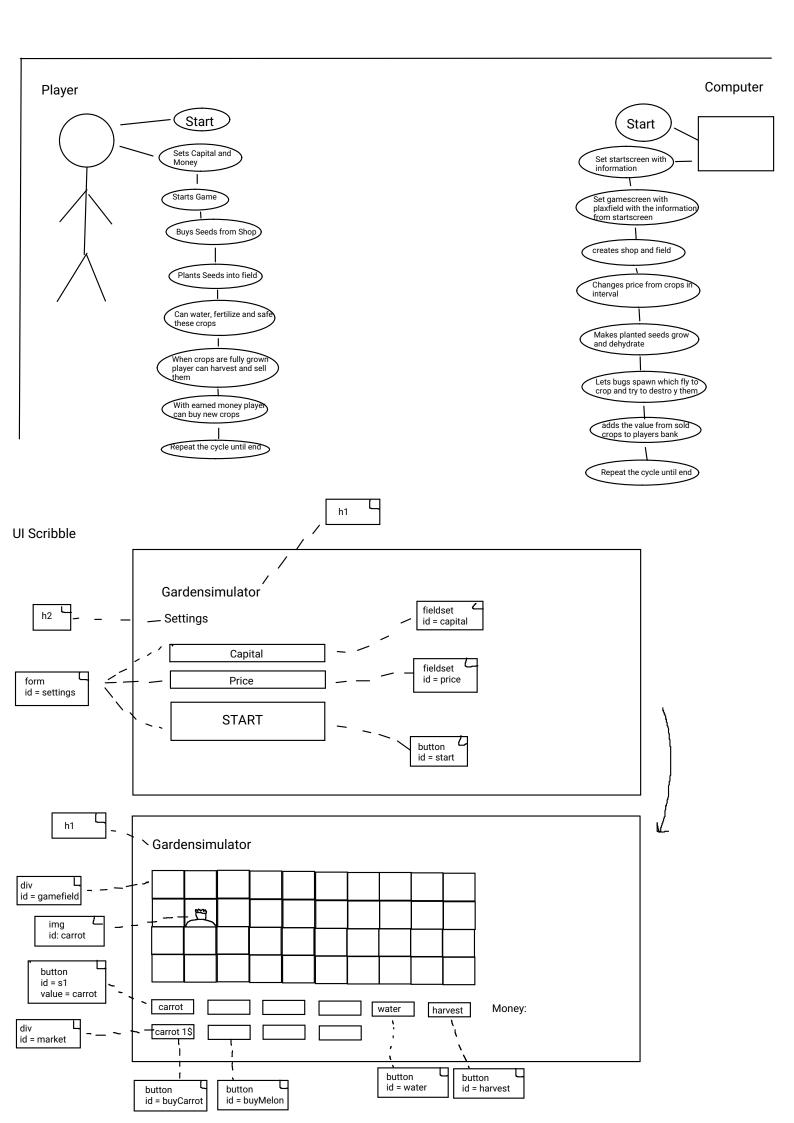
Konzepte EIA2 Endabgabe

- 1.Konzept ist das auf dem karierten Blatt (diente nur zur Verständlichkeit und Übersicht)
- $\circ \quad \text{Endg\"{u}ltiges Konzept ist das folgende mit dem UI-Scribble,}$
 - Klassendiagrammen und Aktivitätsdiagrammen

