# Soccer Training Simulation - Complete Documentation

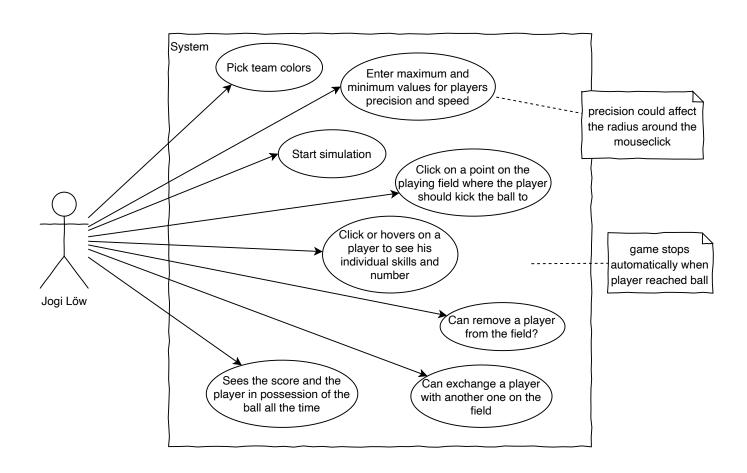
The whole production of this application was developed in collaboration of Mona Stingl and Hannah Dürr with equal contribution of each team member to the final result.

Date of completion: 19/07/2021

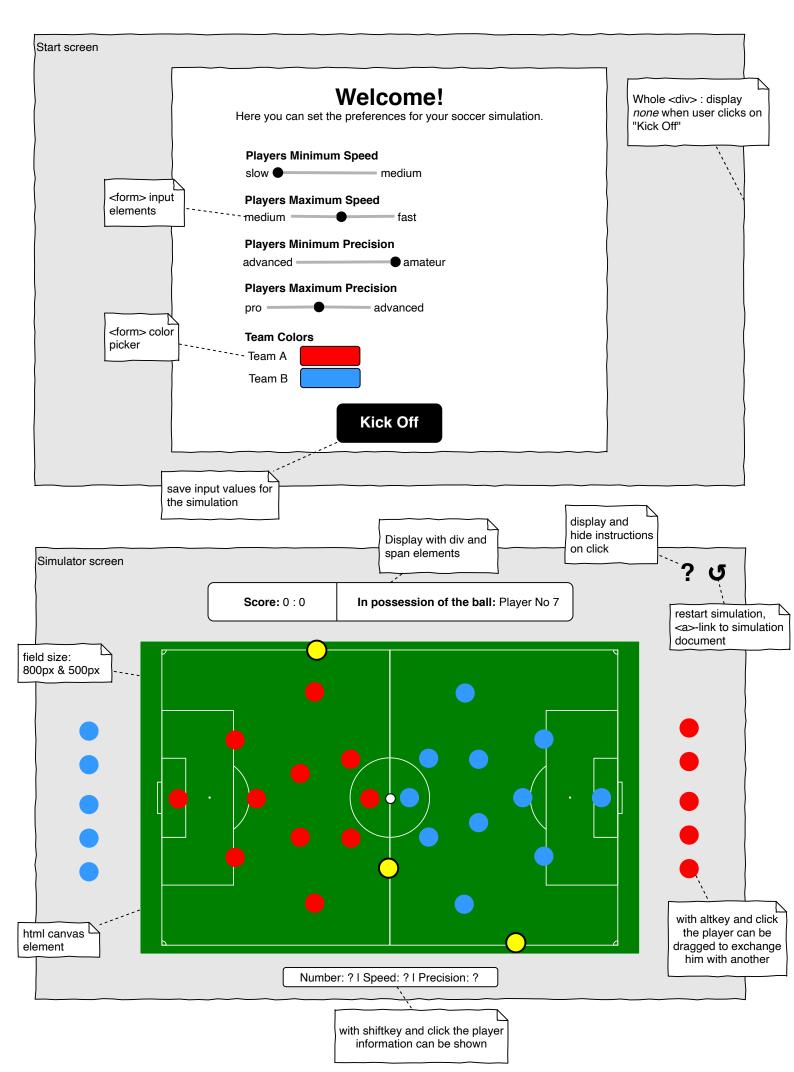
#### Content

- Use Case Diagram
- o User Interface Scribbles
- o Class Diagram
- Activity Diagram
- Class Methods

