

# Mooltipass Mini User Manual

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# Mooltipass Mini Device

## I. Getting Started



Connect your Mooltipass Mini to your computer using the micro USB cable you received. Once connected, a tutorial will be shown on the mini screen.

After you complete the tutorial, you will see the Mini's splash screen (left).



To get started, you need to set up a new Mooltipass user.

Simply insert one of the cards you received into the Mooltipass Mini.



The Mooltipass Mini will prompt you to create a new user.

Click the wheel to accept the request. Scrolling to the cross icon and clicking, or holding the wheel button (a "long click") will deny the request.



Next, you will setup your Personal Identification Number (PIN). Each of the four PIN characters can be one of the digits 0-9 or one of the letters A-F.

Scroll the wheel to select the desired character and click to move to the next position. A long click will go back one position to let you change the previous character.



Re-enter the same PIN you selected to confirm it.



When you finish selecting a PIN, the main menu will be displayed.

Congratulations, your Mooltipass Mini and the smartcard are set up and ready for use!

## II. Password Storage and Recall



While the Mooltipass works out of the box with any device, our app and extension simplify it even further on web browsers.

For installation instructions, visit <http://www.themooltipass.com/setup>

After installing, simply visit any website login page and enter your login and password. The Mooltipass Mini will then ask if you want to store the website, login and password.

Credentials can also be added directly using the “Credentials” tab in the Moolticute App (see section [IV.](#) of the Moolticute app User’s Guide)



Press the wheel to approve storing your user ID.

To protect your information, the Mooltipass Mini always asks you for permission to use or change the information you have stored in it.



This means you will need to manually approve password changes on the device.

Now that the website and credentials have been stored, every time you need to login to this website, the Mooltipass Mini will ask your permission to enter your credentials for you.

### III. Manual Login



Manual Login is generally used to enter credentials when you need to sign in without Google Chrome, Firefox, Opera or Safari browsers.

In the main menu, scroll to 'login' and click on the wheel.



Use the wheel interface to scroll to the service you want to log in to and click the wheel to select it.

You can scroll by letter instead of service for quicker access in long lists – just push and hold the wheel button while scrolling to skip from letter to letter.



If more than one credential set is stored for a given website, you will be prompted to select the desired login using the wheel interface.





The Mooltipass Mini will then prompt you for permission to send your username to the computer.

If the typed username isn't correct, make sure your keyboard layout is correctly selected in the 'Device Settings' tab of the Moolticute app (See section [III.a.](#) of the Moolticute User's Guide)



The Mooltipass will then prompt for permission to enter your password.

#### IV. Manual Login – Favorites Menu



The Mini provides a 'Favorites' menu for quick access to your most commonly used credentials. To select which credentials are 'favorites' use the 'Credentials' tab of the Moolticute app (see section [IV.](#) of the Moolticute app User's Guide)

In the main menu, select the 'favorites' item to show your favorite credentials.



Select the desired credential set using the wheel interface.



As before, approve or deny the username/password entry requests.



## V. Settings Menu



The Mini has an embedded settings menu that provides some important features.  
From the main menu, select the '*settings*' item.



You will be presented with different options, which are outlined below.

## VI. Changing the Card PIN



In the settings menu, select the 'change pin' item.



Enter your old PIN.



Enter your new PIN.



Confirm your new PIN.

## VII. Cloning your Card



If your card is lost or destroyed, you'll need a 'clone' of your card to access the credentials **stored inside the device**. We recommend that you make a clone of your card and keep it in a safe place, just in case.

In the settings menu, select the 'clone card' item.



Enter your PIN.



Enter the desired PIN for the new card. It can be the same as your main card, but this is not required.



Confirm the PIN for the new card.



Remove your old card.



Insert a new (empty) smart card. It will be initialized with the contents (encryption key) of your old card, and the new PIN you just selected.

## VIII. Deleting Your User Data from the Mooltipass



In the settings menu, select the 'erase' item.



The Mooltipass will prompt you for confirmation that you really do want to delete all user data.

*Please note that this operation deletes all the credentials stored for this user in this Mooltipass Mini. It doesn't delete credentials stored for this user in other Minis or credentials stored in this Mini for other cards.*



Enter your PIN.



If you are really sure you want to delete your user data from the Mooltipass Mini, confirm again.



If you are using your current smart card on other Mooltipass devices, it is important that you **deny** the request to erase the card – if you do erase the card, it can no longer be used to access any saved credentials on those other devices!

Otherwise, accept it. This blanks the card, as though you just took it out of the box.



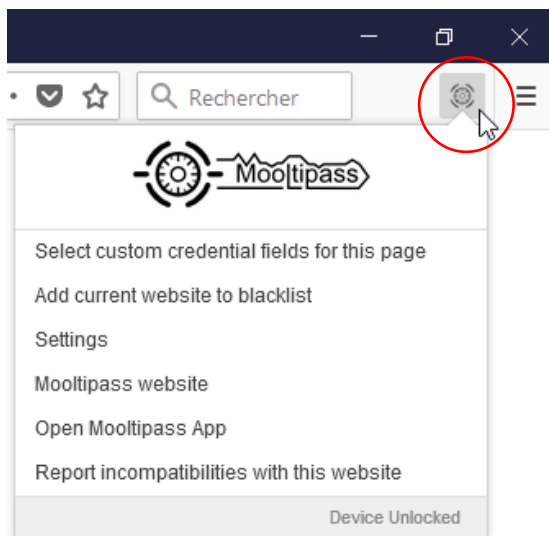
If you erase your original card and have clones of it that you no longer need, you should erase them, too. Approve this request and repeat the previous process to erase the cloned cards as well.