EIA 2
[] Konzept (Klassendliagram, Akhivitatsa)
Anwendung
1 40 Felder > jeweils eine Pflanzo
Decles Feld rann bepflanzt werden
Deflance stellt Wachstaclium da (Klein, Mittel, broß, duri)
Deschadling - kann pflanze zerstören (auch mehrere)
D Attionen: wird durch Interaction mit Feld ausgelost
Ogießen Odungen Oschadling berämpfen
Danbauen Dernten Deflanze loschen
D kaufen
05 hemuse
Sehen unters. aus, brauchen unters. lang, brauchen unters. wel wasser
a Kapital wird angezeigt (wird bei Start angegeben)
D Markt preise für:
D'hemuso D'Pestizide (ancier b sich
D Dünger
0 Pflanze shirbt wenn:
nicht gegossen + übergossen
+ uberdung + Schadung
Deflance tot = Feld wird leer
Deerntet = Feld leer + Kapital steigt (aktueller Preis)
Dixutzer tann vom rapital raufen:
Detzlinge Dunger Destizie
Destivicle werden nur auf schadung angewender.
D Simulation lauft beschleunigt
Brunnes in Realieit



Load static carrotS: HTMLImageElement static carrotM: HTMLImageElement static carrot:B HTMLImageElement static melonS: HTMLImageElement static melonM: HTMLImageElement static melonB: HTMLImageElement static radishS: HTMLImageElement static radishM: HTMLImageElement static radishB: HTMLImageElement static saladS: HTMLImageElement static saladM: HTMLImageElement static saladB: HTMLImageElement static celleryS: HTMLImageElement static celleryM: HTMLImageElement static celleryB: HTMLImageElement static water: HTMLImageElement static fertilize: HTMLImageElement static bug: HTMLImageElement static empty: HTMLImageElement static loading(): Plant static image: HTMLImageElement static price: number static priceNew: number static <u>seedamoun</u>t: number K_ sellPrice: number type: string images. HTMLImageElement image: HTMLImageElement waterImages: HTMLImageElement waterImage: HTMLImageElement fertilmage: HTMLImageElement currentcolor: string row: number collum: number age: number finalAge: number age1: number age2: number price: number . needsWater: boolean = false bugs: Bug[] = [] plant: Plant . water: number waterLevel1: number waterl evel2: number 欠 waterLevel3: number waterLevelMax: number duenger: number duengerLevel1: number duengerLevel2: number duengerLevel3: number duengerLevelMax: numberr public+ constructor(): grow(): void

plantNeedsWateer(): void plantNeedsFerti(): void PlantWatering(): void plantFerti(): void draw(): void createBug(); clear(): void

Bug

- + public position: number private row: number
- private: collum: number
- + public constructor (): + public draw():
- public fly():

Player

static task*TASK>>

static pesticidesAmount: number static duengerAmount: number

static duengerPrice: number static pesticidePrice: number static duengerPrice: number static pesticidepriceNew: number

plant (_value: string: void):

harvest(): void water(): void fertilize (): void

buy (_value: string): void

<<enum>> **TASK**

PLANTSEED1 PLANTSEED2 PLANTSEED3 PLANTSEED4 PLANTSEED5 **HARVEST** WATER **FERTILIZE PESTICIDE**

Field

row: number collum: number color: string isClear: boolean plant: Plant

constructor(_row, _collum)

isHit(): void draw(): void

Carot

static price: number static seedamount: number static sellprice: number priceNew: number

images: HTMLImageElement[] image: HTMLImageElement

type: string row: number collum: number finalAge: number age1: number age2: number waterLevel1: number waterLevel2: number waterLevel3: number waterLevelMax: number duengerLevel1: number duengerLevel2: number duengerLevel3: number duengerLevelMax: number

constructor(_row, _collum): { super(_row, _collum)

Melon

row: number

collum: number

static price: number static seedamount: number static sellprice: number priceNew: number

images: HTMLImageElement[] image: HTMLImageElement type: string

finalAge: number age1: number age2: number waterLevel1: number waterLevel2: number waterLevel3: number waterLevelMax: number duengerLevel1: number duengerLevel2: number duengerLevel3: number duengerLevelMax: number

constructor(_row, _collum): { super(_row, _collum)

static price: number static seedamount: number static sellprice: number priceNew: number images: HTMLImageElement[]

image: HTMLImageElement

type: string row: number collum: number finalAge: number age1: number age2: number waterLevel1: number

