

Application Documentation

Olist Challenge

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1 DESCRIPTION

A product registration application was implemented, the language used to build the application's functionalities was VBA and the excel tables served as a database. This construction strategy was used because it only had access to this tool at the moment and little time for development, but the application solves the problem in question.

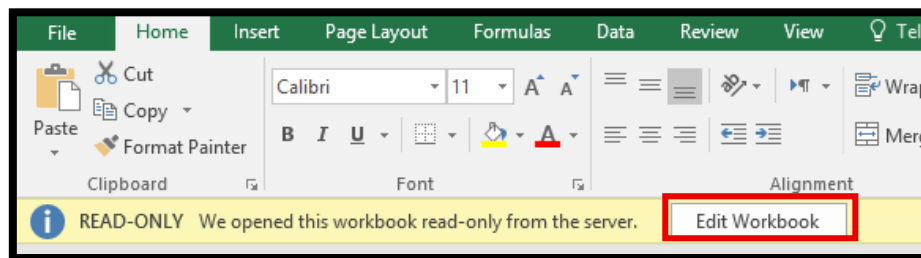
2 SETUP CONFIGURATION

For the code correctly execute their functionality the user must configure Excel, according with topics 2.1 and 2.2.

2.1 First Setup

When the file is opened, two messages will appear on the screen, a message to edit it and another to activate the code. For to avoid mistake on the code, the user has that click the buttons “Edit Workbook” (Figure 1) and “Enable Content” (Figure 2).

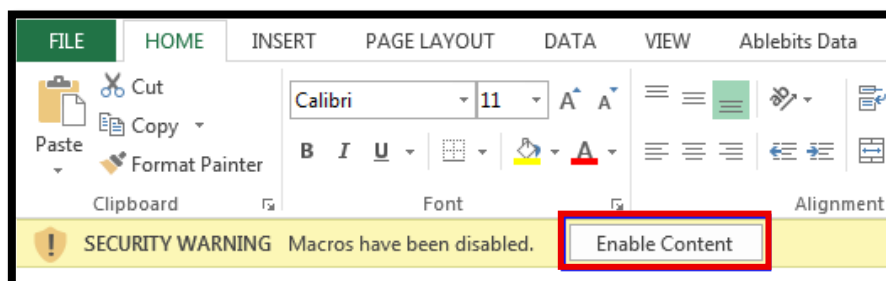
Figure 1 - Enable edit.



Source: Author of this document.

Security standard message generated by Excel (Figure 2).

Figure 2 - Enable code.



Source: Author of this document.

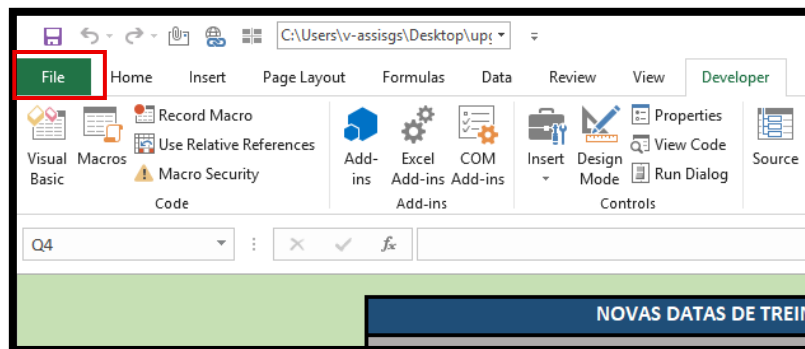
After enable the functions, the Excel is configured for run the code. This is normal procedure, however, in some cases application continue presenting errors compilation in the code.

For solve this problem it is necessary to make one more configuration, which going be explained in the next topic.

2.2 Second Setup

In Excel tools, navigate to “File” (Figure 3) and select.