# Mooltipass Browser Extension

**n.b.** : for installation instructions please visit <http://www.themooltipass.com/setup> .

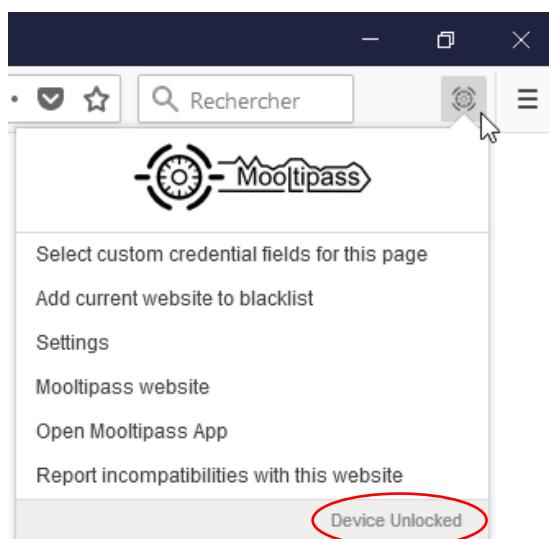
## I. Extension Menu



In Chrome, Firefox, Opera or Safari, the Mooltipass icon may be found next to your address bar.

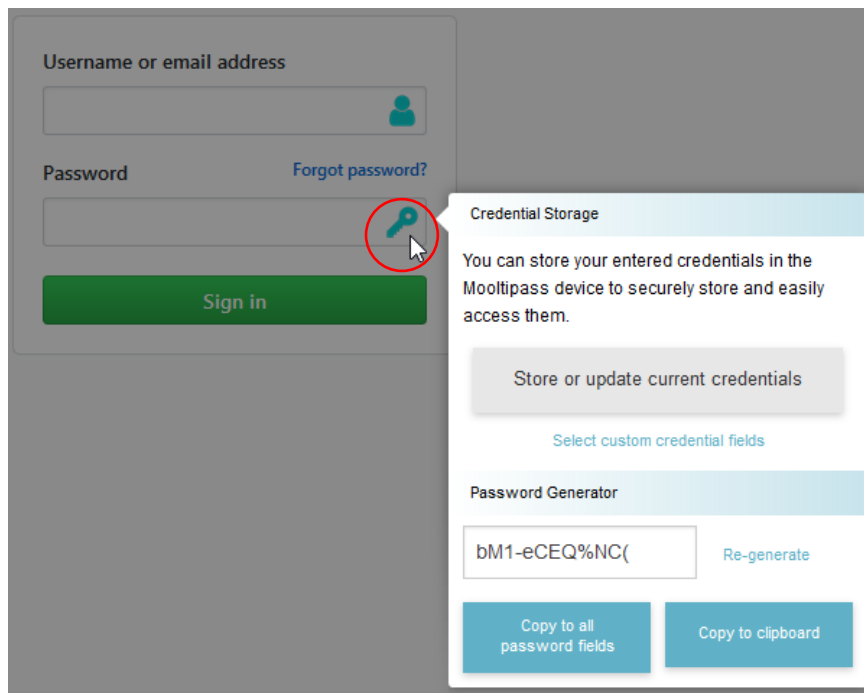
Clicking on it will display a menu.

## II. Device Status



The device status is displayed on the extension menu bottom right corner.

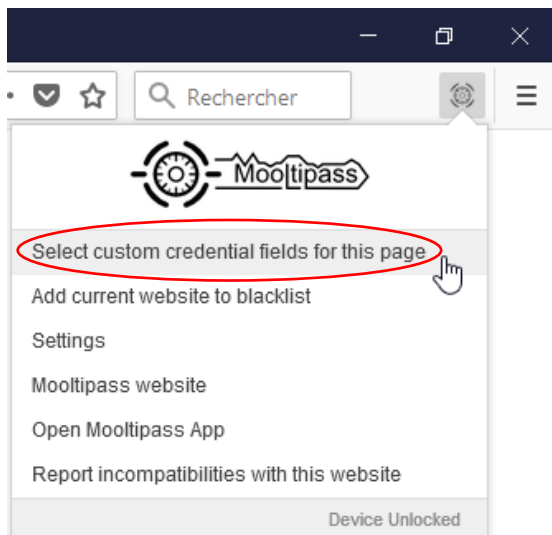
### III. Password Generator and Credential Storage



By clicking on the key icon inside a password field, you can bring up the Mooltipass password generator.

In the rare cases where the extension doesn't pick up a credential submit event, you may also use this menu to manually trigger a credential storage procedure.

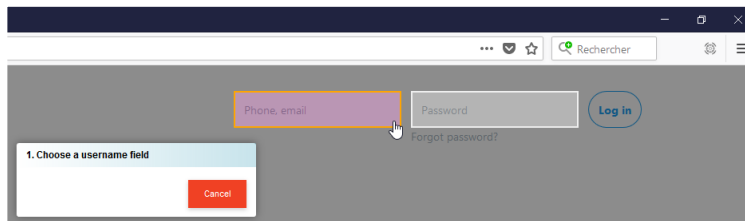
### IV. Selecting Custom Credential Fields



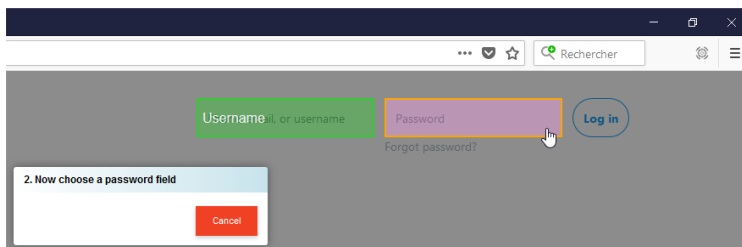
The Mooltipass extension searches for credential fields in the web pages you visit. When it finds them, it displays a key icon in the password field, as shown above.