Radish

waterLevel2: number waterl evel3: number waterLevelMax: number

duengerLevel1: number duengerLevel2: number duengerLevel3: number duengerLevelMax: number

constructor(_row, _collum): { super(_row, _collum)

Salad

static price: number static seedamount: number static sellprice: number priceNew: number . images: HTMLImageElement[] image: HTMLImageElement type: string row: number collum: number

finalAge: number age1: number age2: number waterLevel1: number waterLevel2: number waterLevel3: number

waterLevelMax: number duengerLevel1: number duengerLevel2: number duengerLevel3: number duengerLevelMax: number

constructor(_row, _collum): { super(_row, _collum)

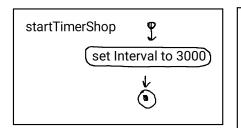
Cellery

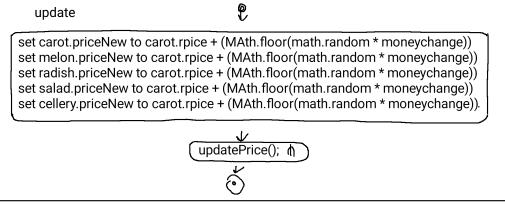
static price: number static seedamount: number static sellprice: number priceNew: number images: HTMLImageElement image: HTMLImageElement type: string row: number collum: number finalAge: number age1: number age2: number waterLevel1: number waterLevel2: number waterLevel3: number waterLevelMax: number duengerLevel1: number duengerLevel2: number duengerLevel3: number duengerLevelMax: number

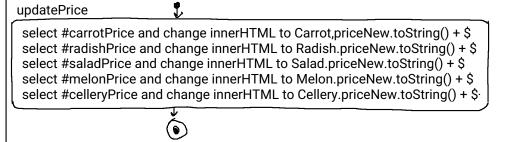
constructor(_row, _collum): { super(_row, _collum)

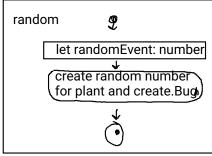
-main hdlLoad load \ export let canvas: HTMLCanvasElement export let cr2: CanvasRenderingContext2D Load.loading(); addEventListener export let allFields: Field[] = [] export let allPlants: Plant[] = [] let assets: HTMLDivElement hdlLoad h export let player: Player = new Player() set Gamefield to hidden with export let mX: number export let mY: number querySelector export let time: number let gameField: HTMLDivElement let startButton: HTMLButtonElement let formValues: FormData export let money: number add EventListener to startButton let moneyChange: number click buildField, createGardenField buildField (9) update(); ሐ _evt: MouseEvent createGameButtons() for loop getMousePosition createGardenField() let i: number startTimer(); A startTimerSHop(); if i < 4i++let rect: DOMRect set gameField visibility to visible for let j: number mX = _evt.Clintx - rect.left if j < 10 j++mY = _evt.ClientY - rect.top let formData: HTMLDivElement push all new Filed into allFields for let field of all fields set formData to #settings for field of allField. field.isHit (9) field.draw(); lacksquarecreateGAmeButtons (0) canvas = document.querySelector("canvas") getFormSetting(); cr2 = canvas.getContext("2d") draw canvas with crc2. fillStysle, crc2.fillRect and canvas.height . set formValues to new canvas.addEventListener on Mouse FormData click money = Number from "capital" Tet buyBtn1: HTMLInputElement let buyBtn2: HTMLInputElement let buyBtn3: HTMLInputElement moneyChange = Number let buyBtn4: HTMLInputElement from Price let buyBtn5: HTMLInputElement **(9)** add Eventlistener to every button above so player can buy value Zclick startTimer set Interval to 1000 let seedButton1: HTMLInputElement let seedButton2: HTMLInputElement let seedButton3: HTMLInputElement \odot let seedButton4: HTMLInputElement let seedButton5: HTMLInputElement timer add eventListener to every Button so player can plant selected seed time++ click for all plant of allPlants let harvestButton: HTMLInputElement let waterButton: HTMLInputElement plant.grow(); 노 let fertilizeButton: HTMLInputElement plant.plantneedsWater() let pesticideButton: HTMLInputElement plant.plantsneedsFertin add eventListener to every Button so player can harvest, water, fertilize and pesticide plant.draw(); /h select #money with querySelector and chang innerHTMI to "Money:" + money + \$

