

8Lab Solutions - Project "Soldino"

User manual

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Description

User manual made by 8Labs Solutions for the making of the project Soldino.

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Changelog

Version	Date	Name	Role	Description
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1 Introduction

This document s the user manual of Soldino, a project by &Lab Solutions based on the Erhereum infrastructure.

1.1 What is Soldino

Soldino is a platform that allows users to buy goods and services, allows business to manage the VATs related to those products and allows the Government to mint and distribute Cubits and reimburse businesses of their VAT credit. More precisely:

- citizens can:
 - buy goods and services;
- business can:
 - sell goods and services;
 - buy goods and services;
 - manage VAT;
- Government can:
 - mint Cubits;
 - distribute Cubits;
 - activate disabled users;
 - deactivate active users;
 - reimburse businesses of their VAT credit;

1.2 Requiremets

To be able to use Soldino you need to have the desktop version one of the following browsers:

- Google Chrome version 71 or newer;
- Mozilla Firefox version 64 or newer.

You also have to install the MetaMask plug-in in your browser. More information will follow



2 MetaMask

2.1 What is MetaMask

MetaMask is a browser extensions that manages your Ethereum wallet and and allows you to send and receive Ethers (Cubits or CCs in *Soldino*). This plug-in is necessary to perform all the basic actions of an e-commerce such as log in and all transactions.

2.2 Installation

After entering *Soldino* check if you have MetaMask, a bridge between your browser and the Ethereum network, installed. If you don't, watch the guide and click the link under the video to then follow the instructions to download it. After the installation process is complete you will see MetaMask's icon on the top right of your browser. A new window will then open where you will have to configure your account. The download page can also be reached at https://metamask.io/.



Figure 2.2.1: Introduction to MetaMask

2.3 Configuration

To be able to use the site you also need a MetaMask account. Click on MetaMask's icon on the top right of your browser, and set up your personal Ethereum wallet.

You can either create a new one or import an existing one from the 12 words seed phrase.



Figure 2.3.1: MetaMask setup



After setting up your account you will be able to join and use Soldino.

Note that MetaMask has to be installed in your browser as long a you want to use the platform, removing it from your browser will render you unable to use Soldino.

2.4 Transactions

Every time you make a transaction MetaMask will open a pop up window that shows you its cost and the gas needed to make a transaction. From this you will be able to accept it or decline it.

Note that all prices shown are in Cubits (CC), Soldino's own special token. Also note that 1 Cubit = 1 Euro



3 Citizens

3.1 Registration

If you want to create a personal account for *Soldino* visit the homepage and make sure that the slider in set on "Citizen".



Figure 3.1.1: Select "Citizen" from the slider

Then, insert your data in the form. After you have completed all the fields with your informations press the "Sign up" button. If an entry is not valid (i.e. the email address does not contain a valid domain) the system will let you know and you have to correct that field to continue. If all the informations are correct a pop up window will open asking you to allow *Soldino* to access your information.

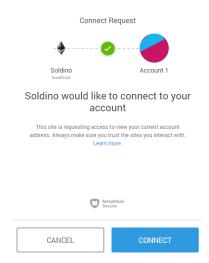


Figure 3.1.2: Connecting MetaMask to Soldino

Press "Connect" and you will be redirected to a page congratulating you for your registration on the platform.



Figure 3.1.3: Registration completed message



3.1.1 Citizen already registered

If your address is already registered in our platform you will see an error page telling you that you cannot create a new account.

3.2 Login

If you already have a personal account press the "login" button on the top right of the homepage. Then you will be able to buy goods and services or check your orders. To be able to login you have to be logged in your MetaMask account.

3.3 Buying

3.3.1 Searching

You can search for products by name using the search bar that can be found right at the top of the page. After you start typing you will see all results that match tour search. If no matching products are found you will a message showing you that.

3.3.2 Cart

You can add products in your cart, after selecting the quantity you need, by pressing the "Add to cart" button under it.

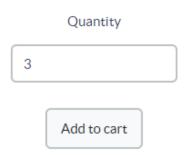


Figure 3.3.1: Adding a product to your cart

You can access your cart by pressing the shopping cart icon on the bar at the top of the page.



Figure 3.3.2: Icon to access your cart

Here you will find every item you have previously selected in the respective quantity and above them you will see the total for your order. If you need to modify the quantity press the "+" or "-" buttons.