In the rare case the credential fields aren't picked up, you may tell the app about them by clicking this item in the extension menu.

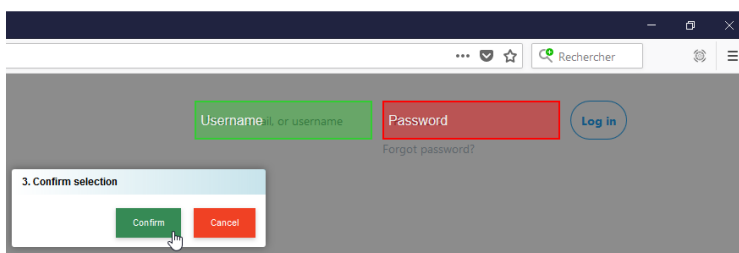
Follow the on-screen instructions to select the username field



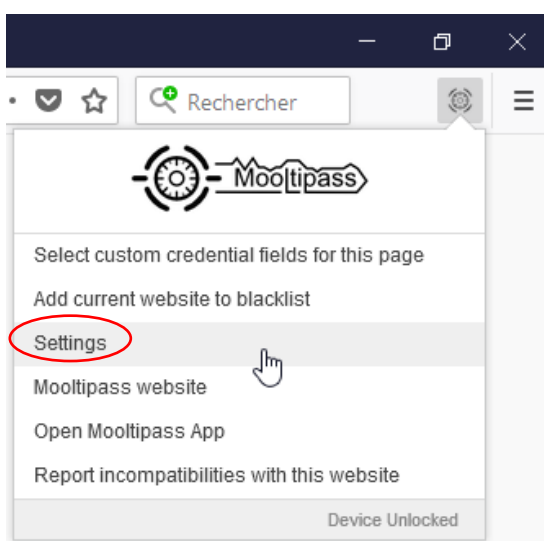
then the password field,



and confirm.



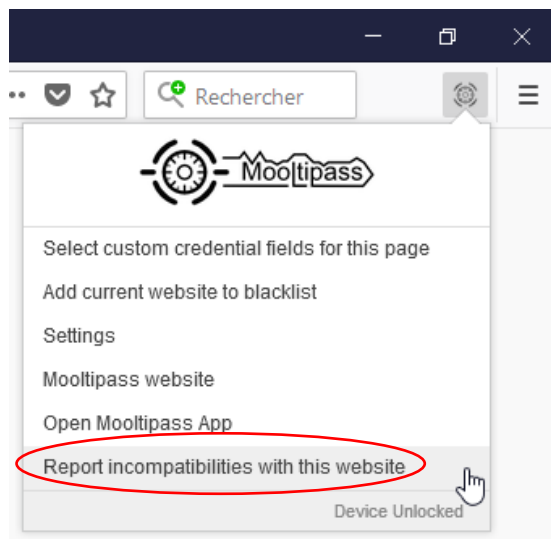
## V. Extension Settings



You may bring up the Mooltipass extension settings page by clicking on the dedicated item in the extension menu.

Among other things, the settings page will allow you to manage your blacklisted websites and the ones for which you have stored custom credential fields.

## VI. Reporting Incompatibilities



The Mooltipass team actively works to ensure the extension works with all the websites you visit. If you find a website that it does not work with, we'd like to know about it.

To report an incompatibility, please click on the dedicated link in our extension menu.

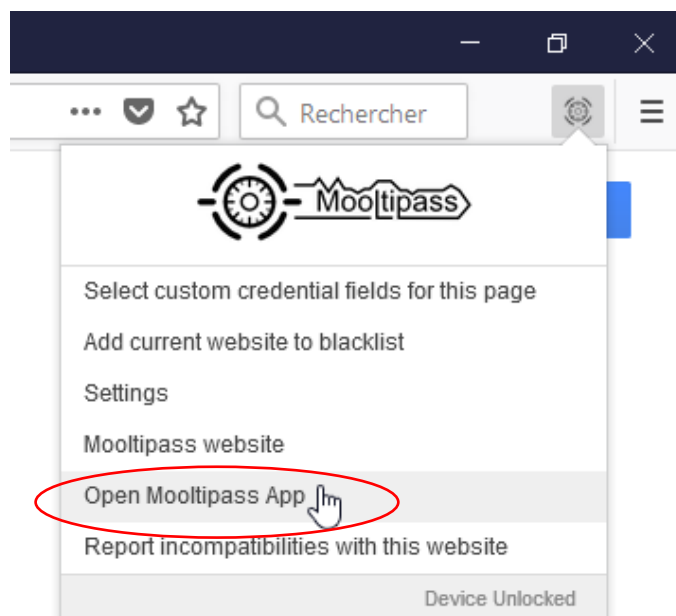
# Moolticut Application

## I. General Information

The Moolticut is the official app of the Mooltipass. It works as an interface between the device and its browser extension. This allows a simpler, more intuitive use of your Mooltipass and gives you access to even more functionalities.

For installation instructions on the Moolticut and the Mooltipass extension, please visit <http://www.themooltipass.com/setup>.