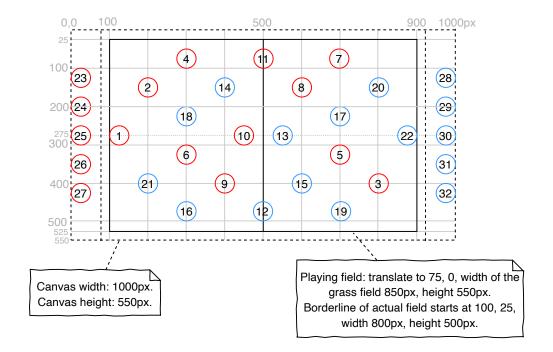
# **Soccer Simulator Use Case Diagram**



# **Soccer Simulator User Interface Scribble**

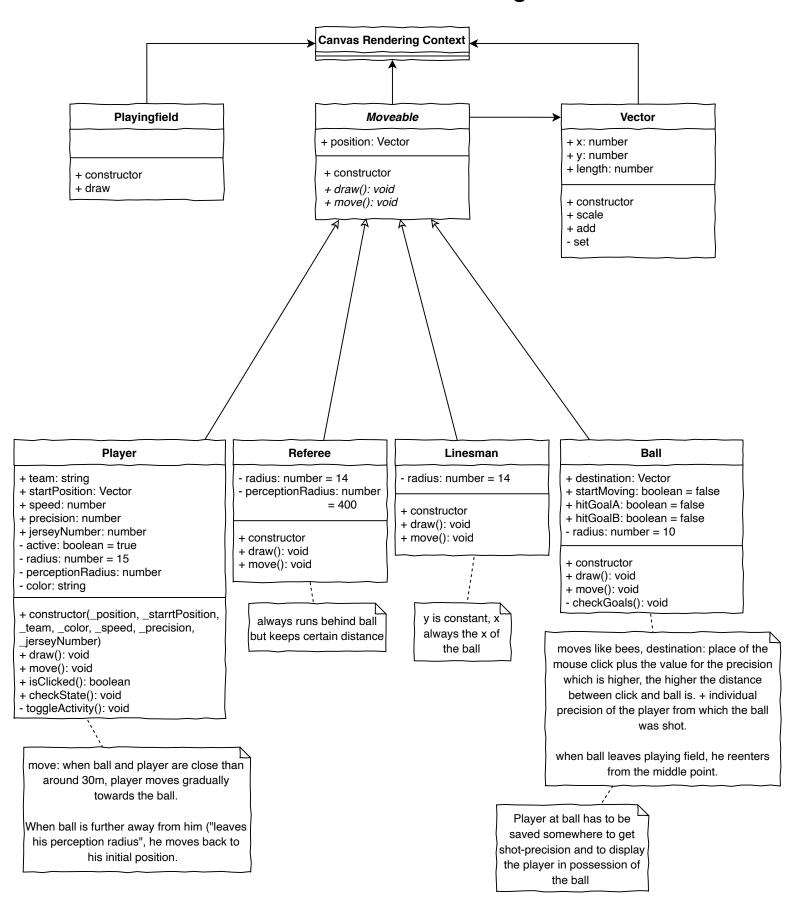


## Scribble for exact canvas values

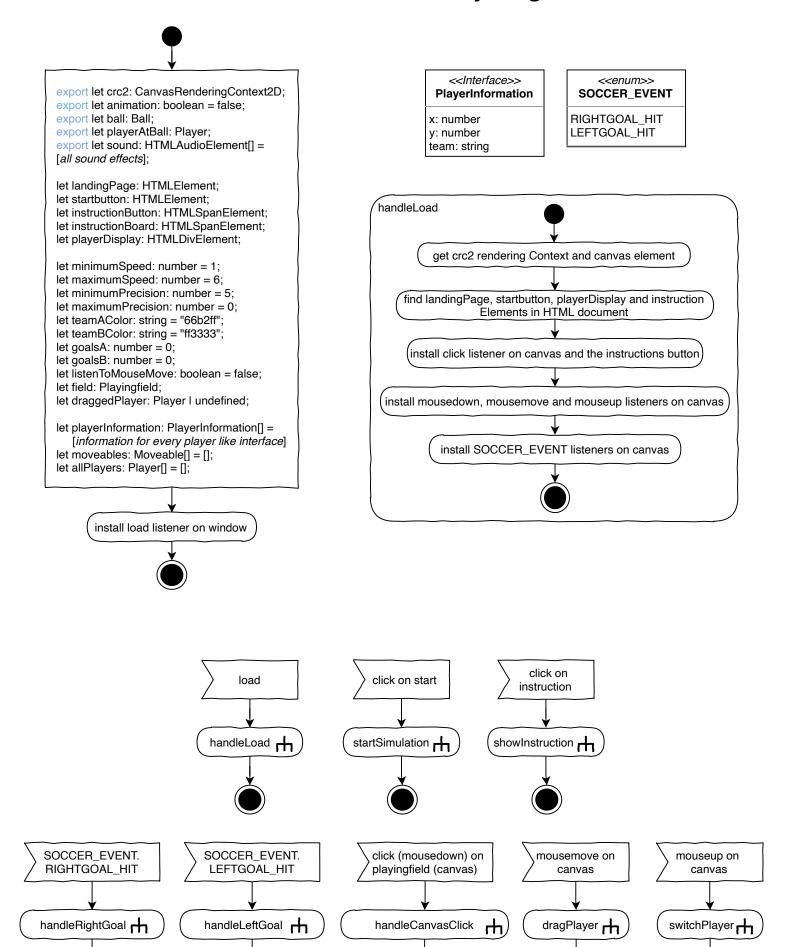


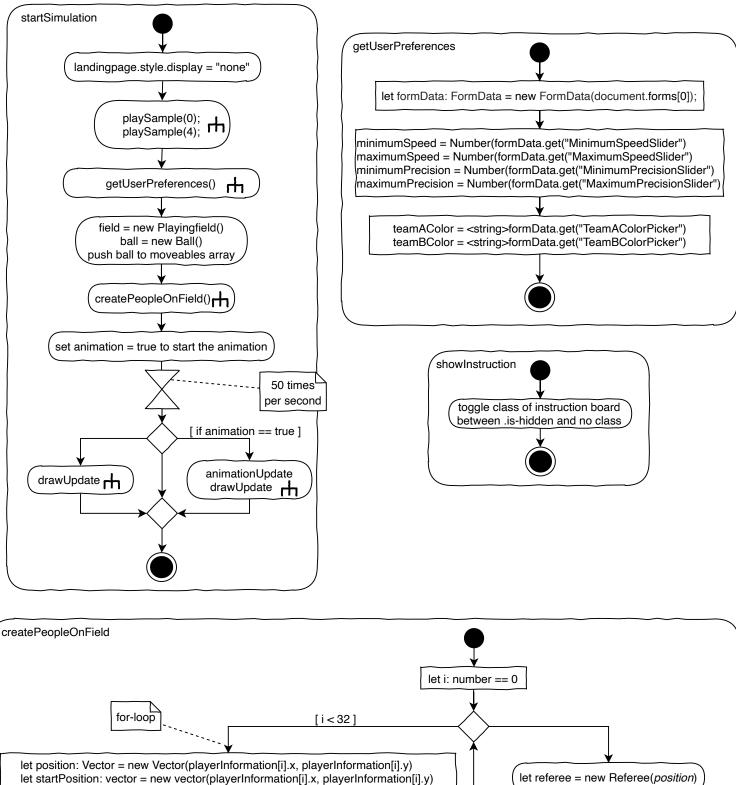
```
playerInformation [
{x: 135, y: 275, team: "A"},
{x: 180, y: 100, team: "A"},
{x: 180, y: 450, team: "A"},
{x: 300, y: 75, team: "A"},
{x: 300, y: 225, team: "A"},
{x: 300, y: 325, team: "A"},
{x: 300, y: 475, team: "A"},
{x: 400, y: 150, team: "A"},
{x: 400, y: 400, team: "A"},
{x: 450, y: 275, team: "A"},
{x: 500, y: 75, team: "A"},
{x: 500, y: 475, team: "B"},
{x: 550, y: 275, team: "B"},
{x: 600, y: 150, team: "B"},
{x: 600, y: 400, team: "B"},
{x: 700, y: 75, team: "B"},
{x: 700, y: 225, team: "B"},
{x: 700, y: 325, team: "B"},
{x: 700, y: 475, team: "B"},
{x: 820, y: 100, team: "B"},
{x: 820, y: 450, team: "B"},
{x: 865, y: 275, team: "B"},
{x: 25, y: 125, team: "A"},
{x: 25, y: 200, team: "A"},
{x: 25, y: 275, team: "A"},
{x: 25, y: 350, team: "A"},
{x: 25, y: 425, team: "A"},
{x: 975, y: 125, team: "B"},
{x: 975, y: 200, team: "B"},
{x: 975, y: 275, team: "B"},
{x: 975, y: 350, team: "B"},
{x: 975, y: 425, team: "B"},
```

