Scenarior: Tänk på allt som kan hända. Om kaffe koppar e slut, om kaffet e slut, om mjölken e slut osv.

Kaffemaskinens egenskaper:

* Ska kunna göra drycker
* Ska ha muggar
* Ska ha en display
* Ska kosta 10 kr för valfri dryck
* Ska ta mynt
* Ska ta kreditkort
* Ska kunna göra vanligt kaffe (svart), kaffe latte (kaffe med mjölk), varm choklad( mjölk plus choklad)

Utseende:

Kaffe maskinen bör ha ett myntinkast, en kortläsare, en startknapp samt en display.

Displayen bör visa att maskinen håller på att göra drycken. Utöver det så bör det stå “start” när man har lagt in tillräckligt med pengar, vilket sen gör att beställaren trycker på start knappen.

Start knappen startar kaffemaskinen som börjar göra drycken. Om beställaren inte har lagt in tillräckligt med pengar så kommer det upp ett meddelande på displayen där det står “10 kr krävs för att starta maskinen och välja dryck.” (eventuellt hur mycket pengar som e kvar att betala). Till kaffet och kaffe lattet så behövs det 13 gram av kaffe pulver för att det ska levereras. Det behövs 20 centiliter mjölk för kaffe lattet och den varma chokladen. Slutligen så behövs det 13 gram choklad pulver för den varma chokladen.

**API-specifikation**:

**Class**: CoffeeMachine

**Egenskaper**:

pluggedIn

Called to make sure that the machine is plugged in

return value: nothing

insertedCoin

Called to make sure that the user has put in a 10 kr coin

type: number (SEK/kr)

initial value: 10

insertedCard

Called to make sure that the user has paid with a credit card

type: number (SEK/kr)

initial value: 10

connectedToWater

Called to make sure that there is water in the machine

return value: nothing

numberOfCups

Called to make sure that there’s enough cups in the machine

type: number

initial value: 30

displayScreen

Called to make sure that the user can see if a error occurs

type

coffeePerCups

Called to make sure that there’s enough coffee powder to make the coffee

type: number (grams)

initial value: 13

chocolatePerCups

Called to make sure that there’s enough chocolate powder to make the hot chocolate

type: number (grams)

initial value: 13

milkPerCups

Called to make sure that there’s enough milk to make the caffe latte and the hot chocolate

type: number (centiliter)

initial value: 20

**Methods**:

plugIn()

insertCoin (inserted)

insertCard (inserted)

fillWithCoffee(amount) {

// add amount to total amount of

// ground coffee in the machine

this.coffeePerCups += amount;

fillWithCups(amount) {

// add amount of cups to the

// total number of cups in the machine

this.numberOfCups += amount;

}

fillWithMilk{

// add amount of milk to the

// total number of cups in the machine

this.milkPerCups += amount;

}

connectToWater() {

this.connectedToWater = true;

}

Feature 1:

As a coffee buyer

I want a basic machine

I can put a 10 kr coin in

Or put my credit card in

And get a black cup of coffee.

Scenario 1:

Given that the machine is plugged in

And that water is available

And that the machine has ground coffee

And the machine has plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user receives a cup of coffee.

Scenario 1.2:

Given that the machine is plugged in

And that water is available

And that the machine has ground coffee

And the machine has plastic cups

When the user inserts their credit card

And presses the start button

Then the user receives a cup of coffee.

Scenario 1.3:

Given that the machine isn’t plugged in

And the water is available

And that the machine has ground coffee

And that the machine has plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a cup of coffee

And they’ll get the coin back

Scenario 1.4:

Given that the machine isn’t plugged in

And the water is available

And that the machine has ground coffee

And that the machine has plastic cups

When the user inserts their credit card

And presses the start button

Then the user won’t receive a cup of coffee

Scenario 1.5:

Given that the machine is plugged in

And the water isnt available

And that the machine has ground coffee

And that the machine has plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a cup of coffee.

