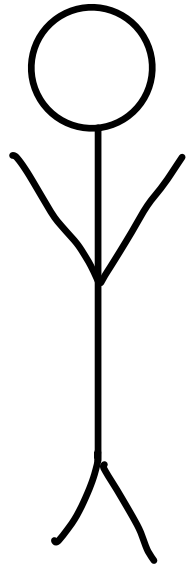


# Konzepte

## Use - Case - Diagramm



System

Animal are singing  
song , old Mac Donald  
with their typical  
sounds

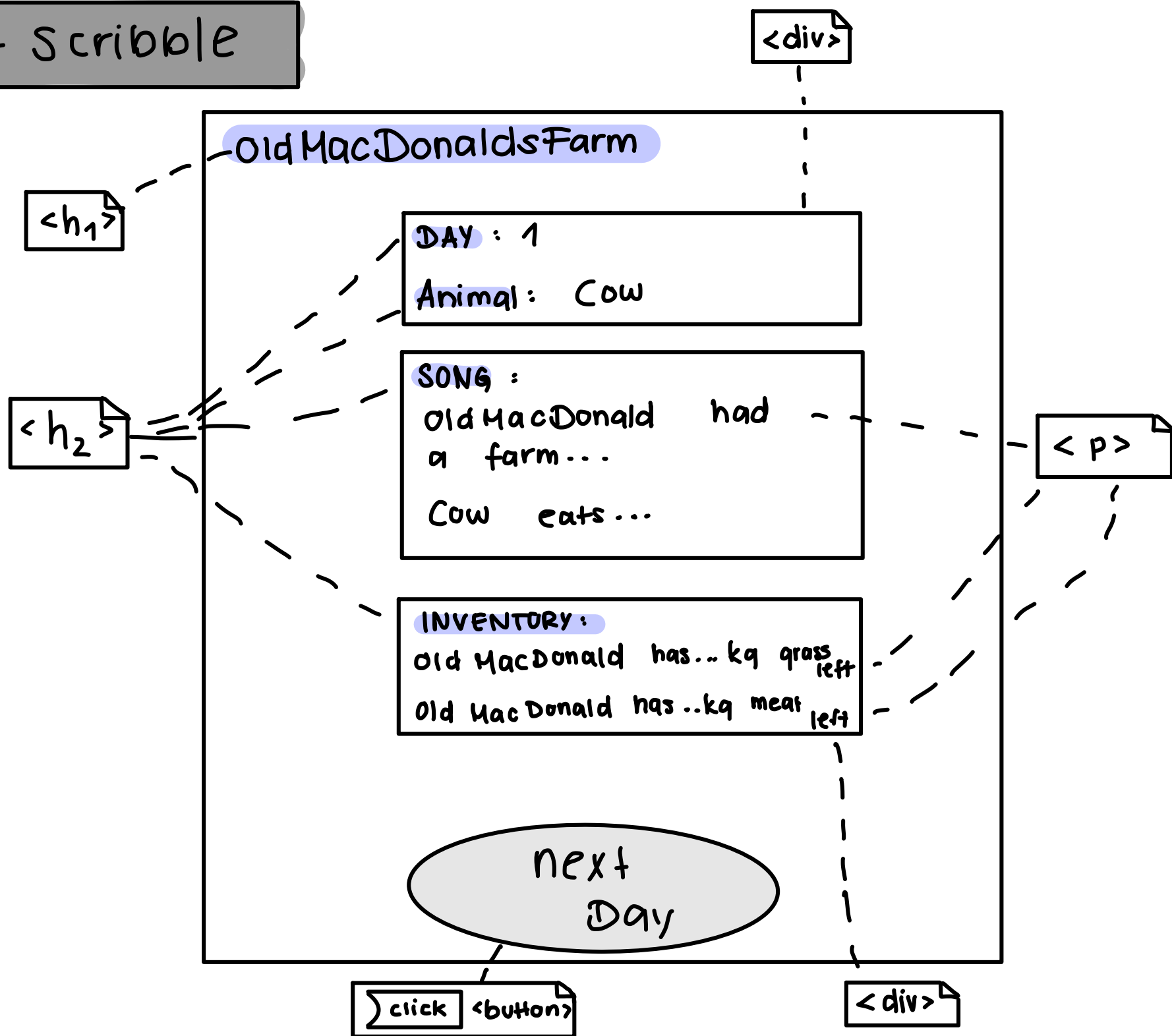
:

animal is eating  
and remaining  
is displayed

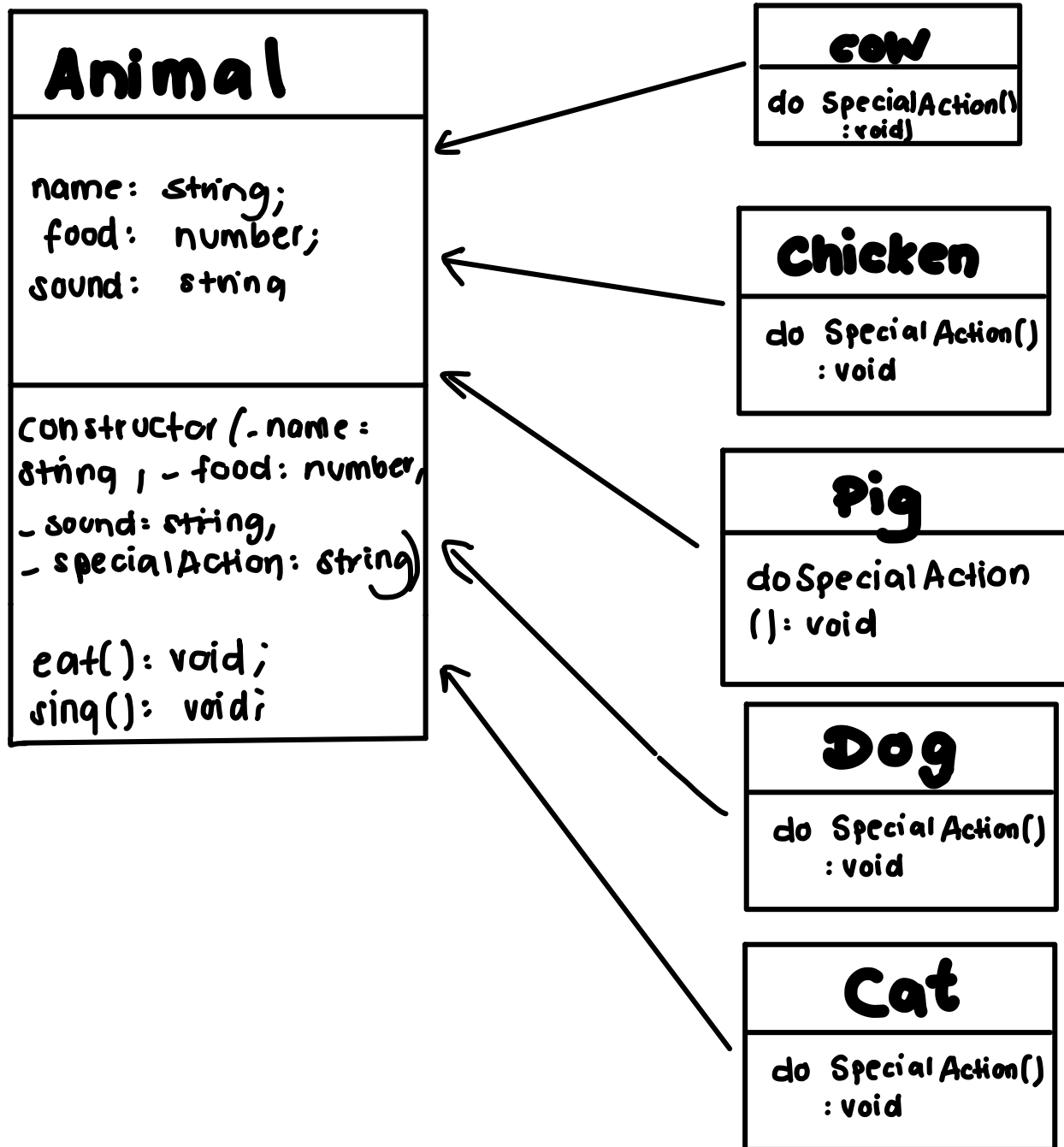
:

Animals are  
performing  
special action

# UI - Scribble



# Klassendiagramm



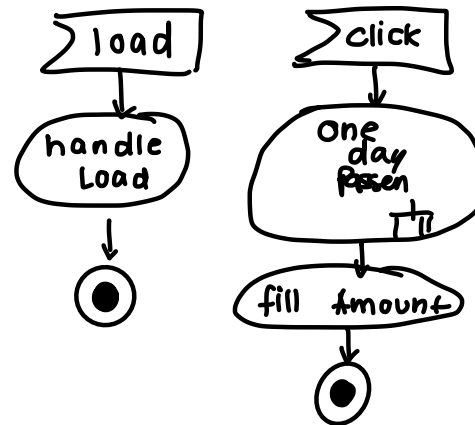
# Aktivitätsdiagramm

## main

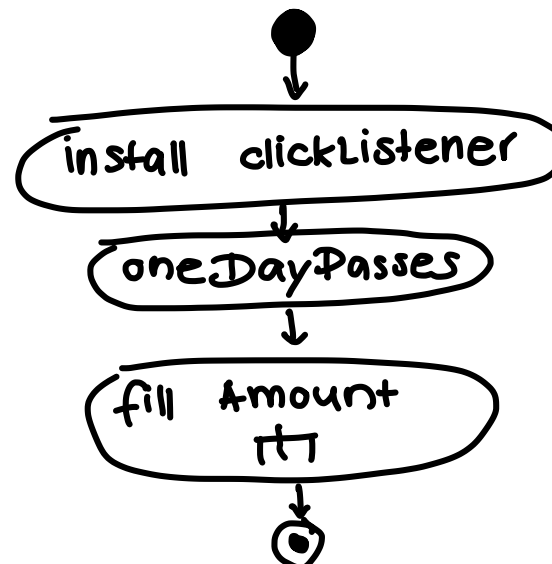
```
counter: number = 0;  
let inventory amount: inventory [];  
let max Grass: number = 100;  
let max Meat: number = 20;  
let max Grains: number = 20;  
let day: number = 1;  
let special Action: HTML Element;
```

```
let animals: Animal [] = [];  
let chicken: Chicken = new Chicken (...);  
let cow: Cow = new Cow (...);  
let pig: Pig = new Pig (...);  
let dog: Dog = new Dog (...);  
let cat: Cat = new Cat (...);
```

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



## handleload



## fill Amount

```
inventory Amount + Max Grass  
inventory Amount + Max Meat  
inventory Amount + Max Corn  
inventory Amount + Max Grains
```

## oneDayPasses

```
let animal first  
item in animals  
array
```

```
animal.sing();  
animal.eat();  
animal.doSpecialAction();
```

# Animal

## constructor

```
- name: string  
- food: number  
- sound: string  
- specialAction: string
```

```
this.name = _name;  
this.food = _food;  
this.sound = _sound;  
this.specialAction = _specialAction;
```



## sing

create new div Element  
and set class of div  
to song

set innerHTML  
of div

append div  
to body



## eat

[this.food > stockAmount]

[this.food  
> stockAmount]

let eating = HTML Element

eating = this.name + " eats "  
+ \_food

console.log



## Cow

do Special Action

specialAction =  
"the cow gave  
10 litres of  
milk"

console.log



## Chicken

do Special Action

specialAction =  
"the chicken laid  
9 eggs"

console.log



## Pig

do Special Action

specialAction =  
"the pig rolls  
in dirt"

console.log



## Dog

do Special Action

specialAction =  
"the dog  
barks"

console.log



## Cat

do Special Action

specialAction =  
"the cat  
plays a lot"

console.log