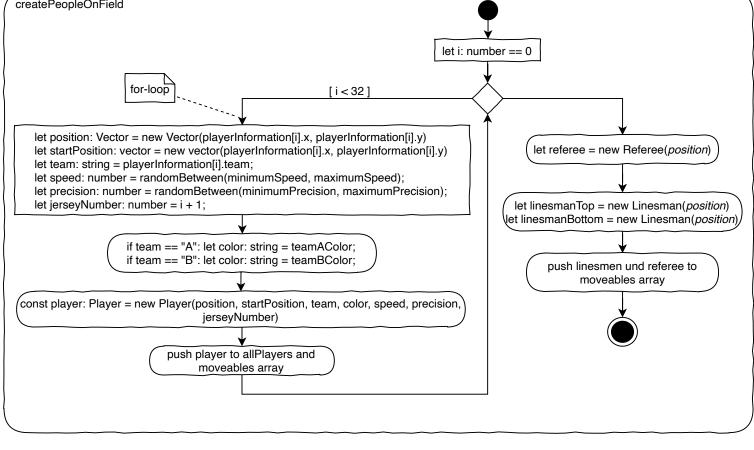
# **Soccer Simulator Class Diagram**

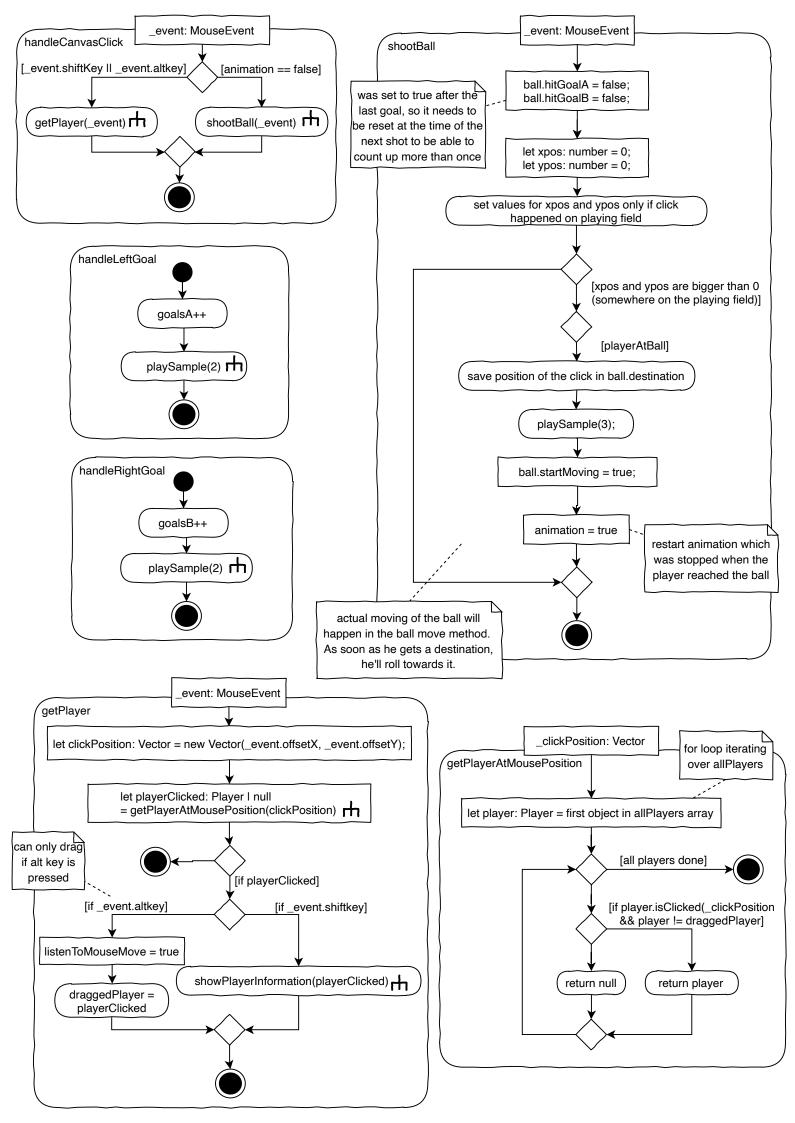


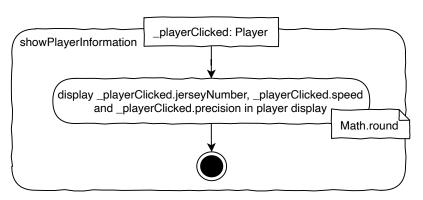
# **Soccer Simulator Activity Diagram**

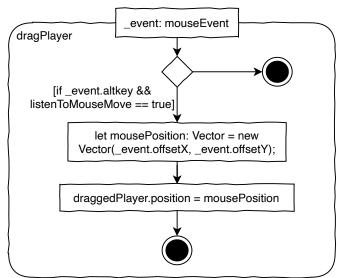


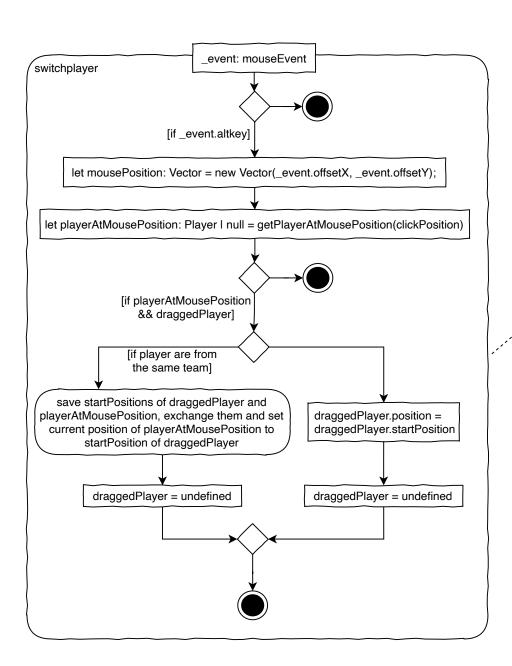