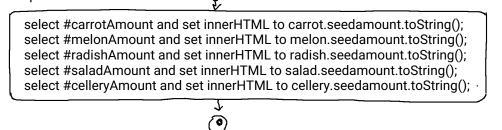
4

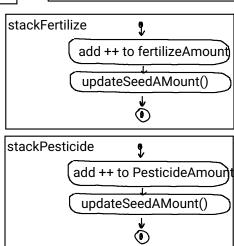








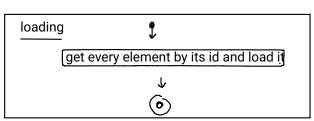


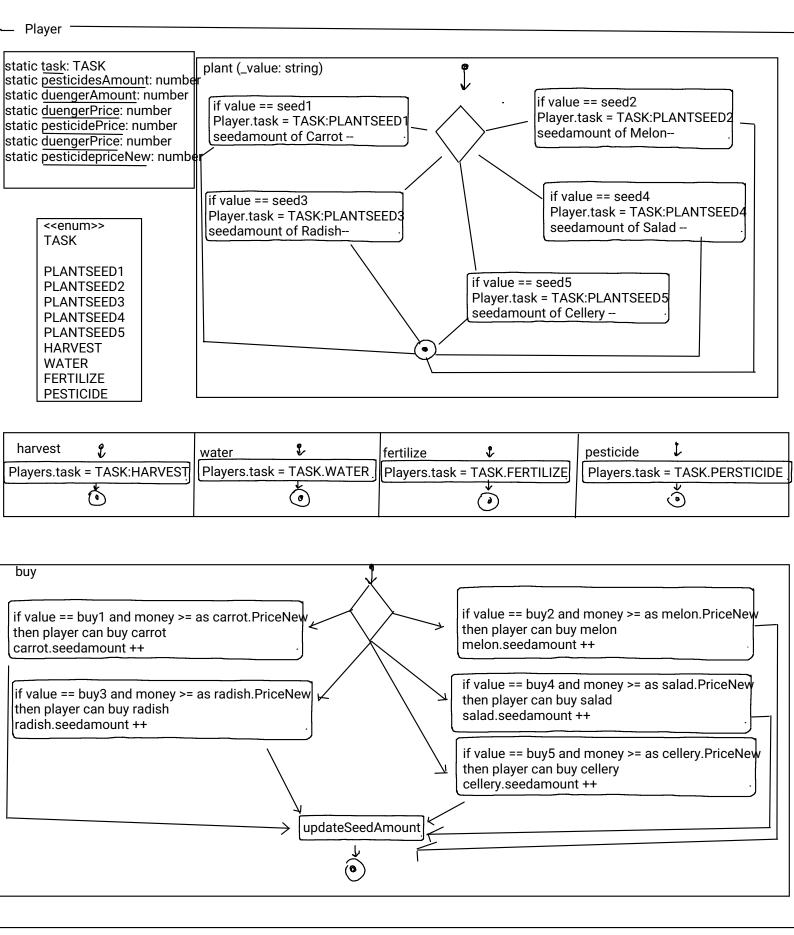




updateSeedAmount

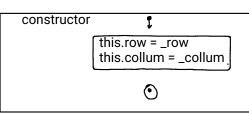
static carrotS: HTMLImageElement static carrotM: HTMLImageElement static carrot:B HTMLImageElement static melonS: HTMLImageElement static melonM: HTMLImageElement static melonB: HTMLImageElement static radishS: HTMLImageElement static radishM: HTMLImageElement static radishB: HTMLImageElement static saladS: HTMLImageElement static saladM: HTMLImageElement static saladB: HTMLImageElement static celleryS: HTMLImageElement static celleryM: HTMLImageElement static celleryB: HTMLImageElement static water: HTMLImageElement static fertilize: HTMLImageElement static bug: HTMLImageElement static empty: HTMLImageElement