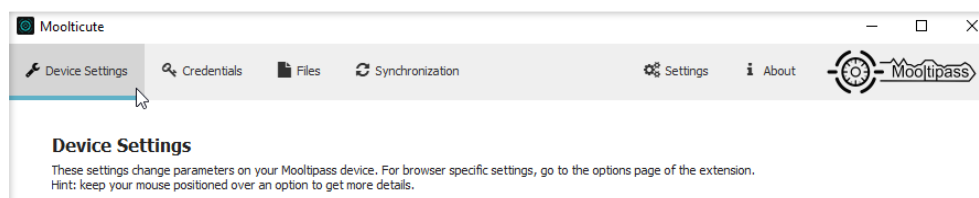
## II. Launching the Moolticut app



You can launch the Moolticut app from the Mooltipass Extension menu by clicking on the corresponding item.

The app features are divided into five main tabs. Each of them is described in a section below.

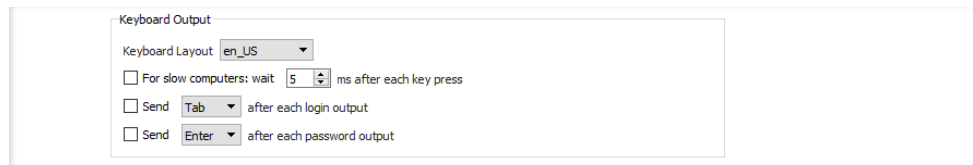
## III. Device Settings



The 'Device Settings' tab changes parameters on your Mooltipass device.

Keeping your mouse positioned over an option will give you a short description of what the corresponding feature does.

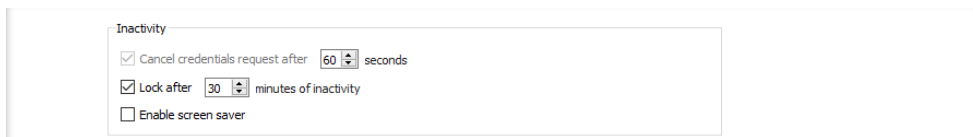
## a) [Keyboard Output](#)



- For the Mooltipass to operate properly, it is important that you go to the Device Settings tab and select the **keyboard layout** you are using.
- If characters are missing when using manual credential recall, your computer may be too slow to process the Mooltipass simulated key presses. Enable the second feature of this subsection to allow longer **intervals between simulated key presses**. It will solve the problem.
- The last two features of this subsection also apply to manual credential recalls.

They enable your Mooltipass to automatically send a **Tab or Enter simulated key press** after each login and password outputs. Not having to do it yourself might then speed up the login process.

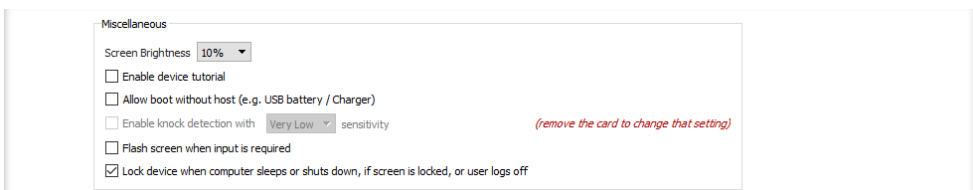
## b) [Inactivity](#)



This subsection allows you to

- parameter the number of seconds after which the **credential requests** disappear;
- automatically **lock your Mooltipass** device when you've been inactive for a chosen amount of time;
- enable the Mooltipass **screen saver**.

## c) [Miscellaneous](#)



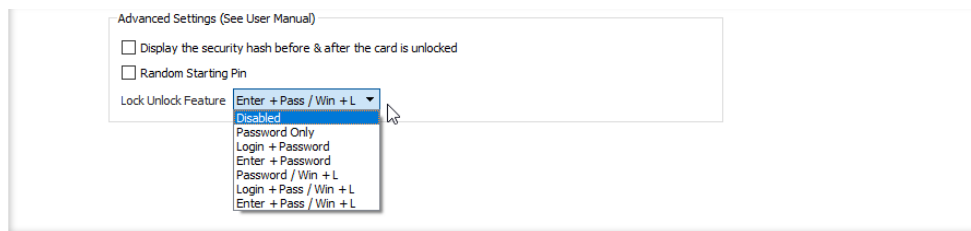
In this subsection you can:

- adjust the **screen brightness** of your Mooltipass;
- make the Mooltipass display its **tutorial** next time you plug it in;
- allow the Mooltipass to **display credentials** on its screen, when it is disconnected (e.g. on USB battery or charger);



- enable **knock detection** and adjust its sensitivity. You need to remove your smartcard from the Mooltipass to change these two settings. When this feature is enabled, knocking twice approves a credentials sending request;
- make the screen of the Mooltipass **flash** when an action is required;
- lock your Mooltipass automatically when your computer (or other device) goes into sleep mode or when you exit your session. This feature is enabled by default to limit the risks of multiple-user environments.

#### d) Advanced Settings



The last three features of the '*Device Settings*' tab are advanced settings.

- When enabled, the **Hash Display Feature** will display one hash string before and after unlocking your smartcard. By checking that these hashes do not change over the life of your device, you can make sure your Mooltipass is not tampered with. You may read more on this topic in [this document](#).
- When you enter your PIN to unlock your smartcard, you scroll the wheel of the Mooltipass from the digits 0-0-0-0. You may however choose to **randomize this starting pin** for security reasons.
- You can make your Mooltipass:
  - unlock your computer after unlocking your device; and
  - lock your computer when your smartcard is removed from the Mooltipass.

The different options inside the **Lock/Unlock Feature** list will allow you to do so.

