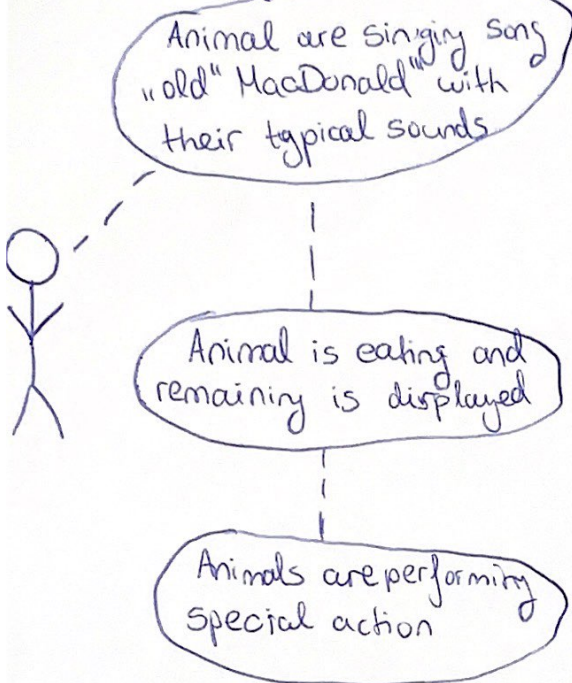
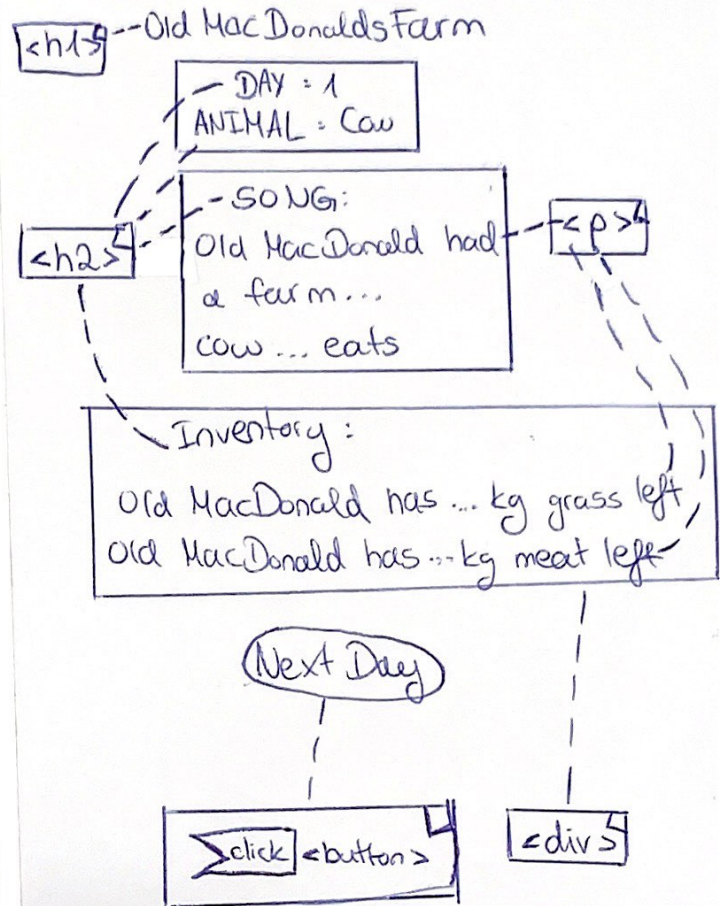