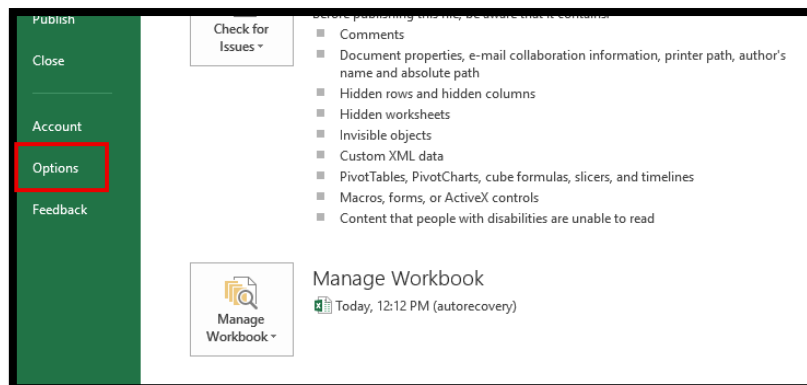
Figure 3 - File option.



Source: Author of this document.

Clicking on “File” going to open submenu according figure 4, select “Options”.

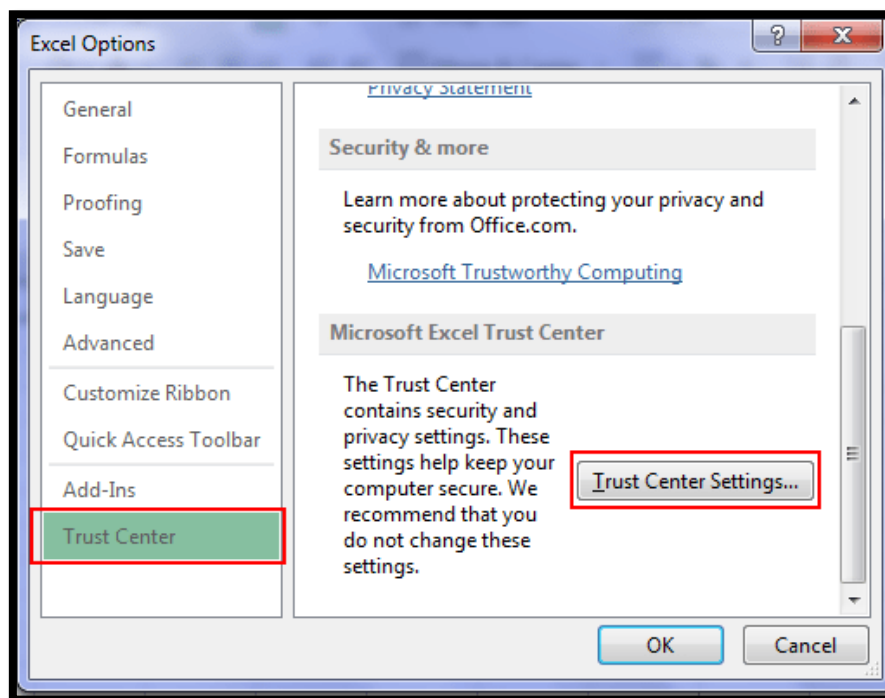
Figure 4 - Excel options.



Source: Author of this document.

Next step, to access the trust center as Figure 5 (Trust Center >Trust Center Settings).

