

Lock It - Technical Documentation

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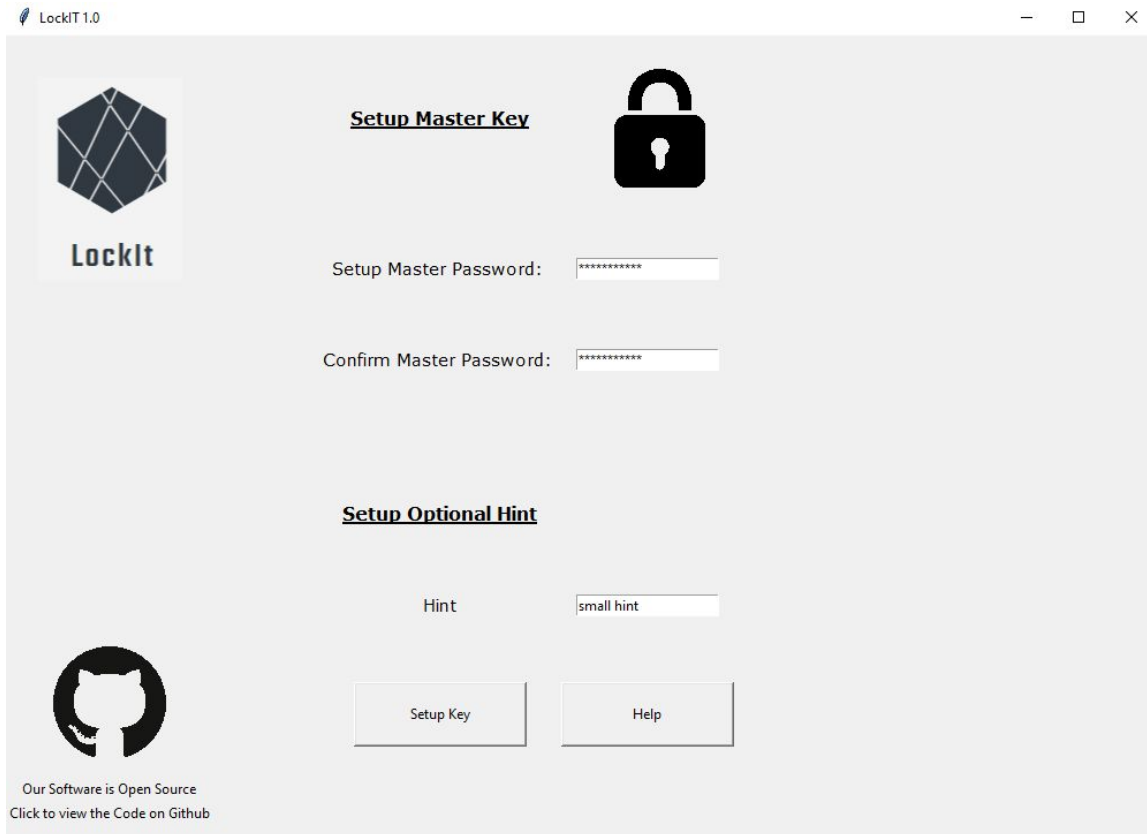
Add New Folder

1) Registration

a.) Setup Master Key Page

The '**Setup Master Key Page**' is the page you are initially brought to when launching LockIT for the first time. This page is used to set up a **master password** which will be used for logging into your LockIT account. This page has **Setup Master Password**, **Confirm Master Password**, and **Hint entry** fields for the user to fill in.

- Setup Master Password - The password which the user will use to login to LockIT.
- Confirm Master Password - Confirmation to make sure the user typed in the correct password.
- Hint - An optional entry for the user to type a hint to remind them of the master password.
- Github Icon - An Icon which links to the code for the LockIT Project on Github.
- Help Button - This button sends the user to a link which gives a description of the process of setting up LockIT.
- Setup Key Button - Saves the master key and the optional hint as the login information for the user.
- Error messages - Error messages are displayed if the master passwords were too weak, or if the hint and password are the same.



Features:

1. Github Icon

- **Single Click_** on the Github Icon will open the code for the LockIT Project on Github.

2. Help Button

- **Single Click_** on the Help Button will open a help page which briefly describes the process of setting up the LockIT.


3. Setup Key Button

- **Single Click_** on the Setup Key Button will save the entered password as your master password for logging into LockIT given that it passes the password complexity requirements.
- If the password does not match the password complexity requirements then the user will be prompted with one of the following errors.