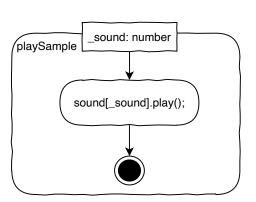






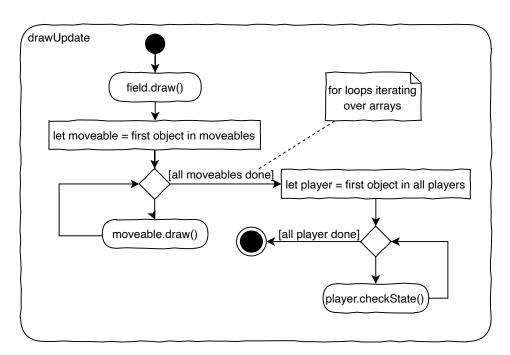


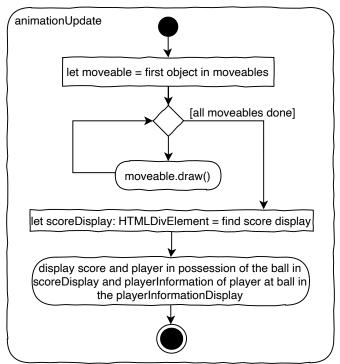




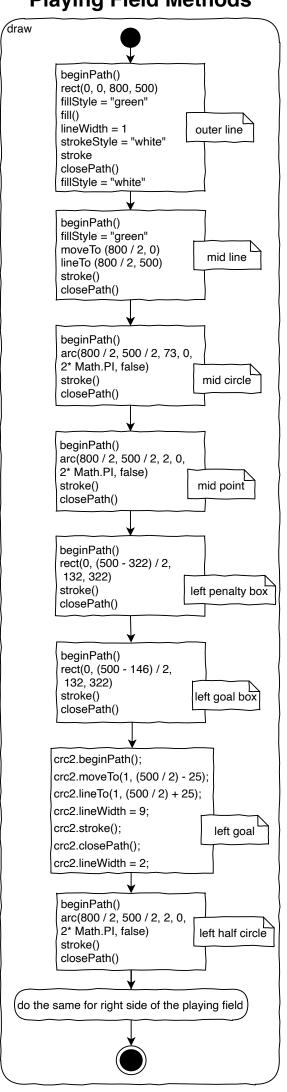
when draggedPlayer is overlapping with a field player at releasing the mouse, they switch their positions.