Scenario 1.6:

Given that the machine is plugged in

And the water isnt available

And that the machine has ground coffee

And that the machine has plastic cups

When the user inserts credit card

And presses the start button

Then the user won’t receive a cup of coffee

Scenario 1.7:

Given that the machine is plugged in

And the water is available

And that the machine doesn’t have ground coffee

And that the machine has plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a cup of coffee

Scenario 1.8:

Given that the machine is plugged in

And the water is available

And that the machine doesn’t have ground coffee

And that the machine has plastic cups

When the user blips his credit card

And presses the start button

Then the user won’t receive a cup of coffee

Scenario 1.9:

Given that the machine is plugged in

And the water is available

And that the machine has ground coffee

And that the machine doesn’t have plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a cup of coffee

Scenario 1.10:

Given that the machine is plugged in

And the water is available

And that the machine has ground coffee

And that the machine doesn’t have plastic cups

When the user puts in their credit card

And presses the start button

Then the user won’t receive a cup of coffee

Scenario 1.11:

Given that the machine is plugged in

And the water is available

And that the machine has ground coffee

And that the machine has plastic cups

When the user tries to insert a shirt button

And presses the start button

Then the user won’t receive a cup of coffee

And a error message will come up on the display

Scenario 1.12:

Given that the machine is plugged in

And the water is available

And that the machine has ground coffee

And that the machine has plastic cups

When the user inserts a 10 kr coin

And the start button doesn’t work

Then the user won’t receive a cup of coffee

And a error message will come up on the display

And they’ll get the coin back

Scenario 1.13:

Given that the machine isn’t plugged in

And the water isn’t available

And that the machine has ground coffee

And that the machine has plastic cups

When the user inserts a 10 kr coin

And the user presses the start button

Then the user won’t receive a cup of coffee

And they’ll get the coin back

Scenario 1.14:

Given that the machine is plugged in

And that water is available

And that the machine has ground coffee

And the machine has plastic cups

When the user tries to insert a 5 kr coin

And presses the start button

Then the display will show a message saying that you need to insert 10 kr to get the coffee

Then the user won’t receive a cup of coffee.

Feature 2:

As a drink buyer

I want a basic machine

I can put a 10 kr coin in

Or put my credit card in

And get a caffe latte.

Scenario 2:

Given that the machine is plugged in

And that water is available

And that the machine has ground coffee

And that the machine has enough lactose free milk

And the machine has plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user receives a caffe latte.

Scenario 2.1:

Given that the machine is plugged in

And that water is available

And that the machine has ground coffee

And that the machine has enough lactose free milk

And the machine has plastic cups

When the user inserts their credit card

And presses the start button

Then the user receives a caffe latte.

Scenario 2.2:

Given that the machine is plugged in

And the water isn't available

And that the machine has ground coffee

And that the machine has enough lactose free milk

And that the machine has plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a caffe latte

Scenario 2.3:

Given that the machine is plugged in

And the water isn't available

And that the machine has ground coffee

And that the machine has enough lactose free milk

And that the machine has plastic cups

When the user inserts their credit card

And presses the start button

Then the user won’t receive a caffe latte

Scenario 2.4:

Given that the machine isn’t plugged in

And the water is available

And that the machine has ground coffee

And that the machine has plastic cups

And that the machine has enough lactose free milk

When the user inserts their credit card

And presses the start button

Then the user won’t receive a caffe latte

Scenario 2.5:

Given that the machine isn’t plugged in

And that water is available

And that the machine has ground coffee

And that the machine has enough lactose free milk

And the machine has plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a caffe latte.

Scenario 2.6:

Given that the machine is plugged in

And that water is available

And that the machine doesn’t have enough ground coffee

And that the machine has enough lactose free milk

And the machine has plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user receives a caffe latte.

Scenario 2.7:

Given that the machine is plugged in

And that water is available

And that the machine doesn’t have enough ground coffee

And that the machine has enough lactose free milk

And the machine has plastic cups

When the user inserts their credit card

And presses the start button

Then the user receives a caffe latte.

Scenario 2.8:

Given that the machine is plugged in

And that water is available

And that the machine has ground coffee

And that the machine doesn’t have enough lactose free milk

And the machine has plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user receives a caffe latte.

Scenario 2.9:

Given that the machine is plugged in

And that water is available

And that the machine has ground coffee

And that the machine doesn’t have enough lactose free milk

And the machine has plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user receives a caffe latte.