4. Error messages

- Password must contain upper and lowercase characters

LockIt 1.0


LockIt

Setup Master Key



Setup Master Password:

Confirm Master Password:


Password must contain atleast one uppercase and one lowercase character

Setup Optional Hint

Hint


Setup Key

Help



Our Software is Open Source
Click to view the Code on Github

Password must contain at least 8 characters

LockIt 1.0


LockIt

Setup Master Key



Setup Master Password:

Confirm Master Password:


Password must contain atleast 8 characters

Setup Optional Hint

Hint


Setup Key

Help


Our Software is Open Source
Click to view the Code on Github


- Password must contain at least one digit (0-9)

LockIt 1.0



LockIt

Setup Master Key




Setup Master Password:

Confirm Master Password:

Password must contain atleast one digit (0-9)

Setup Optional Hint


Hint



Our Software is Open Source
Click to view the Code on Github


- Password must contain at least 1 special char (\$,%,^,...)

LockIt 1.0



LockIt

Setup Master Key




Setup Master Password:

Confirm Master Password:

Password must contain atleast one special character (\$,#,@ ...)

Setup Optional Hint

Hint



Our Software is Open Source
Click to view the Code on Github

Setup Key

Help

a. Initial Security Settings Page

The 'Initial Security Settings Page' is where the user will setup the security settings for access to the files stored in Lockit as well as automatic logout of LockIT after a certain period of time. The user is brought to this page after the initial setup of their master password. The page settings are '**Enable access to View Icon with Master Password**', '**Enable access to Copy Password with Master Password**' and '**Enable Automatic Logout**'.

- Enable access to View Icon with Master Password - This option if turned on will prompt the user to enter the master password they set up before viewing any file in LockIT.
- Enable access to Copy Password with Master Password - This option if turned on will prompt the user to enter the master password they set up before copying to clipboard any password in LockIT.
- Enable Automatic Logout - This option if turned on has a timer that will log the user out after a set amount of user inactivity.
- Save Button - Saves the user security settings. The user may change them at any time in the 'Change Security Settings' page.

Initial Security Settings

Enable Master Password Protection

Enables access to View Password/Media/Document Icon with Master Password

Enables access to Copy Password with Master Password

Enable Automatic Logout

Enables automatic logout of the software after a certain amount of inactivity

Set number of minute for automatic logout

Features:

1. Enable access to View Files Icon with Master Password

- **Single Click** the button 'Enable access to View Files Icon with Master Password' will turn the setting On/Off.

2. Enable access to Copy Password with Master Password

- **Single Click** the button 'Enable access to Copy Password with Master Password' will turn the setting On/Off.

