Soccer Training Simulation - Complete Documentation

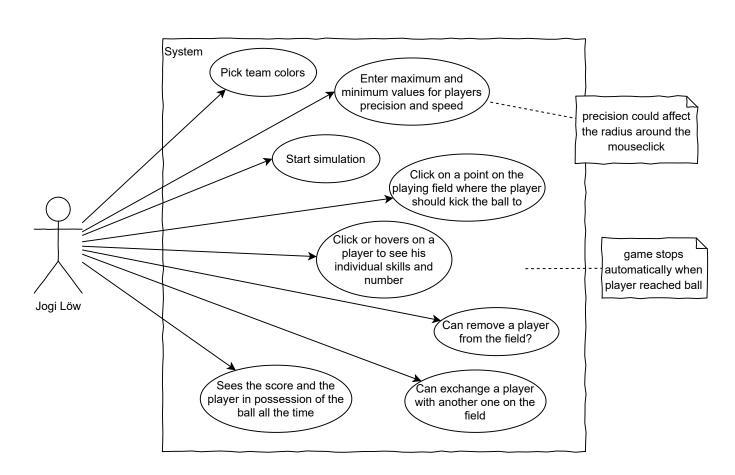
The whole production of this application was developed in collaboration of Mona Stingl and Hannah Dürr with equal contribution of each team member to the final result.

Date of completion: 15/07/2021

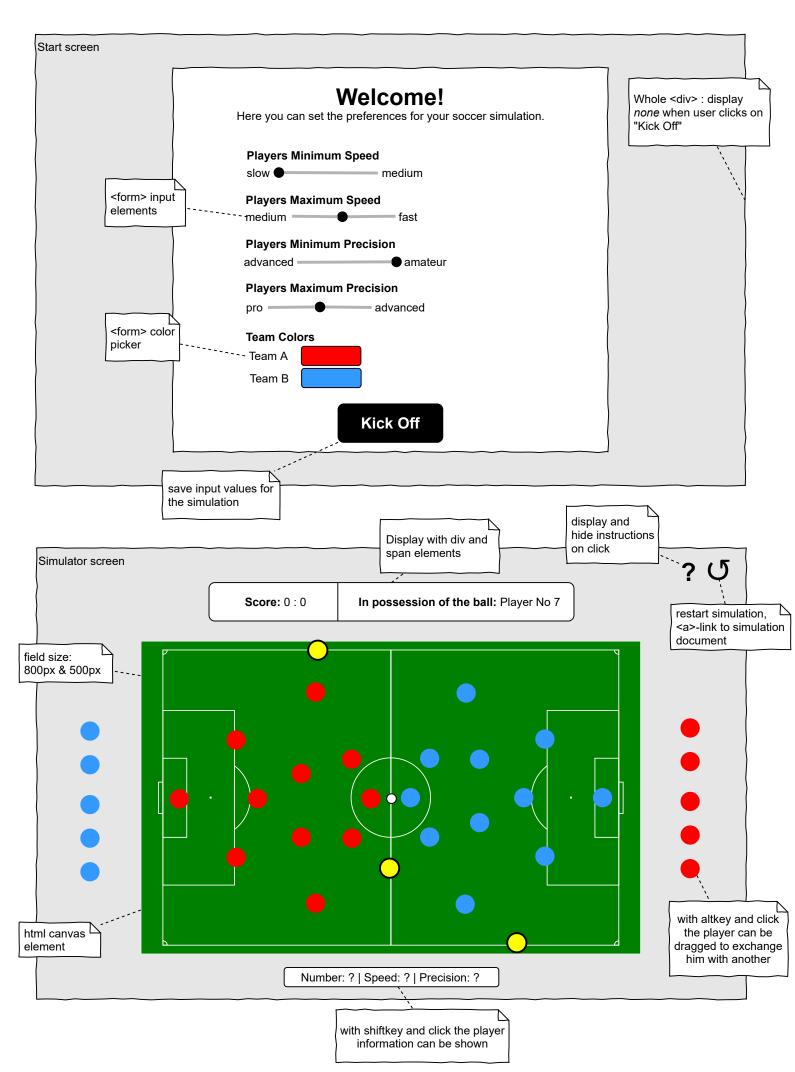
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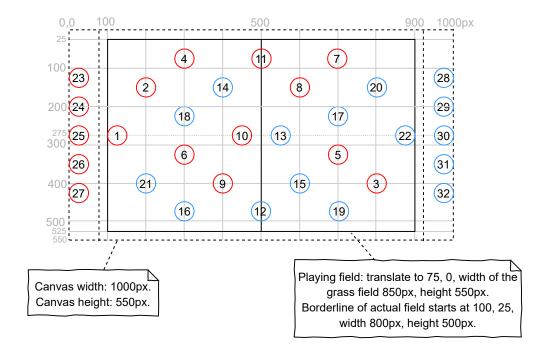
Soccer Simulator Use Case Diagram