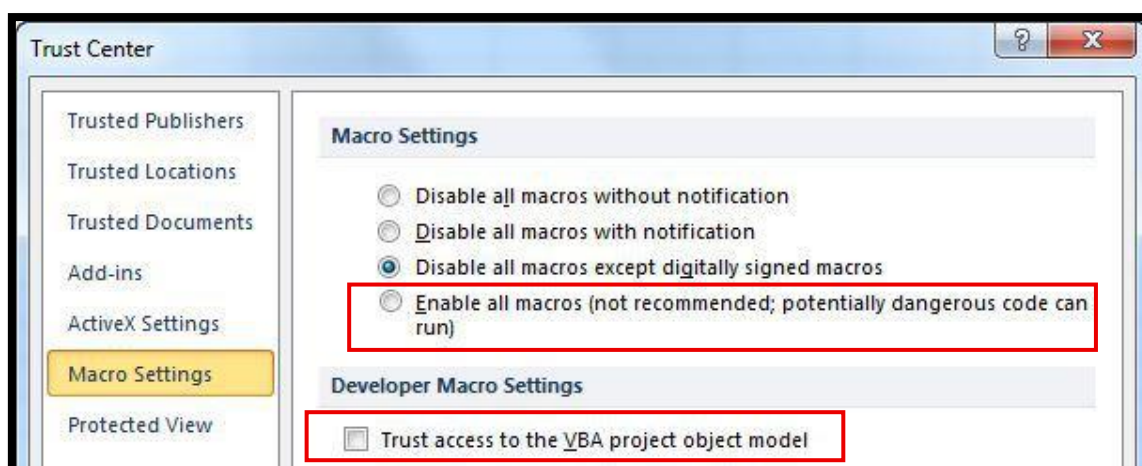
Figure 5 - Trust Center Settings



Source: Author of this document.

In the trust center settings click on the “Macro Settings” (Figure 6). And from there you can choose the security level for running code, in case choose “Enable all code” and “Trust access to the VBA project object model”.

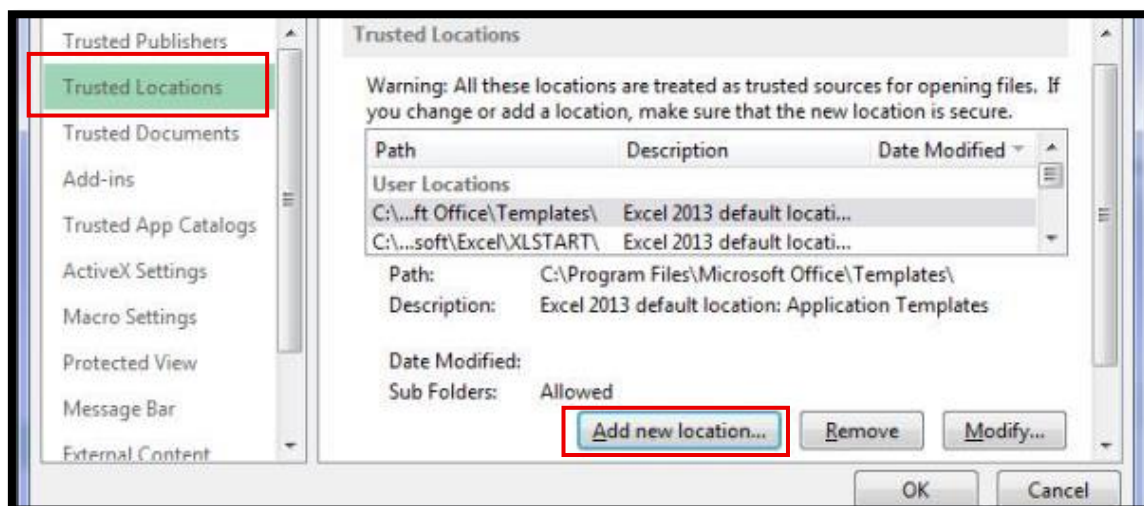
Figure 6 - Macro settings.



Source: Author of this document.

Then go to “Trusted Locations” and add location of the file using the “Add New Location” button.

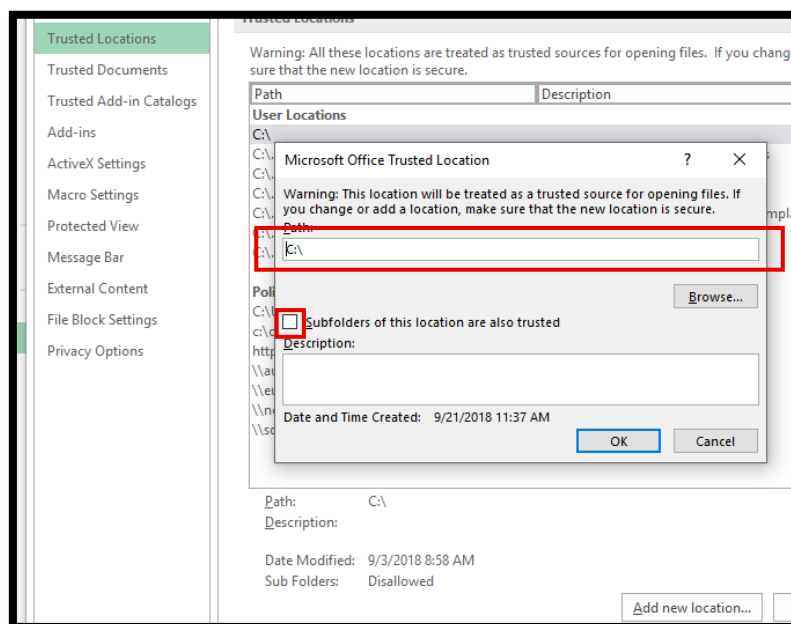
Figure 7 - Trusted locations.