3. Enable Automatic Logout

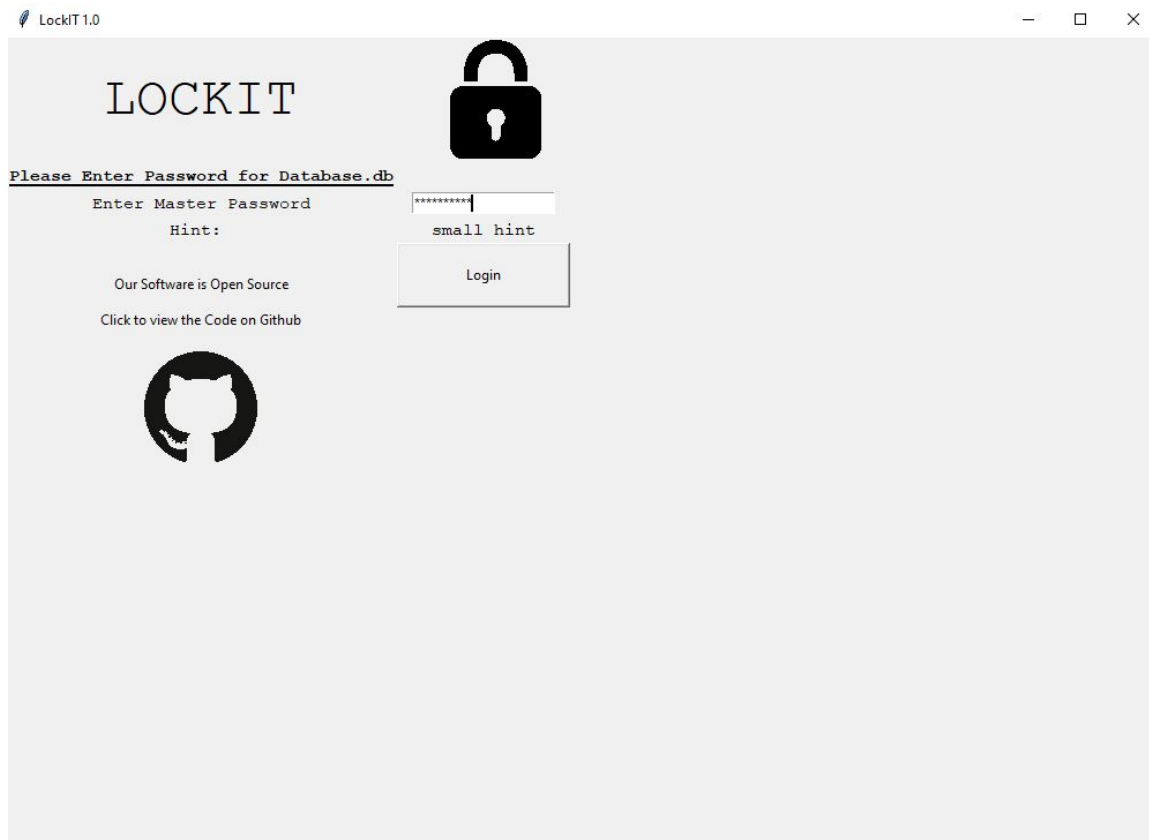
- **Single Click** on the button 'Enable Automatic Logout' will turn the setting On/Off.
- **Single Click** on the arrows up/down next to 'Set number of minutes for automatic logout' will set the number from 1-10. The Enable Automatic Logout setting must be 'On' in order to use this setting.

1. Log in

Login Page

The Login Page is used to pass the user through to their files and passwords after they have correctly entered the master key which was previously setup. If the user enters an incorrect master password, they will get an error message and not be able to access the LockIT files.

- Hint - Optional hint is displayed to remind the user about the master password.
- Login Button - This button logs the user into their LockIT account.
- Error messages - Error messages are displayed if the user incorrectly enters the master password.



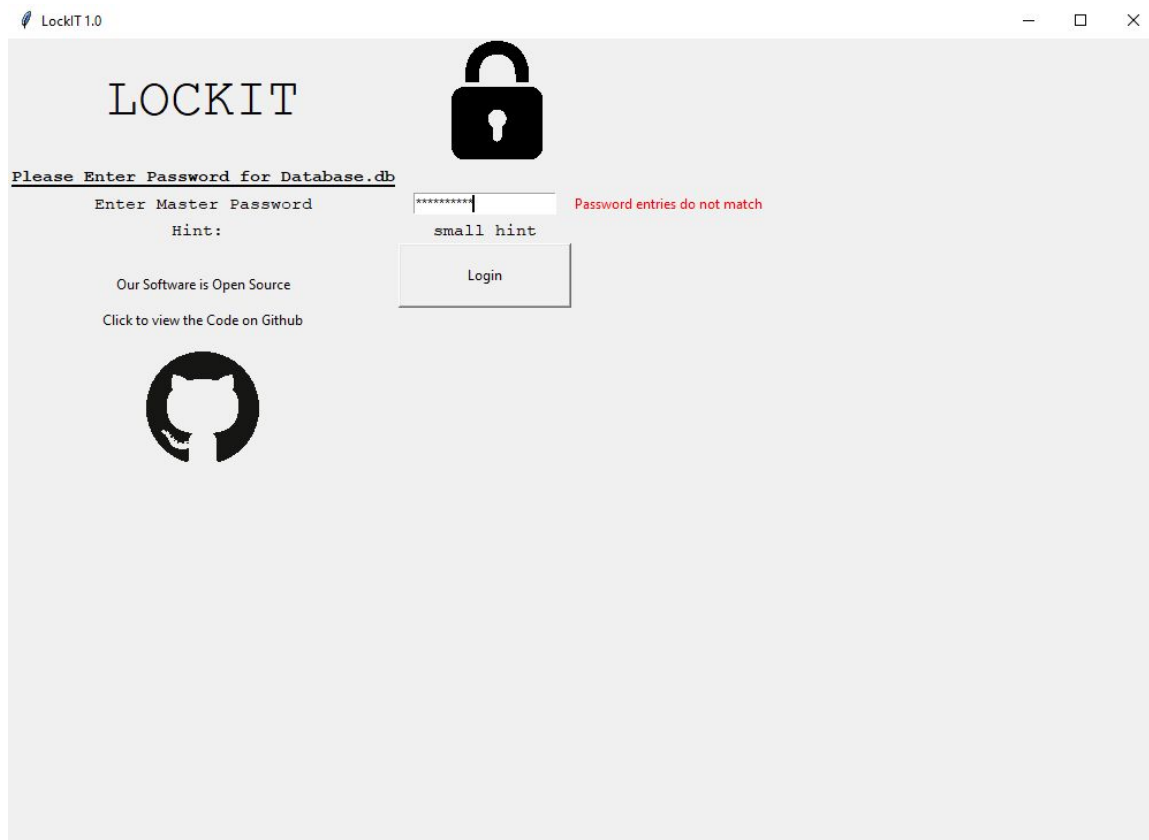
Features:

1. Login Button

- Will pass the user through to their LockIT account if the entry matches the master password.

2. Error messages

- If the entry does not match the master password you will be prompted with the error ***'Password entries do not match'***.



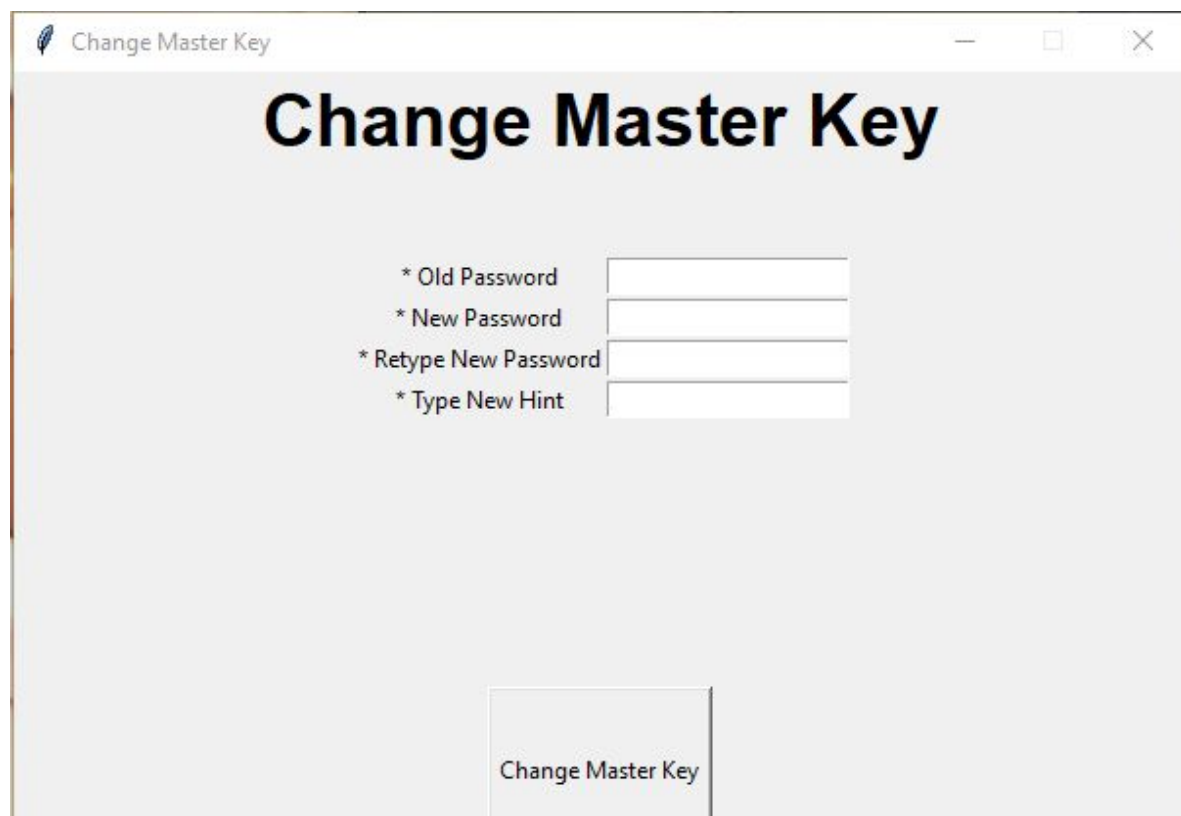
1. Menu Options



a. Change Master Key Page

The '**Change Master Key Page**' is used for updating the current master key to login into LockIT. This page can be found through the drop-down menu called '**Settings**' in the home page. This page has '**Old Password**' entry, '**New Password**' entry, '**Retype New Password**' entry, and a '**New Hint**' entries for the user to fill in.