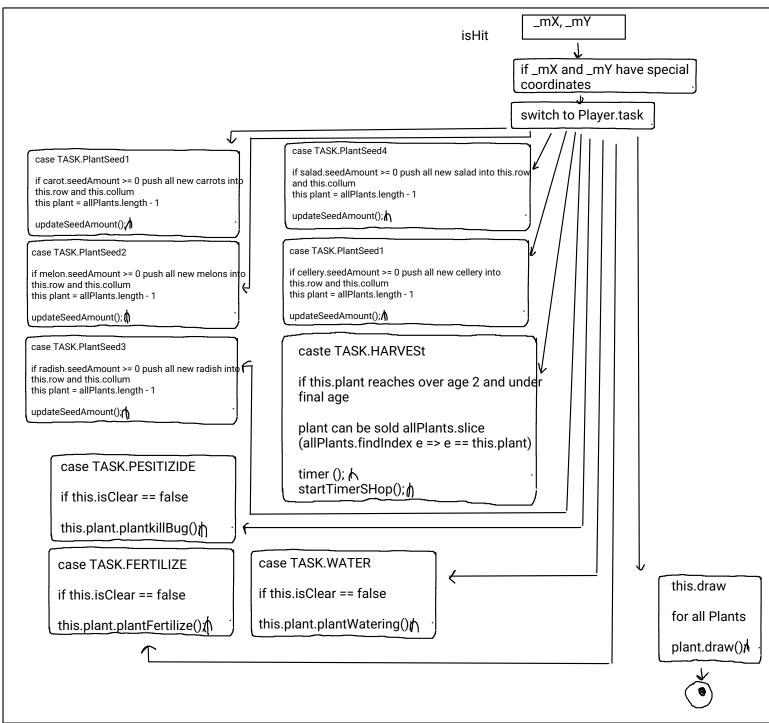


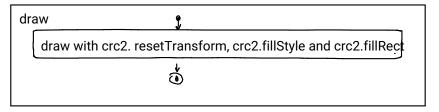


—Field

row: number collum: number color: string isClear: boolean plant: Plant





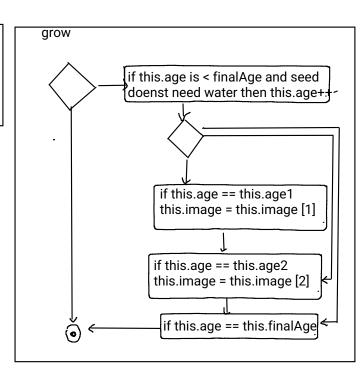


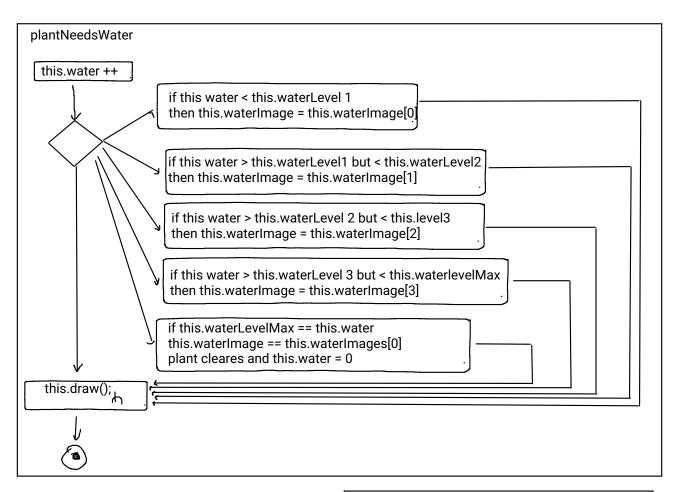
-Plant

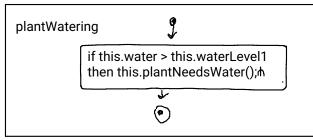
static image: HTMLImageElement static price: number static priceNew: number static seedamount: number sellPrice: number type: string images. HTMLImageElement image: HTMLImageElement waterImages: HTMLImageElement waterImage: HTMLImageElement