Simply specify if a login and/or password should be sent after unlocking your smartcard. The Mooltipass Mini will then send a credential stored inside an '*\_unlock\_*' service in your database. For help setting an '*\_unlock\_*' service, please refer to section [III.a](#)).

Password Only	Sends the password stored inside your ' <i>_unlock_</i> ' service, after unlocking your smartcard.
Login + Password	Sends the login and password stored inside your ' <i>_unlock_</i> ' service, after unlocking your smartcard.
Enter + Password	Simulates an <i>Enter</i> key press then sends the password stored inside the ' <i>_unlock_</i> ' service, after unlocking your smartcard.

Please note that the Mooltipass device always prompts you for confirmation before sending credentials. In this case also, the simulated key presses are sent when you accept the credentials sending request.

You can also simulate a *Win + L* key press, locking your computer, every time the smartcard is removed from the Mooltipass.

Password / Win + L	Sends the password stored inside the ‘_unlock_’ service, after unlocking your smartcard <b>and</b> Simulates a <i>Win + L</i> key press when removing your smartcard from the Mooltipass.
Login + Pass / Win + L	Sends the login and password stored inside the ‘_unlock_’ service, after unlocking your smartcard <b>and</b> Simulates a <i>Win + L</i> key press when removing your smartcard from the Mooltipass.
Enter + Pass / Win + L	Simulates an <i>Enter</i> key press then sends the password stored inside the ‘_unlock_’ service, after unlocking your smartcard <b>and</b> Simulate a <i>Win + L</i> key press when removing your smartcard from the Mooltipass.

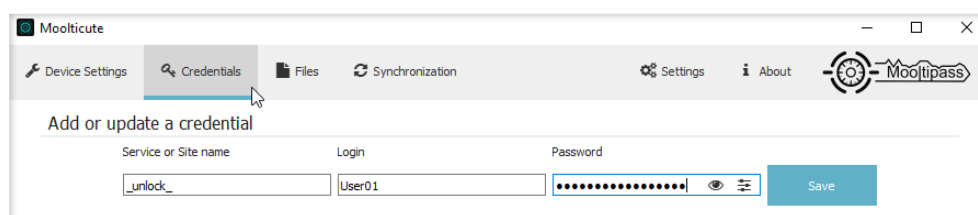
Finally, choose the *Disabled* option if you want to deactivate the Lock/Unlock Feature.

## IV. Credentials

This tab allows you to add or manage credentials stored inside your Mooltipass.

### a) Adding or updating a credential

The first subsection allows you to add a credential to your database.

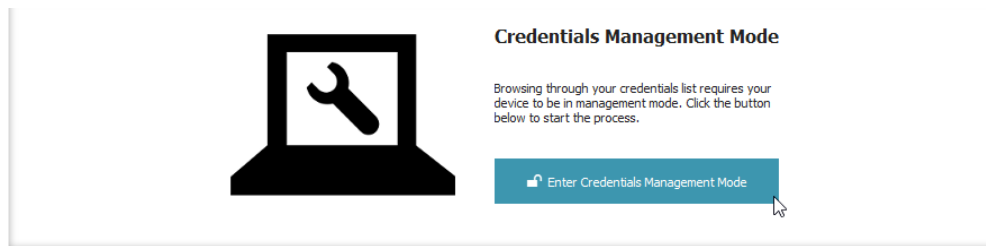


You can, for instance, add the ‘\_unlock\_’ service of the Lock/Unlock feature ([II.d](#)).

Fill in the dedicated fields with the website URL or service name, in this instance ‘\_unlock\_’, your login and your password. Click on the ‘Save’ button then approve the request on your Mooltipass device.

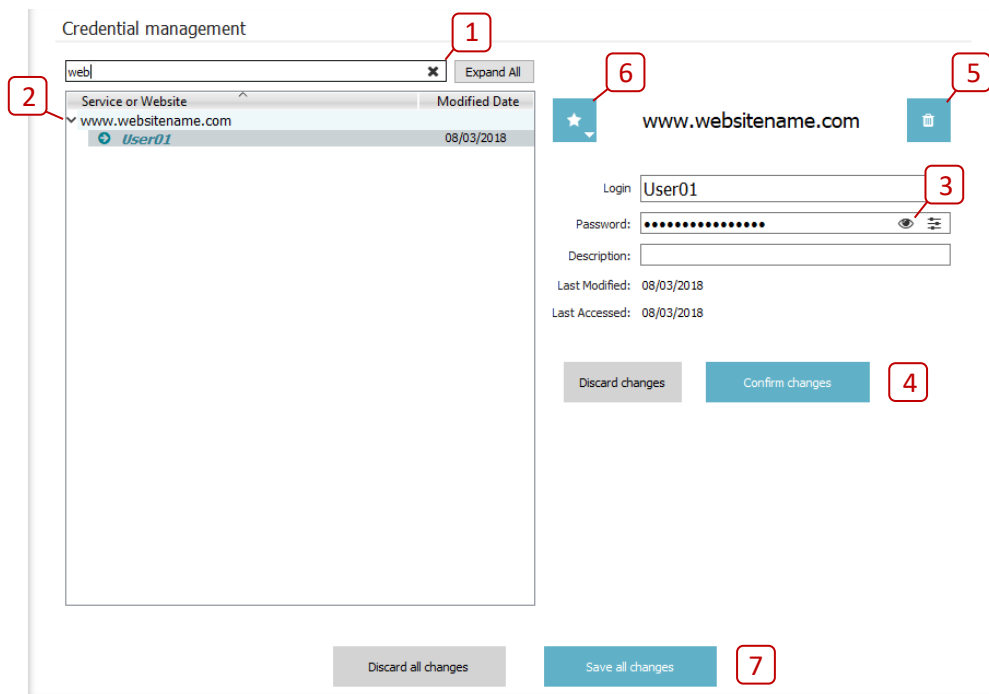
If the service/site and login are already stored in the Mooltipass, it will simply edit the credential with the password you are entering.