- Old Password Entry - The current master password for LockIT.
- New Password Entry - The master password you want updated as the current password.
- Retype New Password Entry - A confirmation that you typed the new password correctly.
- New Hint Entry - A new optional hint entry to remind you about the master password.
- Change Master Key Button - Updates the master key information.
- Error messages - Error messages are displayed if the master passwords were too weak, or if the hint and password are the same.



Features

1. Change Master Key Button

- **Single Click** on the Change Master Key Button will update the new password as your master password for logging into LockIT given that it passes the password complexity requirements.

2. Error messages

- If the password does not match the password complexity requirements then the user will be prompted with one of the following errors.
- Please Input Old Password



The screenshot shows a 'Change Master Key' dialog box with a title bar containing a pencil icon, the text 'Change Master Key', and standard window controls (minimize, maximize, close). The main content area has a large title 'Change Master Key' and four input fields with labels: '* Old Password', '* New Password', '* Retype New Password', and '* Type New Hint'. The 'Old Password' field is empty, while the others contain masked text (asterisks) or the text 'big hint'. A red error message 'Please input old password' is displayed below the input fields. At the bottom center is a button labeled 'Change Master Key'.

* Old Password	
* New Password	*****
* Retype New Password	*****
* Type New Hint	big hint

Please input old password

Change Master Key

- Incorrect old master password



The screenshot shows a window titled "Change Master Key" with a standard macOS-style title bar (minimize, maximize, close buttons). The main content area has a light gray background and a large, bold title "Change Master Key" at the top. Below the title, there are four input fields with labels to their left:

- * Old Password: The input field contains eight asterisks "*****" and a cursor at the end.
- * New Password: The input field contains eight asterisks "*****".
- * Retype New Password: The input field contains eight asterisks "*****".
- * Type New Hint: The input field contains the text "big hint".

Below these fields, a red error message is displayed: "Incorrect old master password". At the bottom center of the dialog, there is a button labeled "Change Master Key".

- Password entries do not match

 Change Master Key — □ ×

Change Master Key

* Old Password	*****
* New Password	*****
* Retype New Password	*****
* Type New Hint	big hint

Password entries do not match

Change Master Key

- Password must contain at least one uppercase and one lowercase character

 Change Master Key

Change Master Key

* Old Password	*****
* New Password	*****
* Retype New Password	*****
* Type New Hint	big hint

Password must contain atleast one uppcase and one lowercase character

Change Master Key

- Password must contain at least one digit (0-9)

 Change Master Key

Change Master Key

* Old Password

* New Password

* Retype New Password

* Type New Hint

big hint

Password must contain atleast one digit (0-9)

Change Master Key

- Password must contain at least one special character (\$,#,@...)

Change Master Key

—

□

×

Change Master Key

* Old Password

* New Password

* Retype New Password

* Type New Hint

big hint

Password must contain atleast one special character (\$,#,@ ...)

Change Master Key

- Hint and password cannot be the same.

Change Master Key

—

□

×

Change Master Key

* Old Password	*****
* New Password	*****
* Retype New Password	*****
* Type New Hint	bigPassworD1!