Soccer Simulator User Interface Scribble

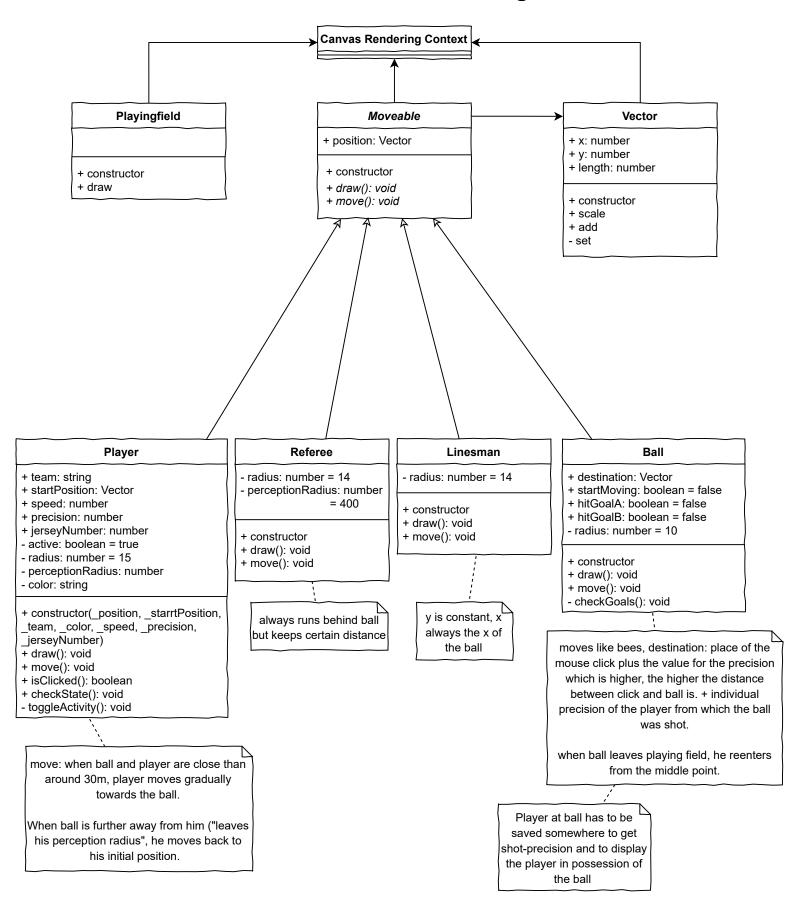


Scribble for exact canvas values

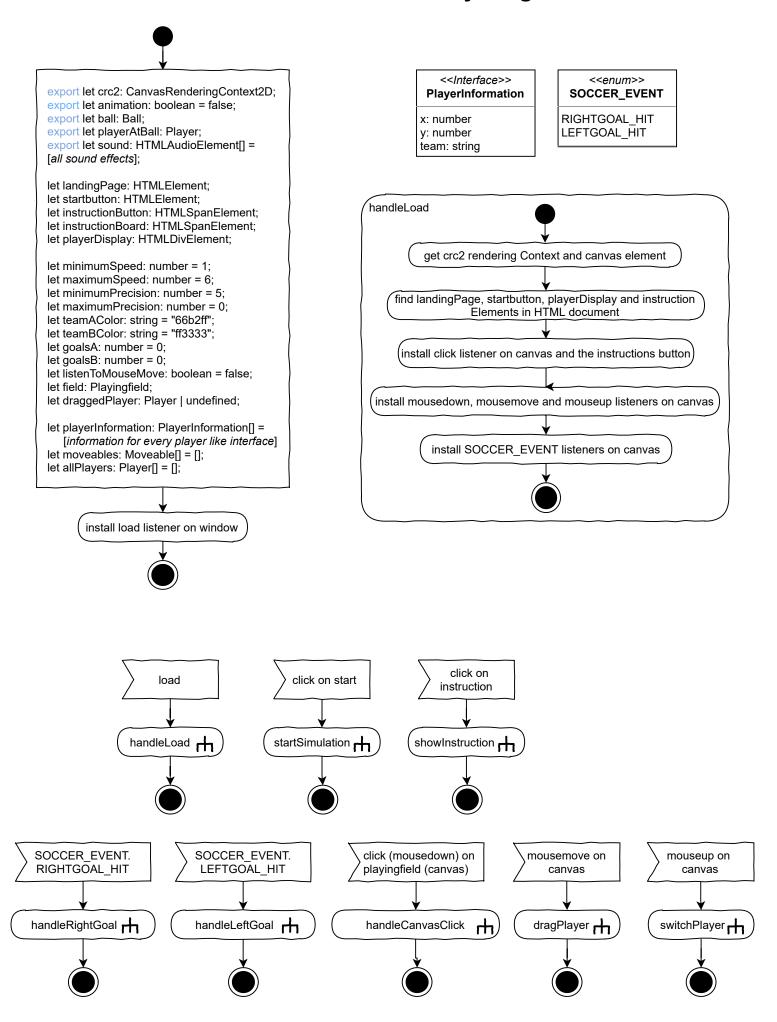


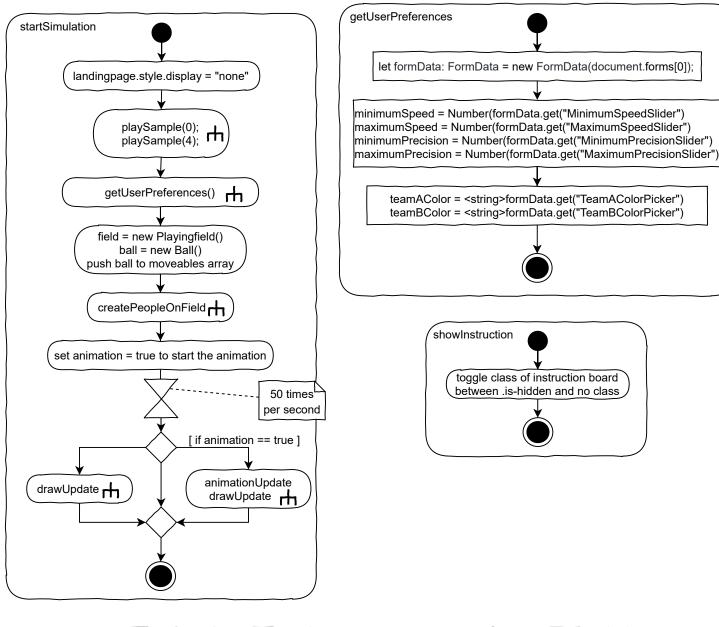
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playerInformation [
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{x: 180, y: 100, team: "A"},
{x: 180, y: 450, team: "A"},
