**Software requirements**

**«Coffee machine LEI 700»**

Approved by Alex 12/30/2020 5:10 p.m.

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# Introduction

**Purpose of document**

The document contains setting a task for the Control System coffee machine LEI700 menu developing.

Project objectives and requirements are fixed in this document.

The Control System coffee machine LEI700 menu developing work is carried out based on information given in this document. The introduction of changes requires additional agreement after approval.

**General information**

The system is designed for coffee order in coffee machines.

There are two types of users:

* Customer - any user who wants to buy coffee;
* Service man – service company representative who serves this coffee machine.

According to these types of users the System is divided into two parts: Customer part and Service man part.

# Main menu

|  |  |
| --- | --- |
| ID | Requirement description |
| R 1.1 | There is current Customer balance, buttons: «1 – Deposit money», «2 – Espresso <price>», «3 – Cappuccino <price>», «4 – Latte <price>» for Customer and a button «5 – Service» for Service man in the Main menu.  And (or) if there are no cups the next information is shown: «We are very sorry but there are no cups left» and button «5 – Service». |
| R 1.2 | Current Customer balance is the sum of all funds contributed by the Customers without the sum of spent on coffee funds. Customer balance is reseted to zero after every withdrawal of proceeds. |
| R 1.3 | To protect against outsiders, the service man part is PIN protected. |

# Customer Menu

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| --- | --- |
| ID | Requirement description |
| R 2.1 | If there are no cups on the Main menu page after clicking on buttons «1 – Deposit money», «2 – Espresso <price>», «3 – Cappuccino <price>», «4 – Latte <price>»  the machine generates a message: «We are very sorry but there are no cups left» and goes back to the Main menu (ID R1.1).  Or if there are no cups the buttons for Customers will be missing on the Main menu (ID R1.1). |
| R 2.2 | If there is a cup at least on the Main menu page after clicking on button «1 – Deposit money» the machine shows a message «Please deposit coins. Pay attention that the coffee machine doesn’t give change» and there are buttons «1 – 10 coins», «2 – 20 coins», «3 – 50 coins», «4 – 1 BYN», «5 – 2 BYN». |
| R 2.3 | The Customer chooses any sum. The machine takes money and goes back to the Main menu with updated current Customer balance. |
| R 2.4 | The coffee machine doesn’t give change. |
| R 2.5 | If there is a cup at least on the Main menu page after clicking on buttons «2 – Espresso <price>» or «3 – Cappuccino <price>» or «4 – Latte <price>» the machine checks if there is enough money to buy selected kind of coffee. |
| R 2.6 | If there is not enough money the machine generates a message: «Please deposit money. Pay attention that the coffee machine doesn’t give change» and there are buttons «1 – 10 coins», «2 – 20 coins», «3 – 50 coins», «4 – 1 BYN», «5 – 2 BYN».  (R 2.3, R 2.4, R 2.5) |
| R 2.7 | If there is enough money The machine makes coffee and gives it to the Customer. At the same time there is current Customer balance and a phrase: «Here is the best Espresso/Cappuccino/Latte in the City. Please, help yourself!» on the screen. |
| R 2.8 | When the Customer takes his cup of coffee the machine goes back to the Main menu  (R 1.1). |

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# Service menu

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| --- | --- |
| ID | Requirement description |
| R 3.1 | On the Main menu page after clicking on button «5 – Service» the machine prompts the user to input PIN: «Please input PIN» or to go back with clicking on button. PIN is a four-digit password provided by a company to service men against signature. |
| R 3.2 | If PIN is input incorrectly the machine generates a message: «PIN is wrong. Please input PIN». There are three tries only for PIN input. |
| R 3.3 | If PIN is input incorrectly three times the system blocks with error code -1.  «The machine is blocked» is on the screen. |
| R 3.4 | If PIN is input correctly the machine opens the Service menu. There is current machine balance, current cups number and buttons: «1 – Add cups»; «2 – Withdrawal of proceeds», «3 – Back to Main Menu». |
| R 3.5 | After clicking on the button «1 – Add cups» the machine generates a message: «How many cups are you adding?» |
| R 3.6 | Service man enters a number of adding cups and the machine goes back to the Service menu with updated current cups number (R 3.4). The number of cups is not limited. . |
| R 3.7 | After clicking on the button «2 – Withdrawal of proceeds» the machine gives proceeds away, generates a message: «<proceeds> BYN were given away» and goes back to the Service menu. Machine balance is reseted to zero after every withdrawal of proceeds. |
| R 3.8 | Machine balance is a sum of all funds contributed by the Customers after previous withdrawal of proceeds. |

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# 4. Next steps

After agreement and approval of the Control System coffee machine LEI700 menu project any additional wishes for functionality will require separate approval and may entail changes of project schedule and budget.