

Design Artifacts

CRC cards

- BackendController

BackEndController.java	
Responsibilities Initialize the game board.	Collaborators Has a BanqiBoard()

- BanqiBoard

BanqiBoard.java	
Responsibilities - This class is responsible for creating the actual game board and initializing it (as a 4x8 board). - This class also creates all the pieces and places them in their respective initial positions	Collaborators - This class has a Square object as a private member. - This class uses the Piece class and the TeamColor class

- Coordinate

Coordinate.java	
Responsibilities - This class represents an (x,y) coordinate pair.	Collaborators - None

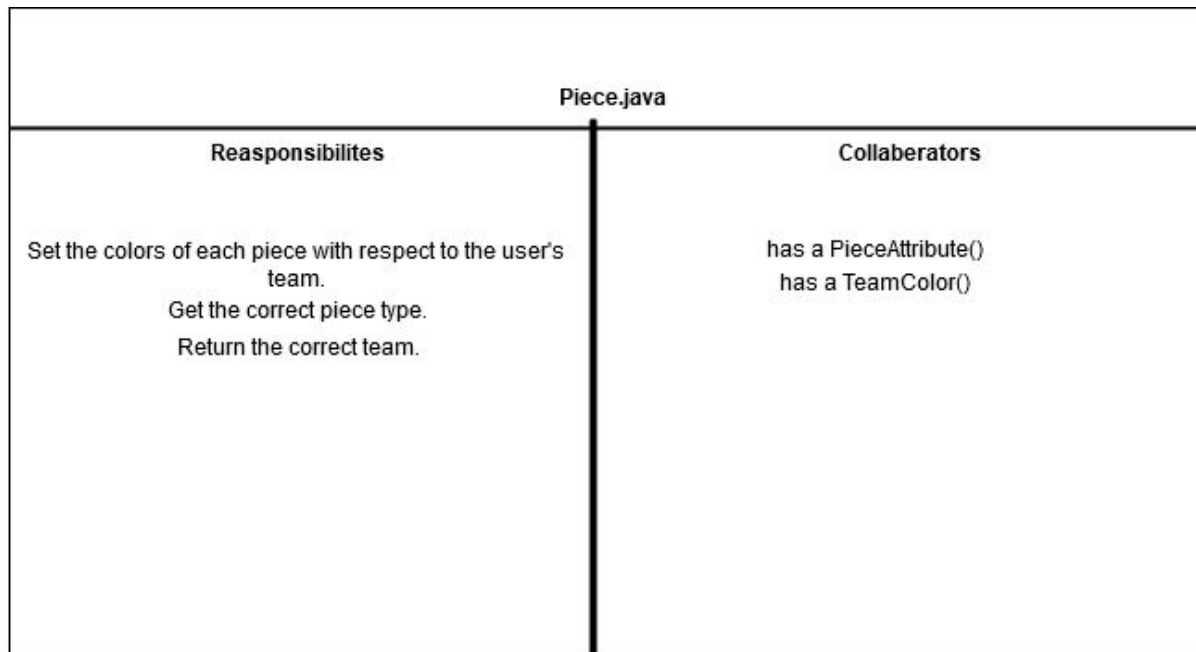
- Square

Square.java	
Responsibilities - This class represents a square on the board. It also knows what's in the square (i.e the game piece) - The class has getter and setter methods	Collaborators - This class has a Piece object and a Coordinate object