{x: 300, y: 75, team: "A"},
{x: 300, y: 225, team: "A"},
{x: 300, y: 325, team: "A"},
{x: 300, y: 475, team: "A"},
{x: 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"},
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{x: 975, y: 425, team: "B"},
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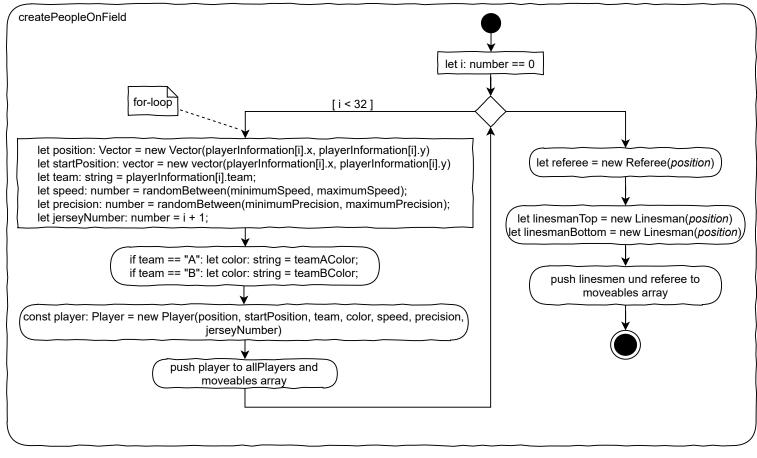
Soccer Simulator Class Diagram