If there's no player underneath the dragged player, the dragged player jumps back to its start position

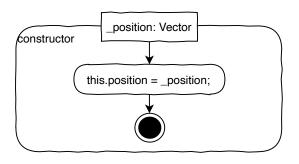


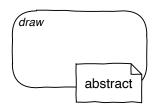


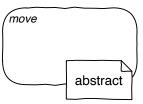
# **Playing Field Methods**



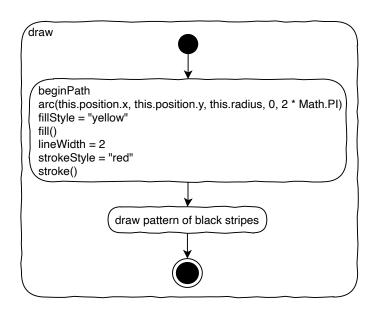
## **Moveable Methods**

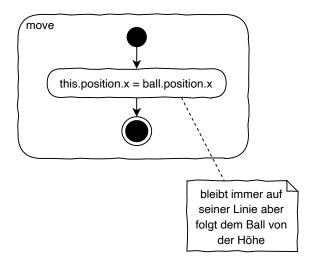




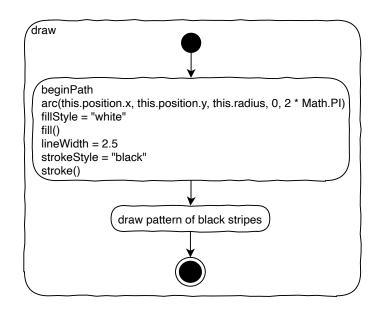


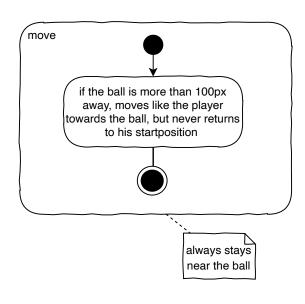
## **Linesman Methods**



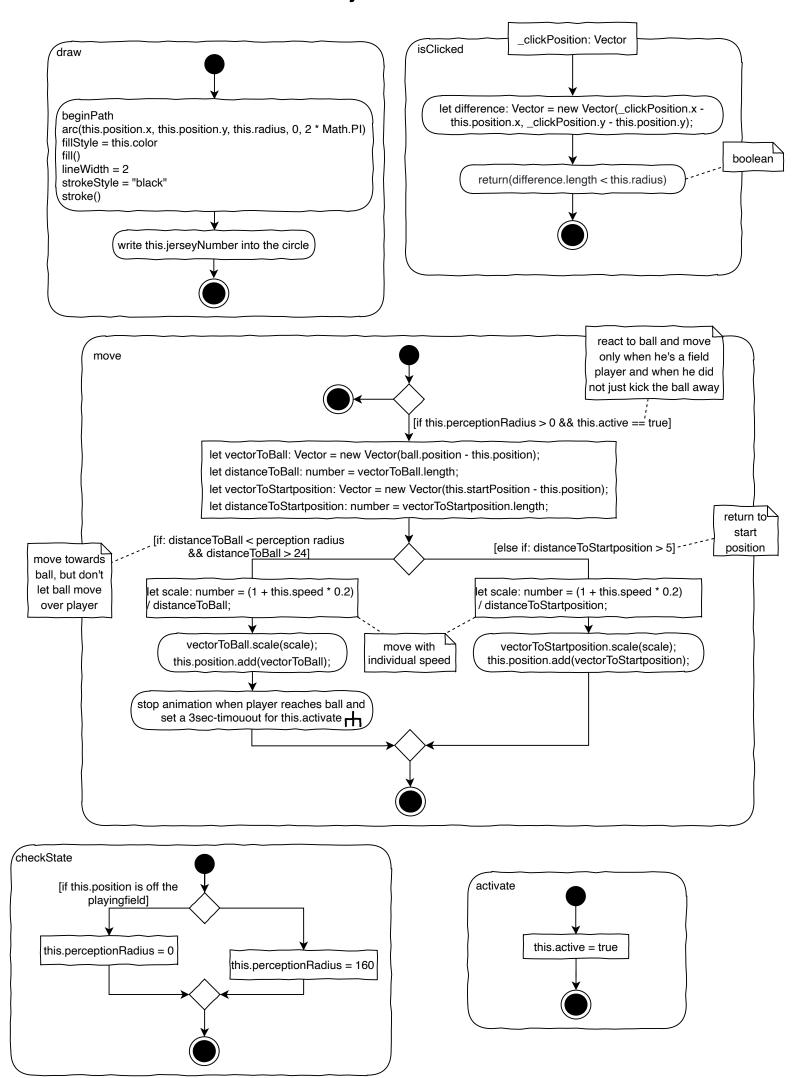


# **Referee Methods**





# **Player Methods**



#### **Ball Methods**