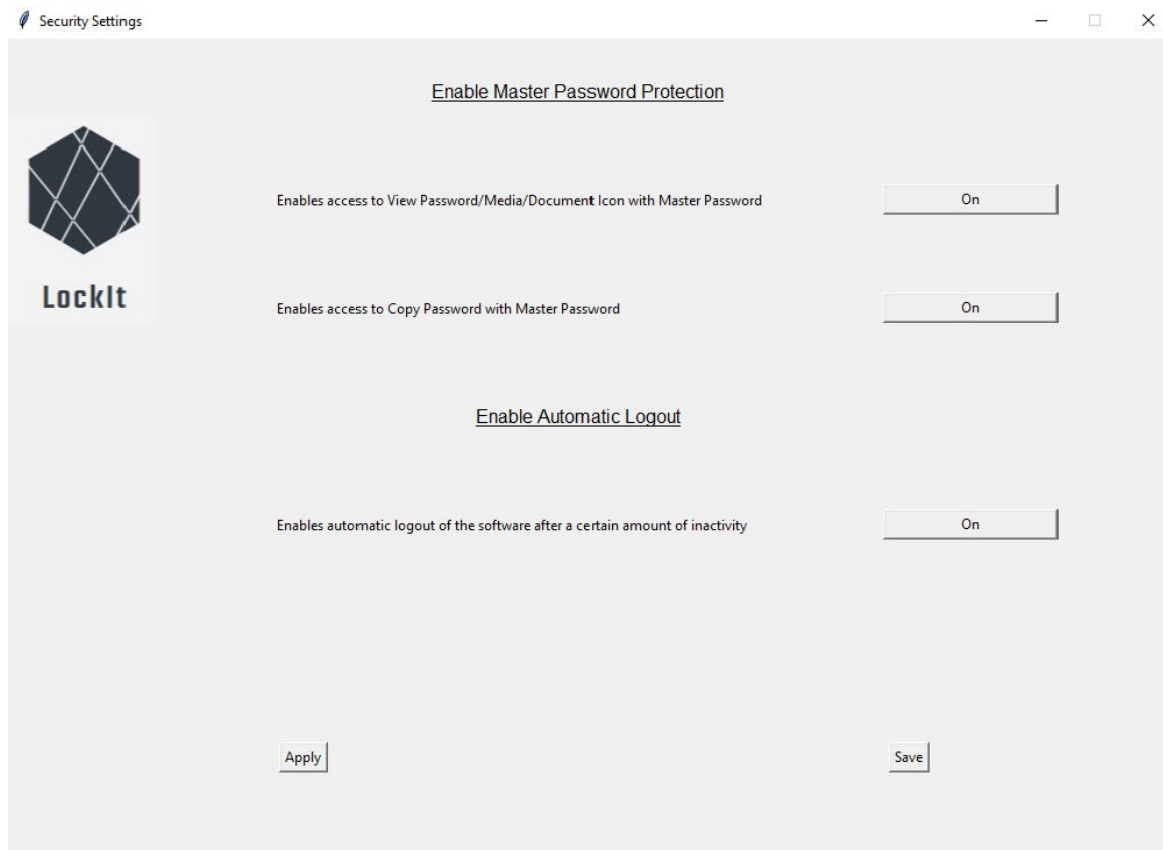
hint and password cannot be the same

Change Master Key

b. Security Settings Page

The Security Settings Page is used to update security settings in LockIT from the initial ones that were set up on previous Initial Settings page. The user is able to get to this page by a dropdown page from the main screen. The page settings are '**Enable access to View Icon with Master Password**', '**Enable access to Copy Password with Master Password**' and '**Enable Automatic Logout**'.

- Enable access to View Icon with Master Password - This option if turned on will prompt the user to enter the master password they set up before viewing any file in LockIT.
- Enable access to Copy Password with Master Password - This open if turned on will prompt the user to enter the master password they set up before copying to clipboard any password in LockIT.
- Enable Automatic Logout - This option if turned on has a timer that will log the user out after a set amount of user inactivity.
- Save Button - Saves the user security settings. The user may change them at any time in the 'Change Security Settings' page. Closes the Security Settings window once the settings have been updated.
- Apply Button - Same as the save button but keeps the Security Settings window open.



Features

1. Enable access to View Files Icon with Master Password

- **Single Click** the button 'Enable access to View Files Icon with Master Password' will turn the setting On/Off.

2. Enable access to Copy Password with Master Password

- **Single Click** the button 'Enable access to Copy Password with Master Password' will turn the setting On/Off.

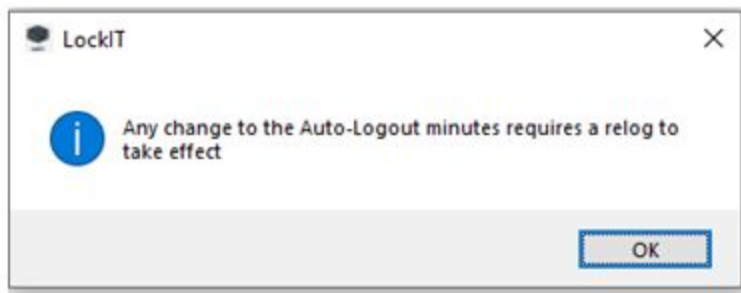
3. Enable Automatic Logout

- **Single Click** on the button 'Enable Automatic Logout' will turn the setting On/Off.
- **Single Click** on the arrows up/down next to 'Set number of minutes for automatic logout' will set the number from 1-10. The Enable Automatic Logout setting must be 'On' in order to use this setting.

