

Software Project: Smart Refrigerator

On ebay you can buy a Cocktail machine for 10.005,00 €. This semester we will program such a machine



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Was suchen Sie?

eBay > Business & Industrie > Gastro & Nahrungsmittelgewerbe > Kaffee- & Bar-Technik > Ausschank & Bar > Ausschanktechnik > Schank- & Zapfanlagen

Cocktailmaschine



1 Aufrufe pro Stunde



EUR 10.000,00

+ EUR 4,99 Versand

oder Preisvorschlag

Lieferung bis spätestens **Mi, 29. Mai - Fr, 31. Mai** aus Karlsruhe, Deutschland

- **Gebraucht** Zustand
- Keine Rücknahme

"Der Bottle Tender ist unser Gerät für den kleineren und mittleren Cocktailbedarf. Das Gerät ist gepflegt und stets gereinigt. Es ist voll funktionsfähig. Zu betonen ist also, dass die"

[Lesen Sie die vollständige Beschreibung](#)
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The LabVIEW GUI shall look similar to the provided mockup:

The Cocktail Machine

Ingredient 1

Ingredient 2

Ingredient 3

Ingredient 4

Ingredient 5

Ingredient 6

Ingredient 7

Status

Please select

Progress

OK Button

OK

OK Button 2

OK

OK Button 3

OK

OK Button 4

OK

OK Button 5

OK

OK Button 6

OK

Credit

5 €

Purchase

Maintenance

Refill

Stop

5 €

2 €

1 €

0.5 €

WALLET

Following Requirements are derived for the cocktail machine:

Status Indicator: The status indicator shall display the status information of the cocktail machine

REQ_01.01	The "ON" Led shall display the status of the cocktail machine. It shall be turned on after the initialization of the machine. It shall be turned off if the cocktail machine is turned off.
REQ_01.02	The "status" string shall indicate the following status messages: <ul style="list-style-type: none">- "Please wait, cleaning and prepare everything for you" in the initialization phase- "Please select your drink" after startup and after each served drink.- "Missing ingredient. Please refill XX" if the ingredient XX is missing.- "Admin Mode enabled" if the Maintenance Button is pressed.- During preparation of the drink the status will display all information provided by the recipe.- "Not enough money ..." If the credit is not enough- "Take our chance" after preparation.
REQ_01.03	The progress bar shall display the overall length of preparation.

Power Button:

REQ_02.01	The "Stop" button shall stop the VI.
REQ_02.02	The stop button shall be invisible by default.
REQ_02.03	The stop button will be visible after clicking the Maintenance button.

Wallet:

REQ_03.01	The "Wallet" shall increase the credit.
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Maintenance Button:

REQ_04.01	Maintenance Button shall be a switch
REQ_04.02	"Maintenance Button" = True, Stop and Refill visible
REQ_04.03	"Maintenance Button" = False, Stop and Refill invisible

CSV. Files

REQ_05.01	The recipes of the machine shall be stored in separated csv. Files "Drinkname.csv"
REQ_05.02	The content shall be <Item Name>, < amount of ingredient >, < time to prepare >, < Statusmessage>
REQ_05.03	The csv files shall be stored in a separate folder "recipes"

Ok Buttons and drinks

REQ_06.01	The OK buttons 1 -> Button 6 shall display the drink names.
REQ_06.02	Drink 1: Coke "cola.csv" file shall be: Cola, 200 ml, 7 seconds, please wait for your coke!
REQ_06.03	Drink 2: Water "water.csv" file shall be: Water, 200 ml, 8 seconds, please wait for your water!
REQ_06.04	Drink 3: Water-juice "waterjuice.csv" file shall be: Water, 150 ml, 5 seconds, please wait for your water! juice, 50 ml, 4 seconds, mmmm juice..
REQ_06.05	Drink 4: Whisky-cola "Whisky-cola.csv" file shall be: Whiskey, 20 ml, 3 seconds, wait for whisky ! Cola, 180 ml, 5 seconds, adding coke to it!
REQ_06.06	Drink 5: Whisky-sour "Whisky- sour.csv" file shall be: Whiskey, 60 ml, 3 seconds, wait for whisky ! Lime, 30 ml, 4 seconds, lime juice.. Sugar, 20 ml, 5 seconds, sugar sugar ...
REQ_06.07	Drink 5: Caipirinha "Caipirinha.csv" file shall be: Rum, 50 ml, 3 seconds, wait for whisky ! Lime, 30 ml, 4 seconds, lime juice.. Sugar, 20 ml, 5 seconds, sugar sugar ...

Ingredients:

REQ_07.01	The ingredients are: Whisky Coke Sugar Lime Rum Water Juice
REQ_07.02	All ingredients shall have a capacity of 2 l
REQ_07.03	The button refill shall refill all to the maximum
REQ_07.04	The amount shall be updated during preparation.

General Features.

REQ_08.01	The machine shall store the amount of each cocktail and the overall amount of money in a separate ini.file.
REQ_08.02	The buttons shall be adjusted to the names of the csv files in the folder recipes.