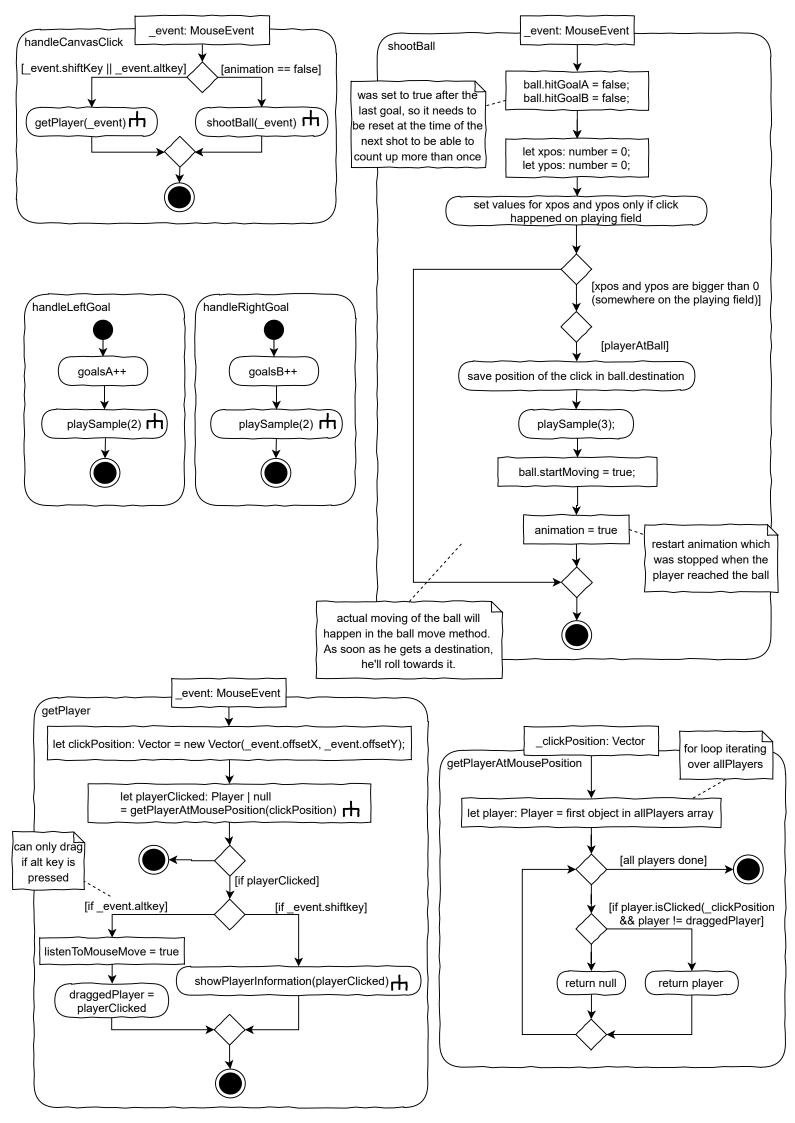


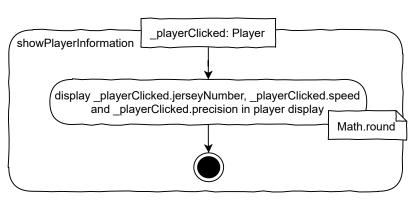
Soccer Simulator Activity Diagram

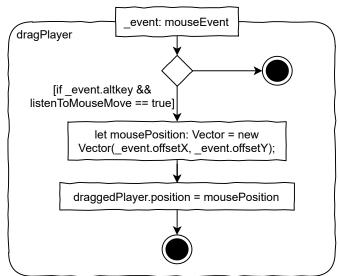


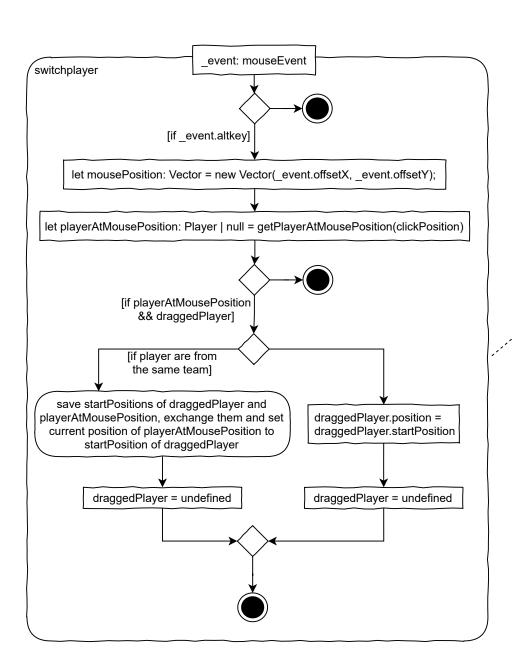


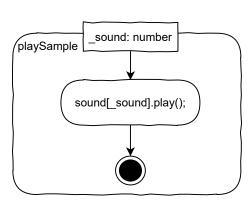