## b) Credential management



Click on the 'Enter Credentials Management Mode' button to manage the credentials stored inside your Mooltipass. You will need to confirm the request on the Mooltipass device and reenter your PIN.

The 'Filter credentials...' search bar (1) can help you navigate more easily through your credentials.



Single clicking on a credential line (2) shows its details. To display the password, click on the eye icon (3) and use the wheel on the Mooltipass Mini to confirm the request. You may then **edit** your credentials. To confirm: click on the 'Confirm changes' button. To cancel the credential modification: simply hold the 'Discard changes' button (4).

You may **delete** a credential by clicking on the bin icon (5).

You may set a credential as **favorite** by clicking on the star icon (6) and choosing an option in the list.

The second icon in the password bar gives you access to a password generator. This feature can help you set random, more secure passwords.

When you are done editing your credentials, click on the *'Save all changes'* button and approve the modification requests on the Mooltipass. Otherwise, hold the *'Discard all changes'* button to cancel (7).

## V. Files

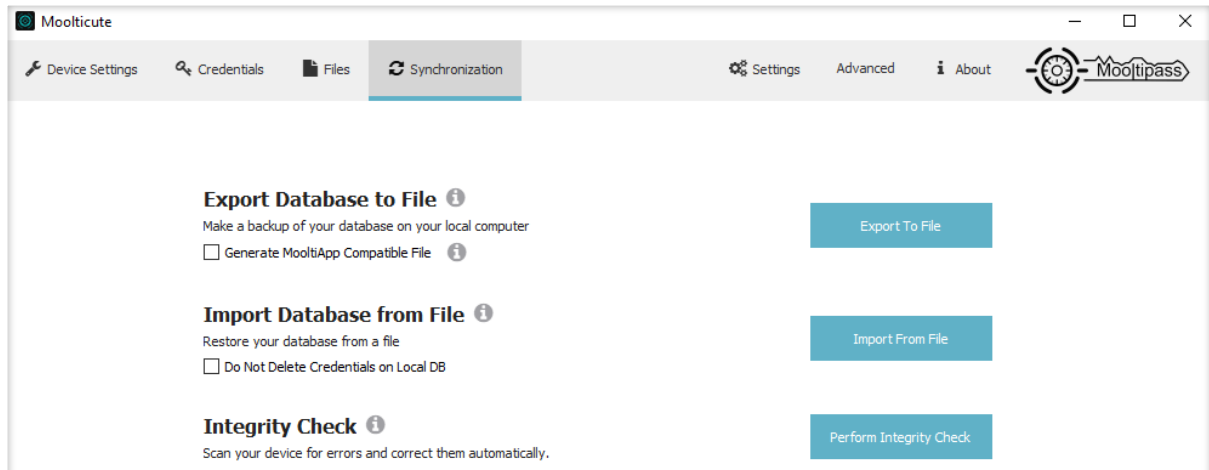
The Mooltipass device can operate as a flash drive. The *'Files'* tab allows you to add, store and access files on your Mooltipass.

The first subsection of the *'Files'* tab allows you to **add a file**. Click on the *'Save'* button and confirm the request on the Mooltipass device. If the file's name matches a file already stored in the Mooltipass, the device will ask you if you want to update it. If you confirm the request, the file already stored will be deleted and replaced by the one you are adding.

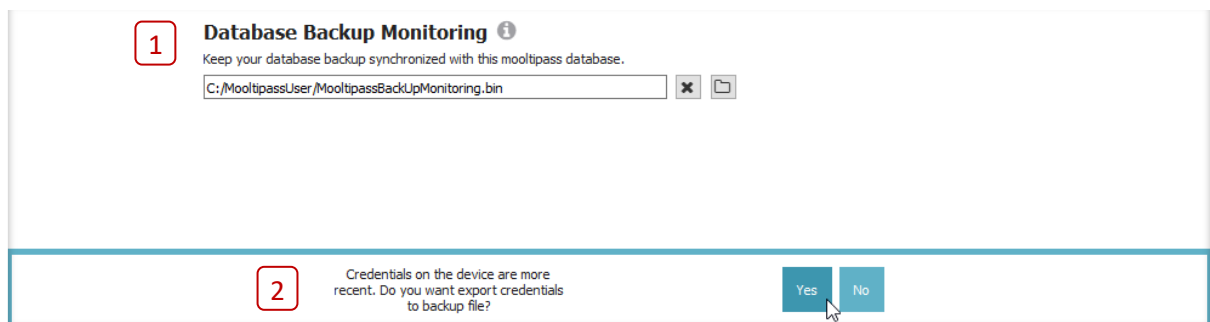
Click on the *'Enter Files Management Mode'* button to manage the files stored inside your Mooltipass. You will need to confirm the request on the Mooltipass device and reenter your PIN. You can then **access or delete files** stored on your device.

When you are done, click on the 'Save & Quit' button and approve the modification requests on the Mooltipass – or hold the 'Discard deletions' button, if you need to cancel.