fertilmage: HTMLImageElement currentcolor: string row: number collum: number age: number finalAge: number age1: number age2: number price: number needsWater: boolean = false bugs: Bug[] = [] plant: Plant water: number waterLevel1: number waterl evel2: number waterLevel3: number waterLevelMax: number duenger: number duengerLevel1: number duengerLevel2: number duengerLevel3: number duengerLevelMax: numberr

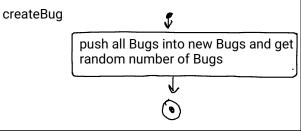
constructor

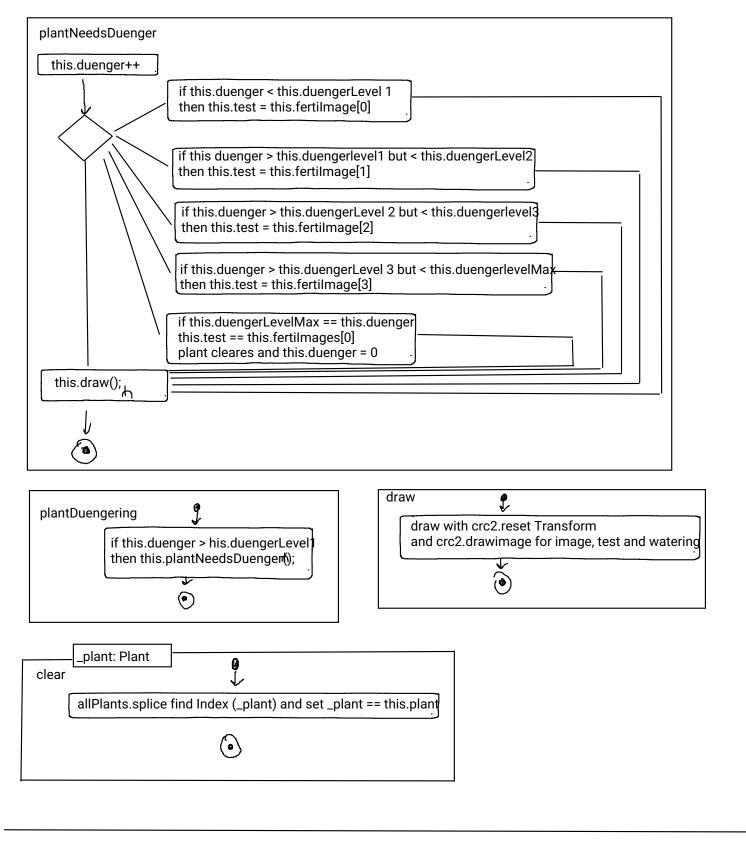
this.row = _row
this collum = _collum.