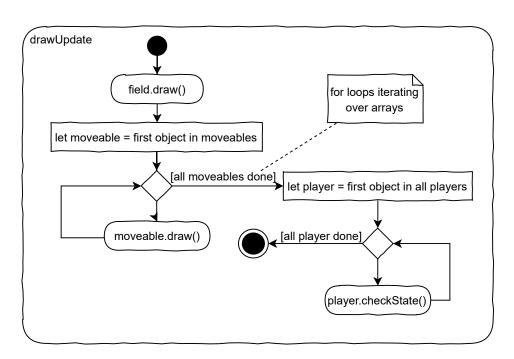


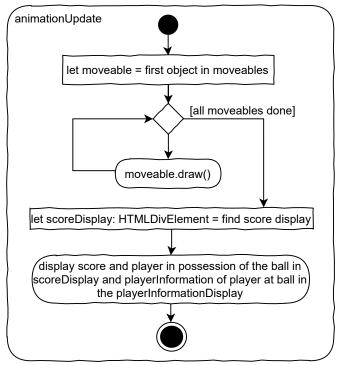




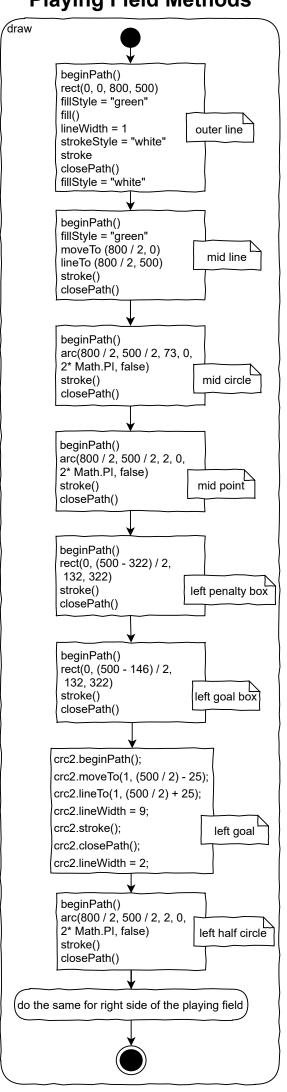
when draggedPlayer is overlapping with a field player at releasing the mouse, they switch their positions.