- Player

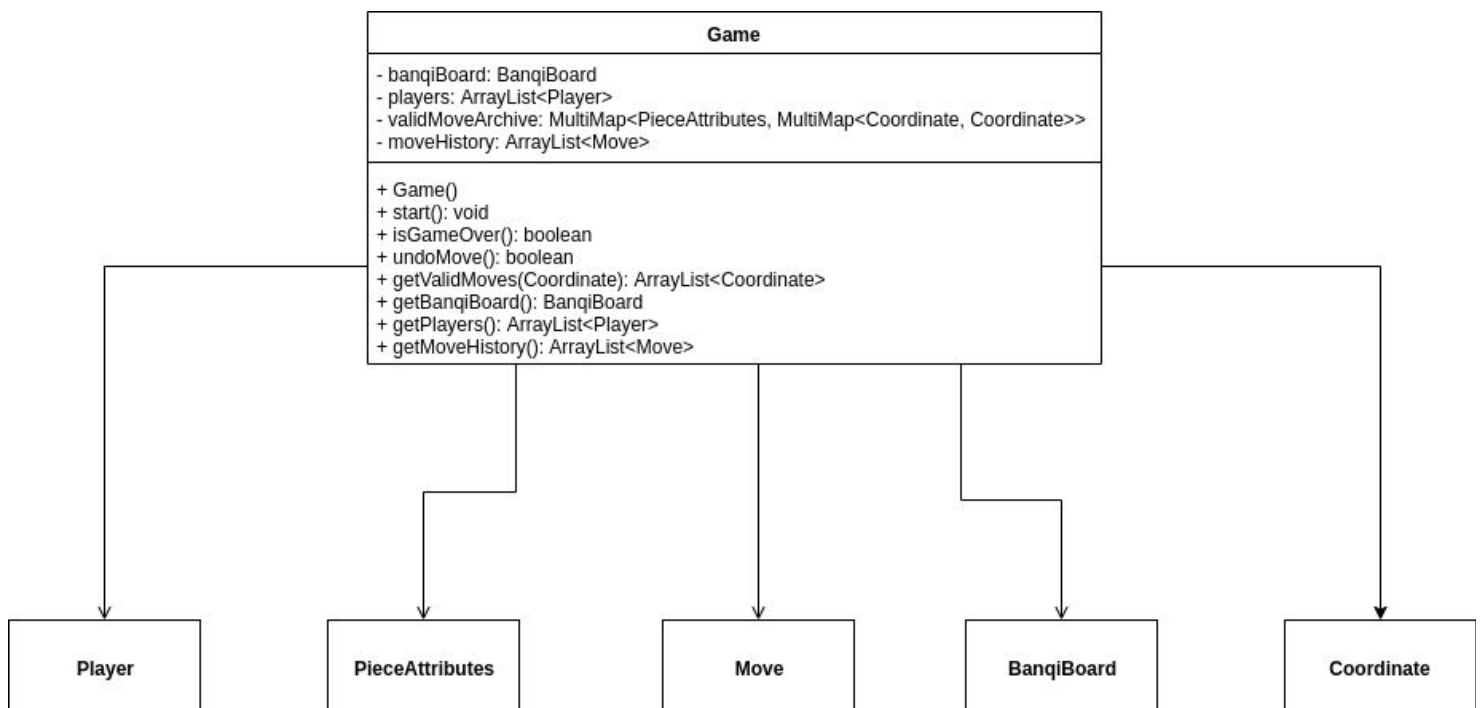
Player.java	
Responsibilities - Player objects keep track of the color of the team the player is on and whether it's their turn or not. - Has getters and setters for getting/setting team color and turn. - Has a toggleturn() method to set turn.	Collaborators - This class has a Piece object and a Coordinate object