4. Warning Popup Message

If the user changes the auto logout minutes setting in security settings , the software pops a message up for the user informing them they must re log into the account for these changes to take effect.

- **Warning Message** - This warning message informs the user to relog into the account for auto logout settings to take effect
- **Ok Button** - This button gets rid of the message after the user has read it.



Features:

1. Ok Button

- This button gets rid of the message after the user has read it.

1. Main Page

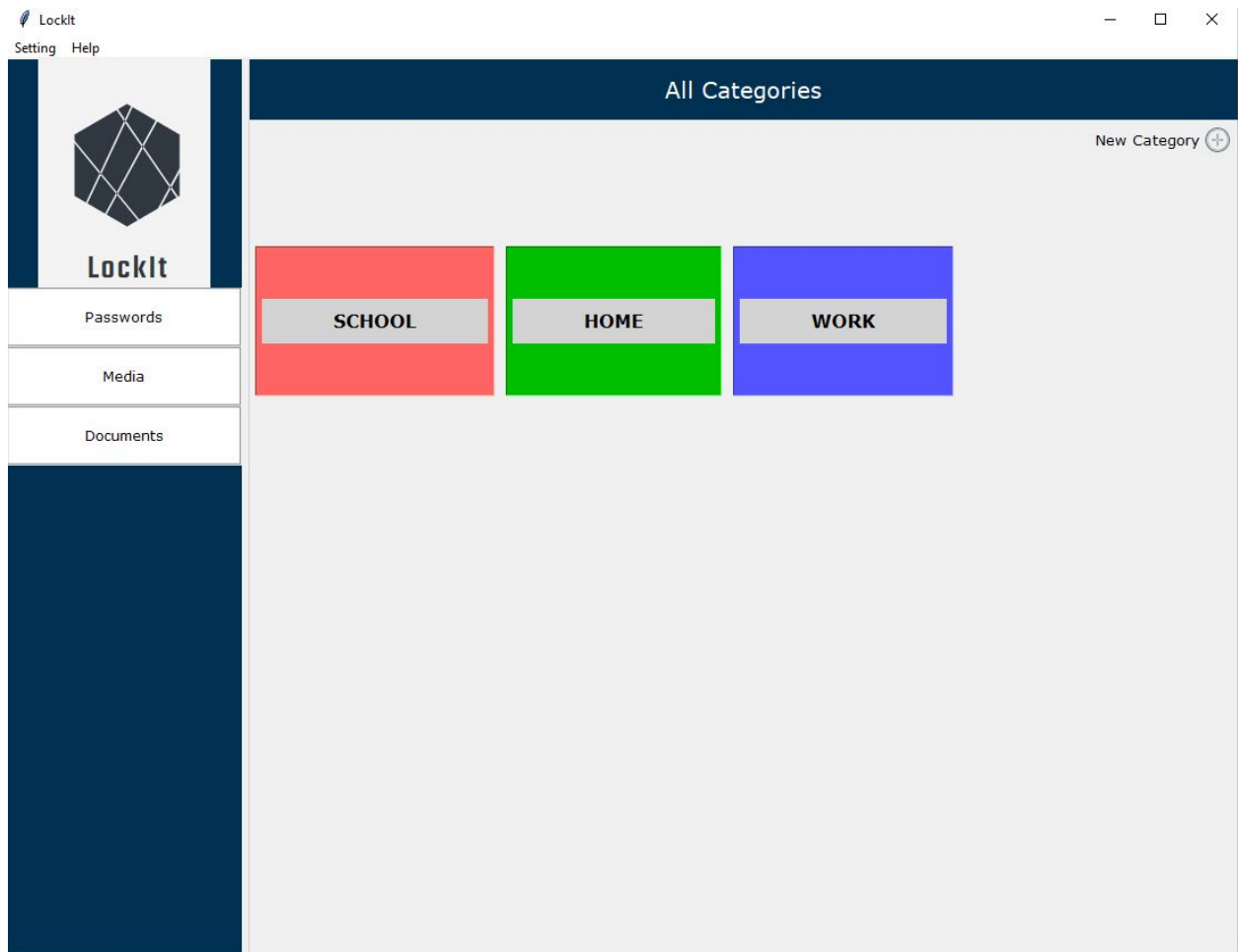
When the user logs in, this will be the view of the Main Page.