Source: Author of this document.

Clicking on “Add new location” going to open a new window where will put the address file and will mark “Subfolders of this location are also trusted.”. Click on “OK”.

Figure 8 - Add address file.



Source: Author of this document.

Note: Before adding any location to trusted location list make sure the location is really a safe location.

3 RUNNING THE SOLUTION

The tool has a main screen (Figure 9) with 4 text fields, 1 list box, 3 buttons and 1 list view. The application has 6 main functionalities: create product, delete product, update product, show product list, search for product and import .CSV file with new product categories.

Figure 9 - Main Interface

[illegible]

Source: Author of this document.

3.1 Save button

To save a product in the database, it is necessary to fill in all the text fields, otherwise, a message will appear stating that the field is mandatory, after click the Save button (Figure 10).

Figure 10 -Create Product

Cadastro de Produto

Nome
Cortina

Descrição Produto
Azul 2 Metros

Valor
50.67

Categoria
Decoracao

Salvar Deletar Atualizar Categorias (CSV)

Source: Author of this document.

3.2 Delete Button

To delete a product, the user needs to double-click the item in the list, so that the mandatory fields are filled in automatically, then just click the Delete button and the item will leave the list (Figure 11). This functionality was implemented in this way to optimize the interface, the next topic will make the idea clearer.

Figure 11- Delete product

Cadastro de Produto

Nome
teste 7

Descrição Produto
teste 7 concluido

Valor
7

Categoria
Móveis

Salvar Deletar Atualizar Categorias (CSV)

Pesquisar

ID	Nome	Descrição do Produto	Valor	Categoria
4	teste4	teste 4 concluido	4	Brinquedos
6	teste 6	teste 6 concluido	6	Informática
7	teste 7	teste 7 concluido	7	Móveis
8	Computador Dell	Computador com 8GB...	677	Informática

Source: Author of this document.

3.3 Update Product

To update the product information (Figure 12), the user follows the methodology used to delete the product, but instead of clicking the delete button, he clicks the save button.

Figure 12 – Update Product

Cadastro de Produto

Nome: teste 7

Descrição Produto: Atualizando Produto teste

Valor: 7

Categoria: Móveis

Buttons: Salvar, Deletar, Atualizar Categorias (CSV)

Pesquisar:

ID	Nome	Descrição do Produto	Valor	Categoria
4	teste4	teste 4 concluido	4	Brinquedos
6	teste 6	teste 6 concluido	6	Informática
7	teste 7	Atualizando Produto teste	7	Móveis
8	Computador Dell	Computador com 8GB d...	677	Informática

Source: Author of this document.

3.4 Product Search

To search for a product (Figure 13) just write the name of the product in the search field and the tool will dynamically compare the string or substring with the database, thus returning all lines containing that name.

Figure 13 - Product Search

Pesquisar: Comp

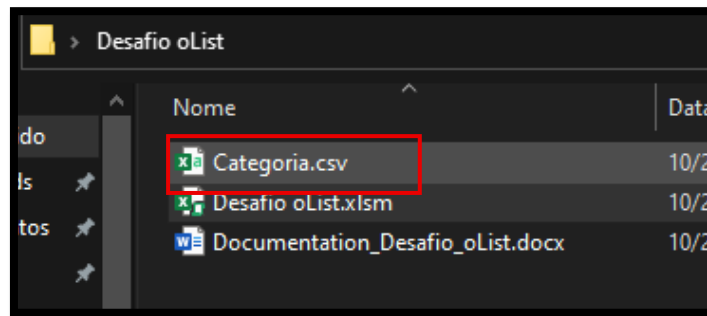
ID	Nome	Descrição do Produto	Valor	Categoria
8	Computador Dell	Computador com 8GB d...	677	Informática

Source: Author of this document.

