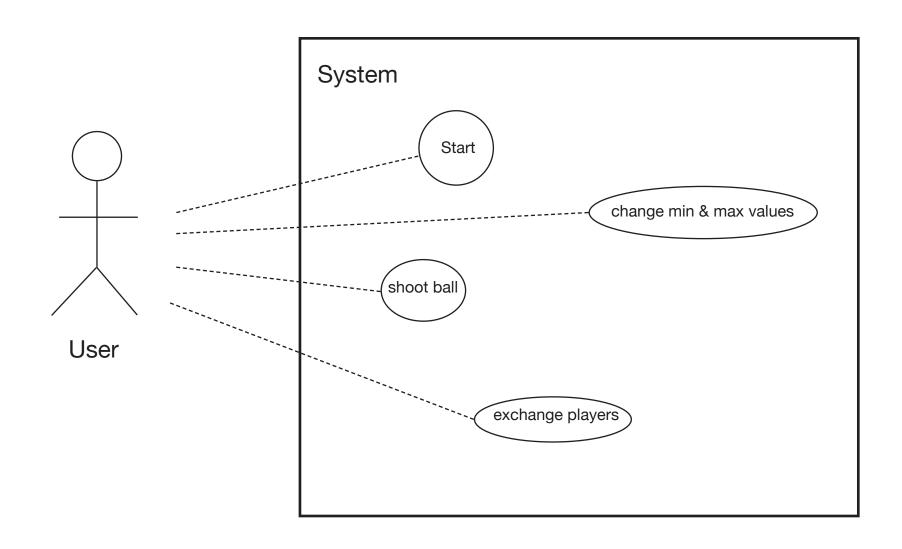
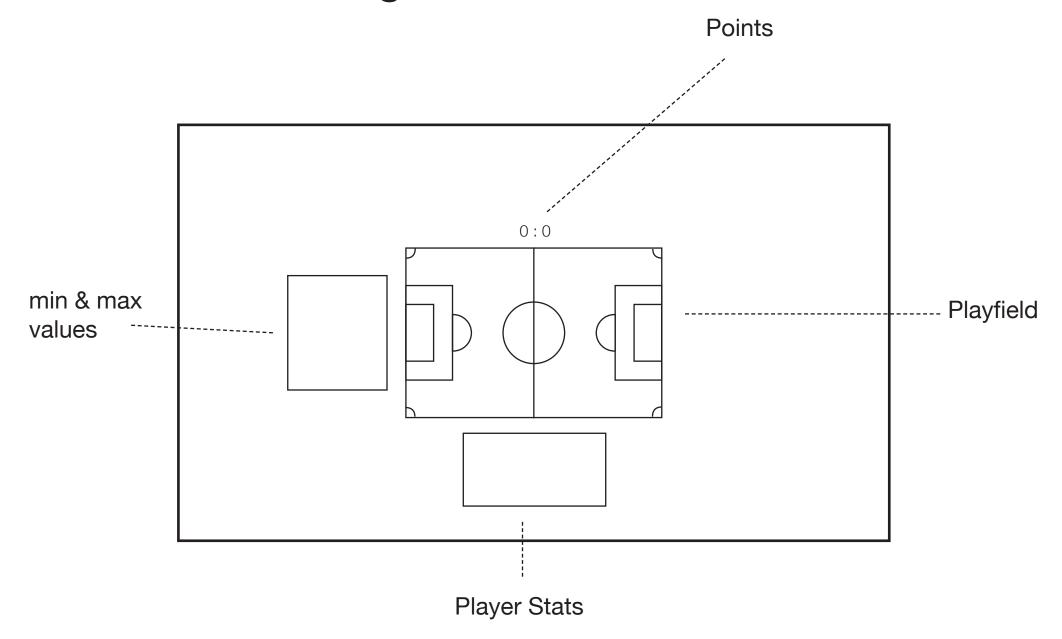
Use-Case Diagramm



User Interface Diagramm



Class Diagramm

Ball

draw() move() private outPlay() Player

draw() move() showInfo()

Vector

set() scale() add() random() copy() on Load ()

dedar all variables for Html Elements

draw background() to Create Players () to

new Ball (new Vector (canvas W./2, canvas H./2),

aold click (istener to canvas

Ls shootBall c)

ordd mouse move listener to canvas

Ls hover ()

aold click listener to popup

Ls on Click OKC)

window set Intervall (update, 20)

leterc 2: Canvas Rendering Context ball: Ball Players: Player []

Start Positions: Vector []
game State. string

game state string Played Out : string

red: number blue: number

mouse Position X: number mouse position Y number

(nouse Position Y = -event. offset X)
mouse Position Y = -event. offset Y)

Players. push [new Player (team, id, startpositions [i], power, runvelocity, precision)

& [i) Start positions. (Length]

Activity Diagramm: Football-Simulator / Main update () draw Background() ball move () hall draw () ifgan & State = "out" 1 Ket i : number Lifix players. length] Lifgame State!="out"] [Fif played Out = blue] V == red] (Plagers [i] move (ball, position)) i=2 player [i]draw () Plagers [i]. show Info (mouse position X, mouse Position Y) players [i] move (ball position) [if players [i].
got Ball] game State = "; played Out =

Activity Diagramm: Football-Jimulator / Main Shoot Ball() [[fevent. offset x > 0 & & event. offset y > 0] letactive Player: Player 17 Player: boolean is Player Clicked: boolean Player Clidred: Player counter i ma number =0; V [if i> players. length] [Cixplayers.length] [if playersti]gotBall] active Player = players[i]; is player = true; Tifdistance (10] let y: number = - event offset x - player. position x let y: number = - event offset y - player position y is Player Clicked = true Pluger (liched = players[i] (et distance: number = Math. 590+ (x . x + y - y) plager to beleteladex = counter