Scenario 2.10:

Given that the machine is plugged in

And that water is available

And that the machine has ground coffee

And that the machine doesn’t have enough lactose free milk

And the machine has plastic cups

When the user inserts their credit card

And presses the start button

Then the user receives a caffe latte.

Scenario 2.11:

Given that the machine is plugged in

And that water is available

And that the machine has ground coffee

And that the machine has lactose free milk

And the machine doesn’t have plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a caffe latte.

Scenario 2.12:

Given that the machine is plugged in

And that water is available

And that the machine has ground coffee

And that the machine doesn’t has lactose free milk

And the machine doesn’t have plastic cups

When the user inserts their credit card

And presses the start button

Then the user won’t receive a caffe latte.

Scenario 2.13:

Given that the machine isn’t plugged in

And the water isn’t available

And that the machine has ground coffee

And that the machine has plastic cups

And that the machine has enough lactose free milk

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a caffe latte

Scenario 2.14:

Given that the machine isn’t plugged in

And the water isn’t available

And that the machine has ground coffee

And that the machine has plastic cups

And that the machine has enough lactose free milk

When the user inserts their credit card

And presses the start button

Then the user won’t receive a caffe latte

Scenario 2.15:

Given that the machine isn’t plugged in

And the water isn’t available

And that the machine doesn’t have enough ground coffee

And that the machine has plastic cups

And that the machine has enough lactose free milk

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a caffe latte

Scenario 2.16:

Given that the machine isn’t plugged in

And the water isn’t available

And that the machine doesn’t have enough ground coffee

And that the machine has plastic cups

And that the machine has enough lactose free milk

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a caffe latte

Scenario 2.17:

Given that the machine isn’t plugged in

And the water isn’t available

And that the machine doesn’t have enough ground coffee

And that the machine doesn’t have plastic cups

And that the machine has enough lactose free milk

When the user inserts their credit card

And presses the start button

Then the user won’t receive a caffe latte

Scenario 2.18:

Given that the machine is plugged in

And that water is available

And that the machine has ground coffee

And the machine has plastic cups

When the user tries to insert a 5 kr coin

And presses the start button

Then the display will show a message saying that you need to insert 10 kr to get the coffee

Then the user won’t receive a caffe latte.

Feature 3:

As a drink buyer

I want a basic machine

I can put a 10 kr coin in

Or put my credit card in

And get a hot chocolate back.

Scenario 3:

Given that the machine is plugged in

And that water is available

And that the machine has chocolate powder

And that the machine has enough lactose free milk

And the machine has plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user receives a hot chocolate.

Scenario 3,1:

Given that the machine is plugged in

And that water is available

And that the machine has chocolate powder

And that the machine has enough lactose free milk

And the machine has plastic cups

When the user inserts their credit card

And presses the start button

Then the user receives a hot chocolate.

Scenario 3.2:

Given that the machine isn’t plugged in

And that water is available

And that the machine has chocolate powder

And that the machine has enough lactose free milk

And the machine has plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a hot chocolate.

Scenario 3.3:

Given that the machine isn’t plugged in

And that water is available

And that the machine has chocolate powder

And that the machine has enough lactose free milk

And the machine has plastic cups

When the user inserts their credit card

And presses the start button

Then the user won’t receive a hot chocolate.

Scenario 3.4:

Given that the machine is plugged in

And the water isn’t available

And that the machine has chocolate powder

And that the machine has enough lactose free milk

And that the machine has plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a hot chocolate

Scenario 3.5:

Given that the machine is plugged in

And the water isn’t available

And that the machine has chocolate powder

And that the machine has enough lactose free milk

And that the machine has plastic cups

When the user inserts their credit card

And presses the start button

Then the user won’t receive a hot chocolate

Scenario 3.6:

Given that the machine is plugged in

And the water is available

And that the machine doesn’t have chocolate powder

And that the machine has enough lactose free milk

And that the machine has plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a hot chocolate

Scenario 3.7:

Given that the machine is plugged in

And the water is available

And that the machine doesn’t have chocolate powder

And that the machine has enough lactose free milk

And that the machine has plastic cups

When the user inserts their credit card

And presses the start button

Then the user won’t receive a hot chocolate

Scenario 3.8:

Given that the machine is plugged in

And the water is available

And that the machine has chocolate powder

And that the machine doesn’t have enough lactose free milk

And that the machine has plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a hot chocolate

Scenario 3.9:

Given that the machine is plugged in

And the water is available

And that the machine has chocolate powder

And that the machine doesn’t have enough lactose free milk

And that the machine has plastic cups

When the user inserts their credit card

And presses the start button

Then the user won’t receive a hot chocolate

Scenario 3.10:

Given that the machine is plugged in

And the water is available

And that the machine has chocolate powder

And that the machine doesn’t have enough lactose free milk

And that the machine has plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a hot chocolate

Scenario 3.11:

Given that the machine is plugged in

And the water is available

And that the machine has chocolate powder

And that the machine doesn’t have enough lactose free milk

And that the machine has plastic cups

When the user inserts their credit card

And presses the start button

Then the user won’t receive a hot chocolate

Scenario 3.12:

Given that the machine is plugged in

And the water is available

And that the machine has chocolate powder

And that the machine has enough lactose free milk

And that the machine doesn’t have plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a hot chocolate

Scenario 3.13:

Given that the machine is plugged in

And the water is available

And that the machine has chocolate powder

And that the machine has enough lactose free milk

And that the machine doesn’t have plastic cups

When the user inserts their credit card

And presses the start button

Then the user won’t receive a hot chocolate

Scenario 3.14:

Given that the machine is plugged in

And the water is available

And that the machine has chocolate powder

And that the machine has enough lactose free milk

And that the machine has plastic cups

When the user tries to insert a random card that isn’t a credit card

And presses the start button

Then the user won’t receive a hot chocolate

And a error message will come up on the display

Scenario 3.15:

Given that the machine isn’t plugged in

And the water isn’t available

And that the machine has chocolate powder

And that the machine has enough lactose free milk

And that the machine has plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a hot chocolate

Scenario 3.16:

Given that the machine isn’t plugged in

And the water isn’t available

And that the machine has chocolate powder

And that the machine has enough lactose free milk

And that the machine has plastic cups

When the user inserts their credit card

And presses the start button

Then the user won’t receive a hot chocolate

Scenario 3.17:

Given that the machine isn’t plugged in

And the water isn’t available

And that the machine doesn’t have enough chocolate powder

And that the machine has enough lactose free milk

And that the machine has plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a hot chocolate

Scenario 3.18:

Given that the machine isn’t plugged in

And the water isn’t available

And that the machine doesn’t have enough chocolate powder

And that the machine has enough lactose free milk

And that the machine has plastic cups

When the user inserts a credit card

And presses the start button

Then the user won’t receive a hot chocolate

Scenario 3.19:

Given that the machine isn’t plugged in

And the water isn’t available

And that the machine doesn’t have enough chocolate powder

And that the machine doesn’t have enough lactose free milk

And that the machine has plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a hot chocolate

Scenario 3.20

Given that the machine isn’t plugged in

And the water isn’t available

And that the machine doesn’t have enough chocolate powder

And that the machine doesn’t have enough lactose free milk

And that the machine has plastic cups

When the user inserts their credit card

And presses the start button

Then the user won’t receive a hot chocolate

Scenario 3.21:

Given that the machine isn’t plugged in

And the water isn’t available

And that the machine doesn’t have enough chocolate powder

And that the machine doesn’t have enough lactose free milk

And that the machine doesn’t have plastic cups

When the user inserts a 10 kr coin

And presses the start button

Then the user won’t receive a hot chocolate

Scenario 3.22:

Given that the machine isn’t plugged in

And the water isn’t available

And that the machine doesn’t have enough chocolate powder

And that the machine doesn’t have enough lactose free milk

And that the machine doesn’t have plastic cups

When the user inserts their credit card

And presses the start button

Then the user won’t receive a hot chocolate

Scenario 3.23:

Given that the machine is plugged in

And that water is available

And that the machine has ground coffee

And the machine has plastic cups

When the user tries to insert a 5 kr coin

And presses the start button

Then the display will show a message saying that you need to insert 10 kr to get the coffee

Then the user won’t receive a hot chocolate.