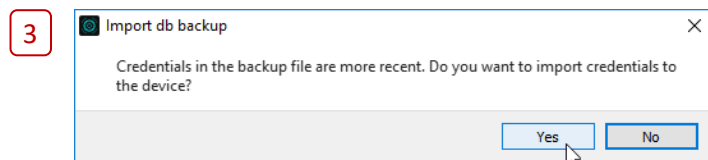
## VI. Synchronization



- The different buttons in the synchronization tab will allow you to **backup and restore the credentials** you have stored inside the memory of your Mooltipass.



- You can also select a **backup monitoring file** to make sure your Mooltipass database is always in sync with it. Simply enter the path to the database you have exported and want to monitor (1). You will then be prompted for export or import operations if any changes to your Mooltipass database or monitored file are detected. Requests to export the Mooltipass database to your monitored file (2) appear at the bottom of 'Synchronization' tab; while import requests (3) pop up when you unlock your Mooltipass device. You may need to approve the requests both on your computer and on the Mooltipass Mini.



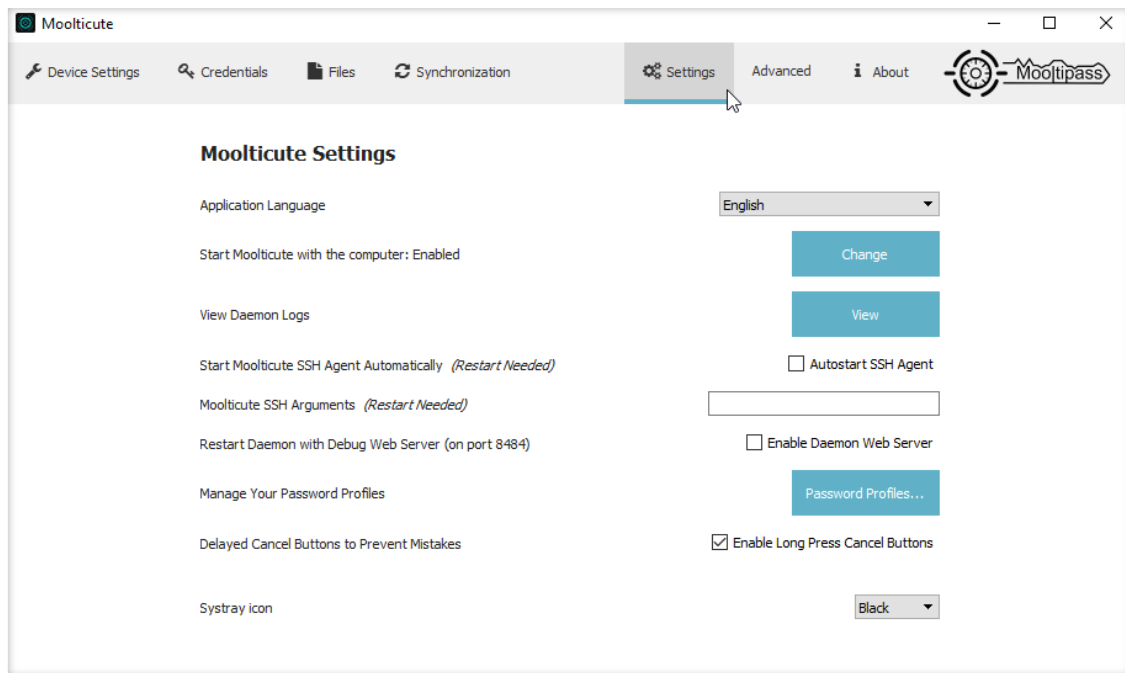
When you use more than one Mooltipass device, these features allow you to keep your Mooltipass units synchronized. It can also be especially helpful to monitor a file on a cloud storage (using for instance the Dropbox™ service) that you can access on any computer. Please refer to the [dedicated section](#) the Mooltipass User Manual for more information on this topic.

- Finally, do not click on the ‘**Perform integrity check**’ button unless instructed to do so by the Mooltipass support team.



## VII. App Settings and Advanced features

### a) Settings

The top-right ‘*Settings*’ tab changes parameters on the Moolticute app.

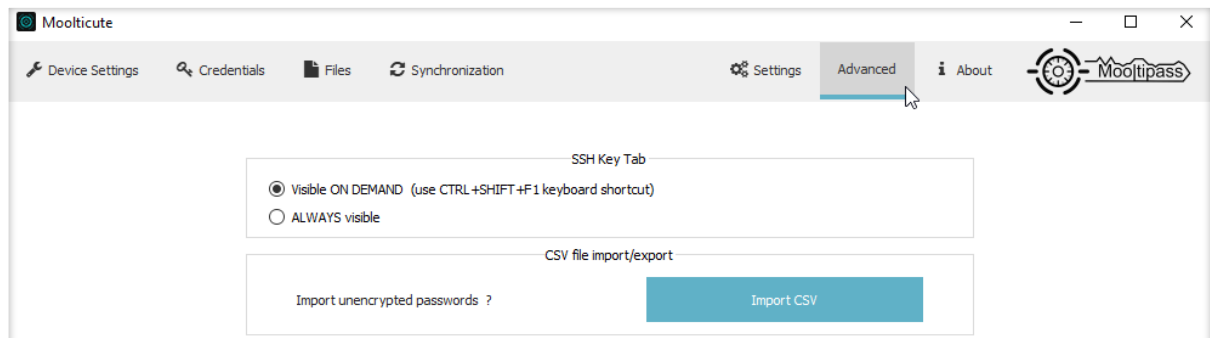


It allows you to:

- change the **application language**;
- enable **automatic start** of the Moolticute app at boot;
- view **Daemon logs** - if the Mooltipass team ask you to;
- define the **password profiles** that you can choose from in the password generator. A password profile determines the types of characters (i.e. digits, symbols, lowercases...) that password includes;
- enable **long press cancel buttons** to prevent you from cancelling by mistake changes that you have made;
- change the color of the **Moolticute systray icon** to white  or black  .