3.5 Category Update Button

The updating of the product classification categories is done using information that is in an external file (Figure 14). For a correct update, the standard name and the data structure presented in the CSV file must be kept the same, changing only the internal information that in this case would be the addition or reduction of categories.

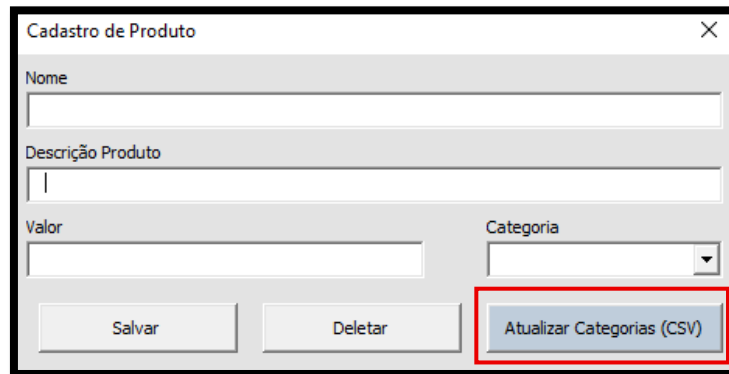
Figure 14 - CSV extension file for updating categories.



Source: Author of this document.

To perform the function responsible for updating the categories in the database, the user must click the update categories button (Figure 15).

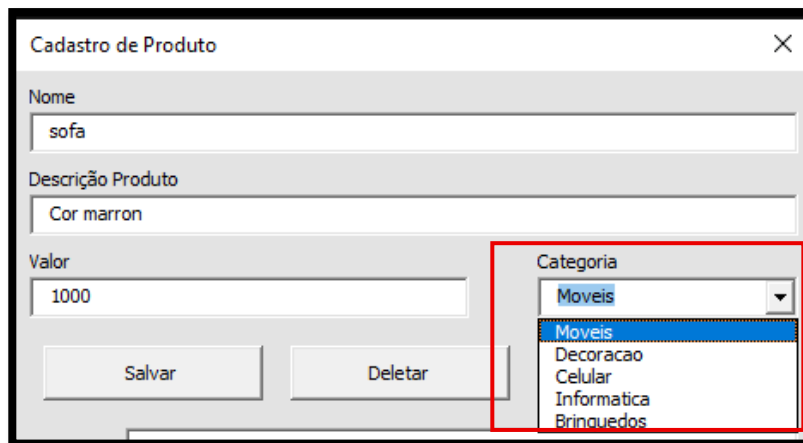
Figure 15 -Update Category



Source: Author of this document.

If the implemented function works correctly, the types of categories that were in the CSV file should appear in the list box (Figure 16).

Figure 16 - Update List box



The image shows a software window titled 'Cadastro de Produto' with a close button in the top right corner. The form contains four input fields: 'Nome' with the value 'sofa', 'Descrição Produto' with the value 'Cor marron', and 'Valor' with the value '1000'. To the right of the 'Valor' field is a dropdown menu labeled 'Categoria'. The dropdown is open, showing a list of categories: 'Moveis' (highlighted in blue), 'Decoracao', 'Celular', 'Informatica', and 'Brinquedos'. The entire dropdown menu is enclosed in a red rectangular box. At the bottom of the form are two buttons: 'Salvar' and 'Deletar'.

Source: Author of this document.

4 IMPORTANT INFORMATION

- Don't change the structure of the database.
- Don't delete files and folders from the directory where the application is located.

5 FUTURE SELF-SERVICE MAINTENANCE

If it is necessary to include more information or modify the structure of the database, the code must be revised and modified.