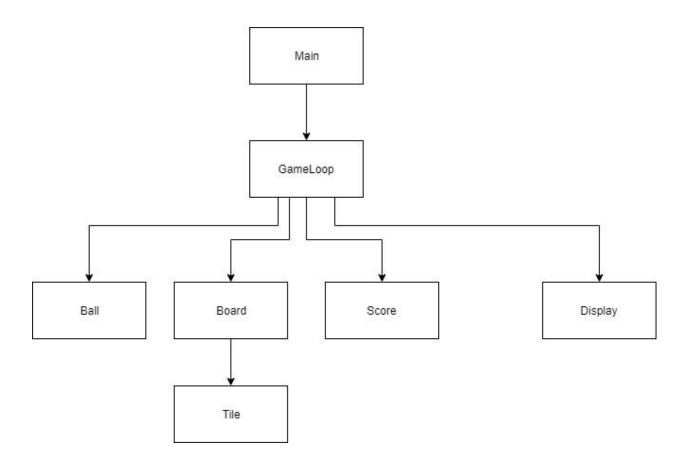
PinBall

Design Diagram
By Gavin McGuire



- Main The program is booted from this class. It extends JavaFX Application. It Initiates
 the GameLoop Object. Uses GameLoops Displays layout to initialize the Scene.
- GameLoop Contains all the game components Ball, Board, and Score contains the
 Display class, the user input methods, and an AnimationTimer.
 - The AnimationTimer updates the Ball position, detects if a target is hit, and resets the game if the ball missed 3 times.
 - The reset method calls reset methods in Ball, Board, and Score, and stops the Animation Timer.
 - The play method launches the ball and starts the timer
 - The event handlers attached to the Display buttons are set to call the reset and play methods mentioned previously
- Ball contains a position and speed, fires the ball at a random angle, and has collision detection.
- Board contains the Tiles and targets. Detects if the ball is on a target, and resets the targets.
- Tile contains a position and can be a target.
- Score keeps track of the points, can increment by 100, and reset.
- Display- contains the Javafx components to display the Board and Ball, and can update the positions and Tile state. Contains the "reset" and "play" buttons at the bottom.