## b) [The Advanced tab](#)



*What advanced tab?* you may ask. Simply press CTRL+SHIFT+F2 to make it appear.

You can use this tab to import multiple credentials stored inside a CSV file. Please make sure the credentials are correctly formatted and in ASCII format. The Mooltipass Team however recommends you to **avoid using this feature** when migrating to the Mooltipass, as this is a good occasion to manually change your previous passwords one by one, triggering credential save events.

This tab as well as the SSH key tab are still in development. Please bear with us for updates on the subject.

## c) [About](#)

Finally, the 'About' tab provides you with general information about your device and app. It allows you to check if you are running the **latest version** of the Moolticute.

In this tab, you can also fetch the UID of your device. The **UID Check functionality** allows you to make sure your device wasn't tampered with during shipping. By sending us an email with your serial number, you may request a password allowing you to check a unique identifier stored inside your Mooltipass Mini.

# Multiple Users – Multiple Devices

## I. [One device for multiple users](#)

Multiple users can share one Mooltipass device.

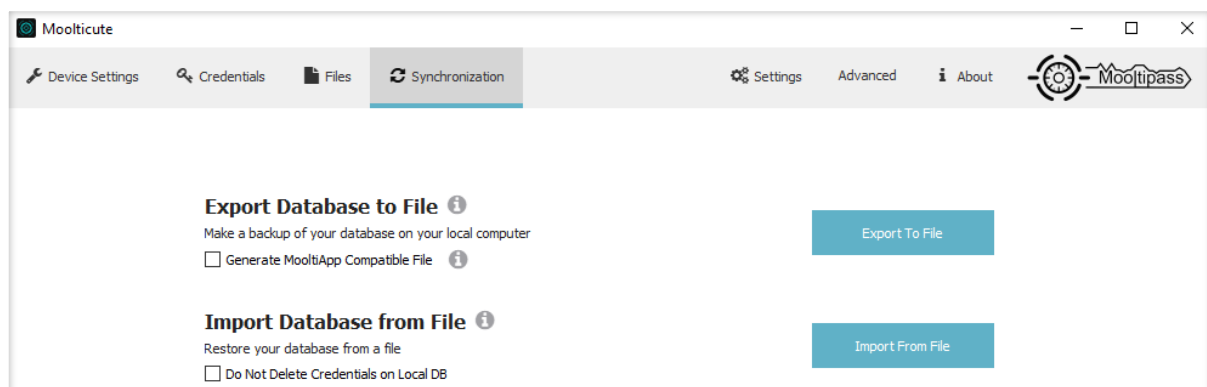
Each user can store and access his/her own encrypted credentials on the device, thanks to his/her individual smartcard.

This also means that you can create as many users as there are smartcards – following the exact same procedure as in section [I.](#) of the Mooltipass User's Guide.

However, the smartcard works only as a key. If you want to access your credentials at different places on different computers or devices, you can either:

- bring both your smartcard and your Mooltipass along with you
- or
- use your smartcard (or one of its clone) on multiple synchronized Mooltipass devices.

## II. [Multiple devices for one user](#)



To store your credentials on one or more additional Mooltipass devices, begin by making a backup of the data stored on your original device using the 'Synchronization' tab inside the Moolticute App (1). Simply select one of the two options displayed to you and approve the requests on your Mooltipass. To import this backup on other devices, insert your Mooltipass card in them and use the Moolticute App again (2).

When you use more than one Mooltipass device, you can use the different options in the 'Synchronization' tab to keep your Mooltipass units synchronized. See section [VII.](#) of the Moolticute User's Guide for more information on backup monitoring files.

### III. [Best Security Practices](#)

To limit the risks of a multiple-users environment, your Mooltipass will automatically be locked when your computer (or other device) goes into sleep mode or when you exit your session (see Subsection [III.c.](#) of the Mooltipass User's Guide). Likewise, you can choose to automatically lock your Mooltipass device when you've been inactive for a chosen amount of time (see Subsection [III.b.](#)).

Some security practices are also highly recommended to avoid any loss of data:

- Make at least one clone of your Mooltipass card
- Make multiple backups of your credentials database and store them in multiple places
- Enter your PIN discreetly so that no one can see it by looking over your shoulder
- Change your card's PIN and the passwords you use for important websites on a regular basis

## Native Integration without Browsers

The Mooltipass team is working to support other browsers and applications besides Google Chrome, Firefox, Opera or Safari. As this project is mainly made by contributors you are welcome to contact us on #mooltipass on freenode.net if you are interested in giving us a hand.

In the meantime, you may read the [previous sections](#) of this user manual, which explain how you can use the Mooltipass as a keyboard to type your credentials for you, without needing to install any additional applications.

## Contact, Support

Should you have any enquiries, require further information or if there is anything else we can do for you, please get in touch with us at [support\[at\]themooltipass\[dot\]com](mailto:support@themooltipass.com).

## Mooltipass Mini Specifications

- Device size: 79 x 37 x 12mm
- Working voltage: 4.75V to 5.25V
- Current consumption: up to 0.5A
- Communications: USB 2.0 full speed
- Internal Memory: 8Mb
- USB connector: micro
- Case material: Anodized Aluminum
- Smart card support: AT88SC102
- Touch interface type: clickable scroll wheel
- Display: 128x32 pixels monochrome 2.23" blue OLED screen