When you want to proceed with the order press the "Checkout" button, you will be redirected to the checkout page.

- 3.3.3 Checkout
- 3.3.4 Past orders



4 Businesses

4.1 Registration

If you want to create a business account for *Soldino* visit the homepage and make sure that the slider in set on "Citizen".



Figure 4.1.1: Select "Business" from the slider

Then, insert your business's data in the form. After you have completed all the fields with your informations press the "Sign up" button. If an entry is not valid (i.e. the email address does not contain a valid domain) the system will let you know and you have to correct that field to continue. If all the informations are correct a pop up window will open asking you to allow Soldino to access your information.

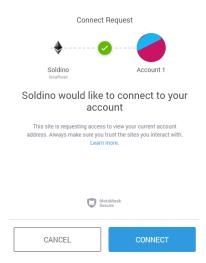


Figure 4.1.2: Connecting MetaMask to Soldino

Press "Connect" and you will be redirected to a page congratulating you for your registration on the platform. for your registration on the platform.



Figure 4.1.3: Registration completed message



4.1.1 Business is already registered

If your address is already registered in the platform you will see an error page telling you that you cannot create a new account.

4.2 Login

If you already have a business account press the "login" button on the top right of the homepage. Then you will be able to buy goods and services, check your orders and manage your VAT. To be able to login you have to be logged in your MetaMask account.

4.3 Managing products

4.3.1 Selling a new product

If you want to sell a new product you have to

4.3.2 Modifying a product

If you want to modify the information of a product you are selling you have to

4.3.3 Removing a product

If you want to remove a product from the platform you have to

4.4 Buying

4.4.1 Searching

You can search for products by name using the search bar that can be found right at the top of the page. After pressing enter you will be redirected to a page containing all results. If no matching products are found you will a message showing you that.

4.4.2 Cart

You can add products in your cart, after selecting the quantity you need, by pressing the "Add to cart" button under it.

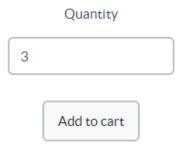


Figure 4.4.1: Adding a product to your cart

You can access your cart by pressing the shopping cart icon on the bar at the top of the page.





Figure 4.4.2: Icon to access your cart

Here you will find every item you have previously selected in the respective quantity and above them you will see the total for your order. If you need to modify the quantity press the "+" or "-" buttons.

When you want to proceed with the order press the "Checkout" button, you will be redirected to the checkout page.

4.4.3 Checkout

4.4.4 Past orders

4.5 VAT management

If you are a business Soldino will manage VATs for the products you buy and sell on the platform automatically.

- 4.5.1 Paying VAT
- 4.5.2 Deferring VAT
- 4.5.3 Checking past trimesters' VAT



5 Government

5.1 Registration

The government cannot register a new account like other users and only one account is allowed.

5.2 Login

To log in as Government press the "login" button on the top right of the homepage. Then you will be able to mint and distribute Cubits, manage existing accounts and reimburse business of their VAT credit. To be able to login you have to be logged in your MetaMask account.

5.3 Cubit

5.3.1 Minting

The Government can mint Cubits, a special token for *Soldino* that has the value of 1 Euro. This can be done by visiting

5.3.2 Distributing

Government can distribute Cubits previously minted amongst the users of the platform. This can be done by visiting

5.4 Managing users

The Government can activate disabled accounts or deactivate active accounts. This can be done by visiting the page containing all users.

5.4.1 Activating users

After you have found the account you want to enable press the button "Enable". After being enabled an account will again be able make purchases on *Soldino*

5.4.2 Deactivating users

After you have found the account you want to disable press the button "Disable". After pressing it a window will open where you can write a message explaining why the account was disabled that will be shown when that user will try an log in. Disabling an account means that it will not be able to make purchases on *Soldino* until it is enabled.

5.5 Reimbursing business

The government can reimburse business of their VAT credit. This can be done by visiting



6 Issues

We, members of *8Lab solutions*, did our best to build *Soldino* bug free and did extensive tests to squish all of them, but we cannot be sure that they are all gone.

If you encounter a bug we would appreciate if you to report it to us at our email address (8labsolution@gmail.com) or in the dedicated page at the project's repository When reporting an issue please include:

- what type of user encountered it;
- a detailed sequence of steps that must be done to reproduce the error;
- \bullet if the error included Metamask and what type of error it shows;
- your browser's console log output.



A Glossary