- Piece

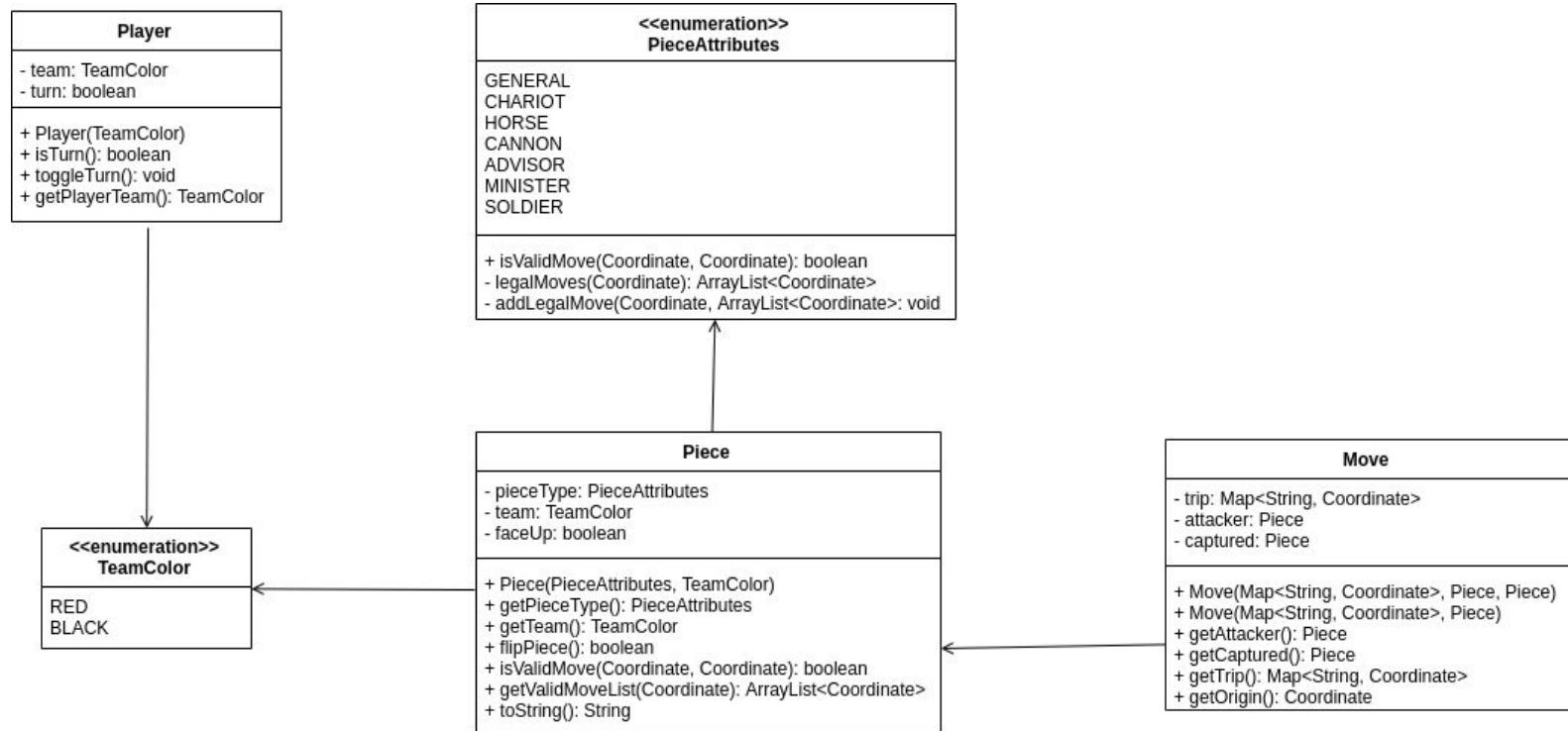


Backend Class Diagram

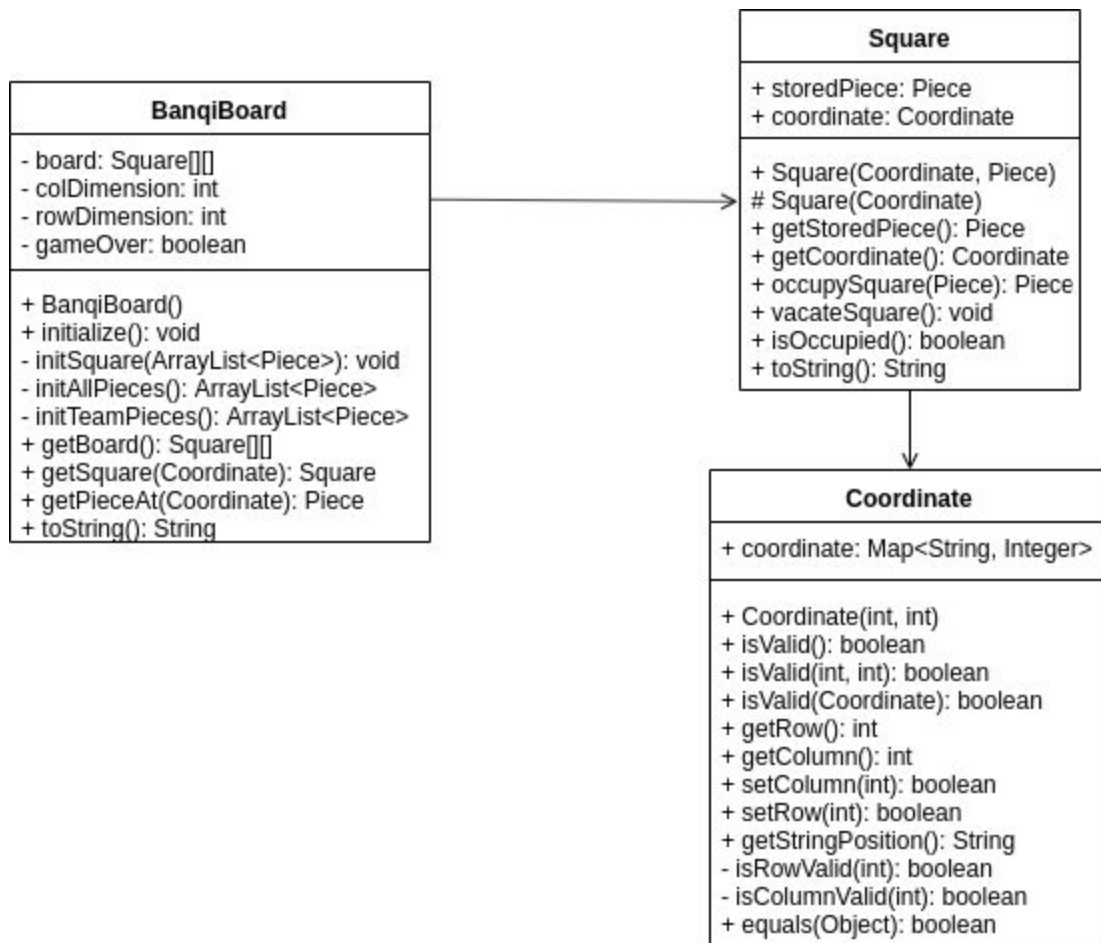
- Game class diagram



- Player, Piece, PieceAttributes, and Move class diagrams



- BanqiBoard, Square, and Coordinate class diagrams



- BackendController class diagram

