	User Piece (and subclasses) Login Database

Move	
Responsibilities	**Collaborators**
color code (This class is used to store moves in the database)	Database User GameManager

Login

Responsibilities	Collaborators
inputUsername inputPassword checkInfo getUserInfo	GUI Database

Matchmaker

Responsibilities

Handles user requests to join a game.
Using the database, it pairs users
together to play chess.

Collaborators

User
Database
GUI
GameManager

AI

Responsibilities

Handles all the logic behind the AI when playing single player.
We will work on this part of the program once the multiplayer is working.

Collaborators

GameManger
GUI

Database

Responsibilities	Collaborators
Layer of abstraction in front of the firebase API. Allows for simple fetching and editing the database.	User GameManager GUI Move Login Matchmaker