Use-Case

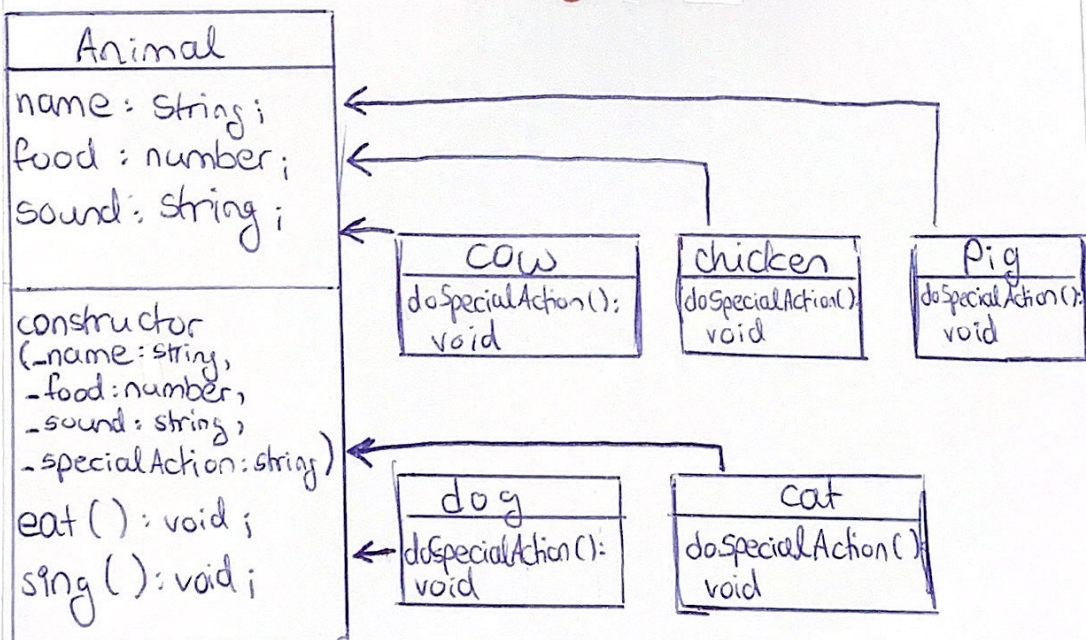
System



UI-Scribble



class Diagram



Farm

main

```

counter = number = 0;
let inventoryAmount : Inventory [];
let max Grass: number = 100;
let max Heat: number = 20;
let max Combust: number = 90;
let max Grains : number = 20;
let day: number = 1;
let specialAction = HTMLElement;
    
```

```

let animals : Animal [] = [];
let chicken : chicken = new Chicken ("Donald", "grains", "cock", "1 kg");
let cow : cow = new Cow ("Lilia", "grass", "100 kg");
let pig : pig = new Pig ("Sia", "compart", "stink", "5 kg");
let dog : Dog = new Dog ("Beam", "meat", "woof", "2 kg");
let cat : Cat = new Cat ("Barisk", "fish", "meow", "1 kg");
    
```

push chicken, cow, pig, dog and cat in animals array

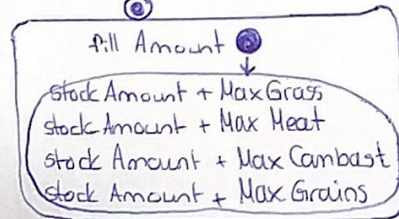
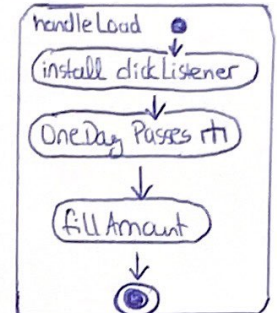
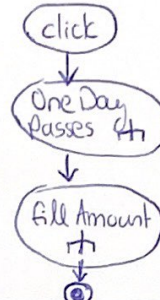
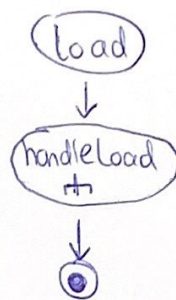
One Day Passes

let animal : first item in animals Array

```

animal.toString();
animal.eat();
animal.doespecialAction();
    
```

Activity Diagram



Animal

Constructor

```
- name: string;  
- food: number;  
- sound: string;  
- specialAmount: string;
```

```
this.name = -name;  
this.food = -food;  
this.sound = -sound;  
this.specialAction = -specialAction;
```

sing

create new div - Element and
set class of div - Element to song

set innerHTML of div to :

```
"<p>" old MacDonald had a farm" <br>  
"Ee! ee! oh!" <br>  
"And on this farm I had " + this.name + " <br>  
"Ee! ee! oh!" <br>  
"With a " + this.sound + " - " + this.sound + "there" <br>  
"And a " + this.sound + " - " + this.sound + "there" <br>  
"Here a " + this.sound + " - " + this.sound + "there" <br>  
"Everywhere a " + this.sound + " - " + this.sound + "there" <br>  
"And " + this.specialAction + " <br>  
"old MacDonald had a farm" <br>  
"Ee! ee! oh!" </p>
```

append div to body

eat

[this.food > inventoryAmount]
[this.food <= inventoryAmount]

let eating = HTMLElement

eating = this.name + "eat5"
+ -food

console.log
("not enough food
for the animal")

cow

doSpecialAction

specialAction = "the cow gave
10 liters of milk."

console.log("Lilia gave 10
liters of milk.")

chicken

doSpecialAction

specialAction = "the chicken
laid 8 eggs."

console.log("Donald laid
8 eggs.")

Pig

doSpecialAction

specialAction = "the pig rolls in the mud."

console.log("Sia rolls in the mud.")

Dog

doSpecialAction

specialAction = "the dog Beam barks a lot."

console.log("Beam barks a lot.")

cat

doSpecialAmount

specialAction = "the cat can catch mice."

console.log("Barsik can catch mice.")