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

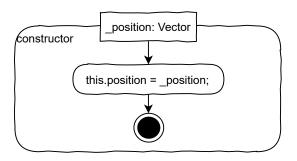


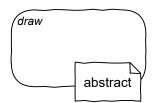


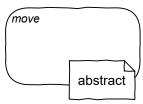
Playing Field Methods



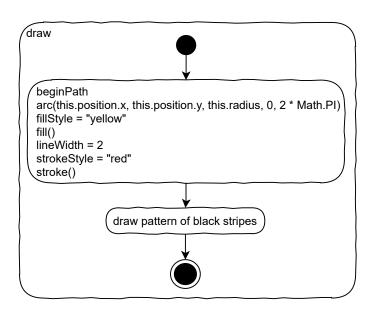
Moveable Methods

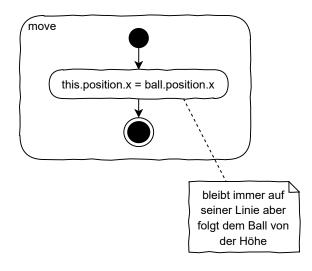




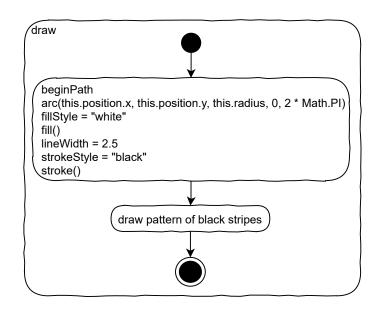


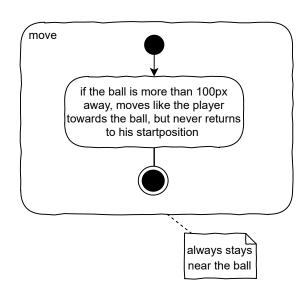
Linesman Methods



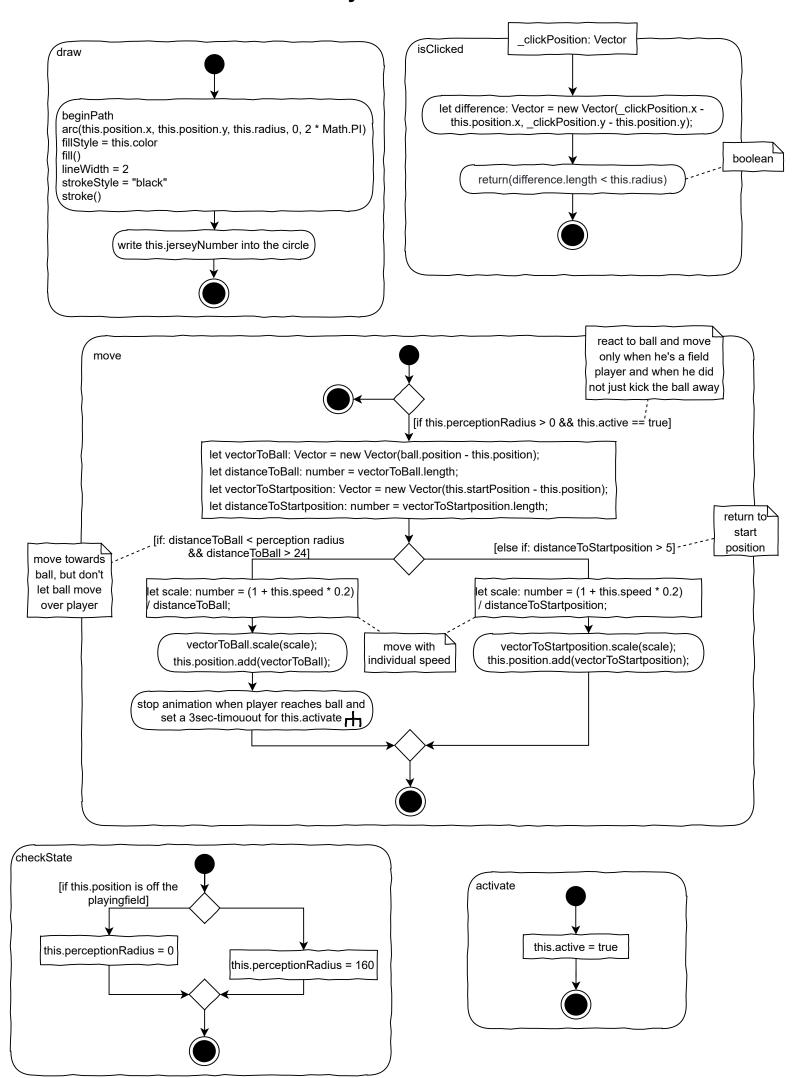


Referee Methods





Player Methods



Ball Methods