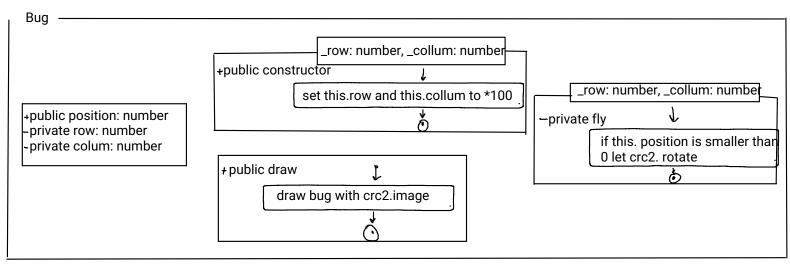


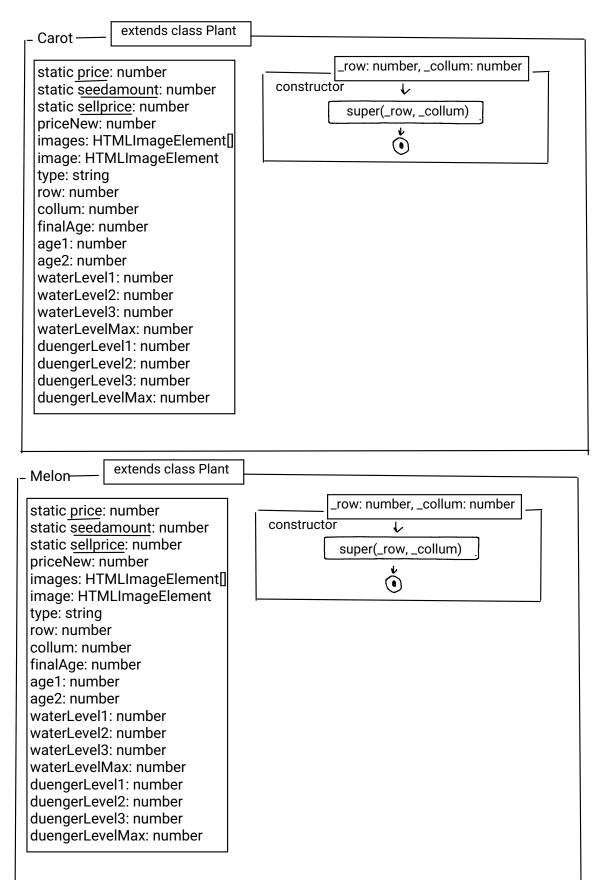


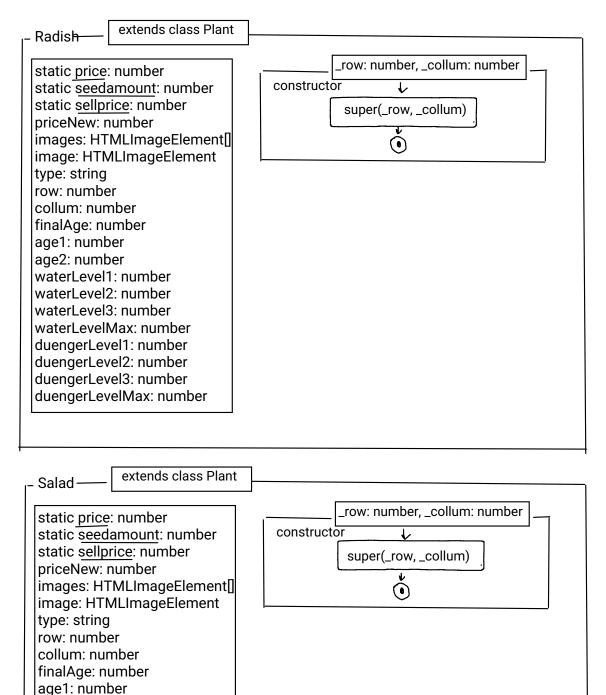












age2: number

waterLevel1: number waterLevel2: number waterLevel3: number waterLevelMax: number duengerLevel1: number duengerLevel2: number duengerLevel3: number duengerLevelMax: number

extends class Plant Cellery _row: number, _collum: number static price: number constructor static seedamount: number static sellprice: number super(_row, _collum) priceNew: number <u>*</u> images: HTMLImageElement[] image: HTMLImageElement type: string row: number collum: number finalAge: number age1: number age2: number waterLevel1: number waterLevel2: number waterLevel3: number waterLevelMax: number duengerLevel1: number duengerLevel2: number duengerLevel3: number duengerLevelMax: number