On the left menu, there are 3 tabs: Passwords, Media, Document.

Password tab – used by user to store passwords in different categories.

Media tab – used by user to store media files.

Documents tab – used by user to store document files.



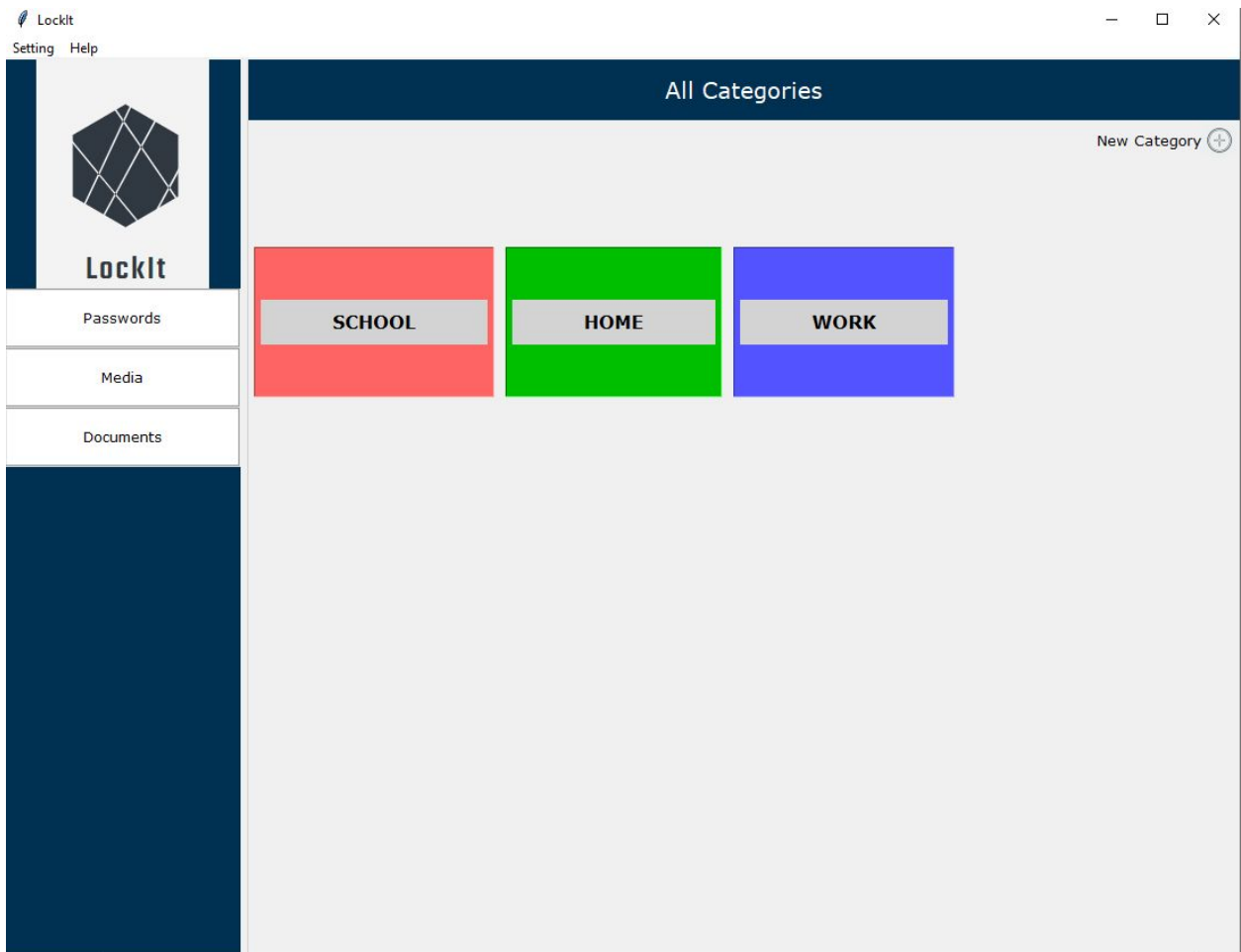
1. Password Tab

Password tab is used by the user to store passwords inside different categories. There are 3 predefined categories when the user first logs in: Home, School, Work. The user can create new categories, modify categories and delete categories.

a. Password Categories

The passwords tab opens a page to create new categories for passwords. It allows users to add, edit and delete categories with different names and colours.

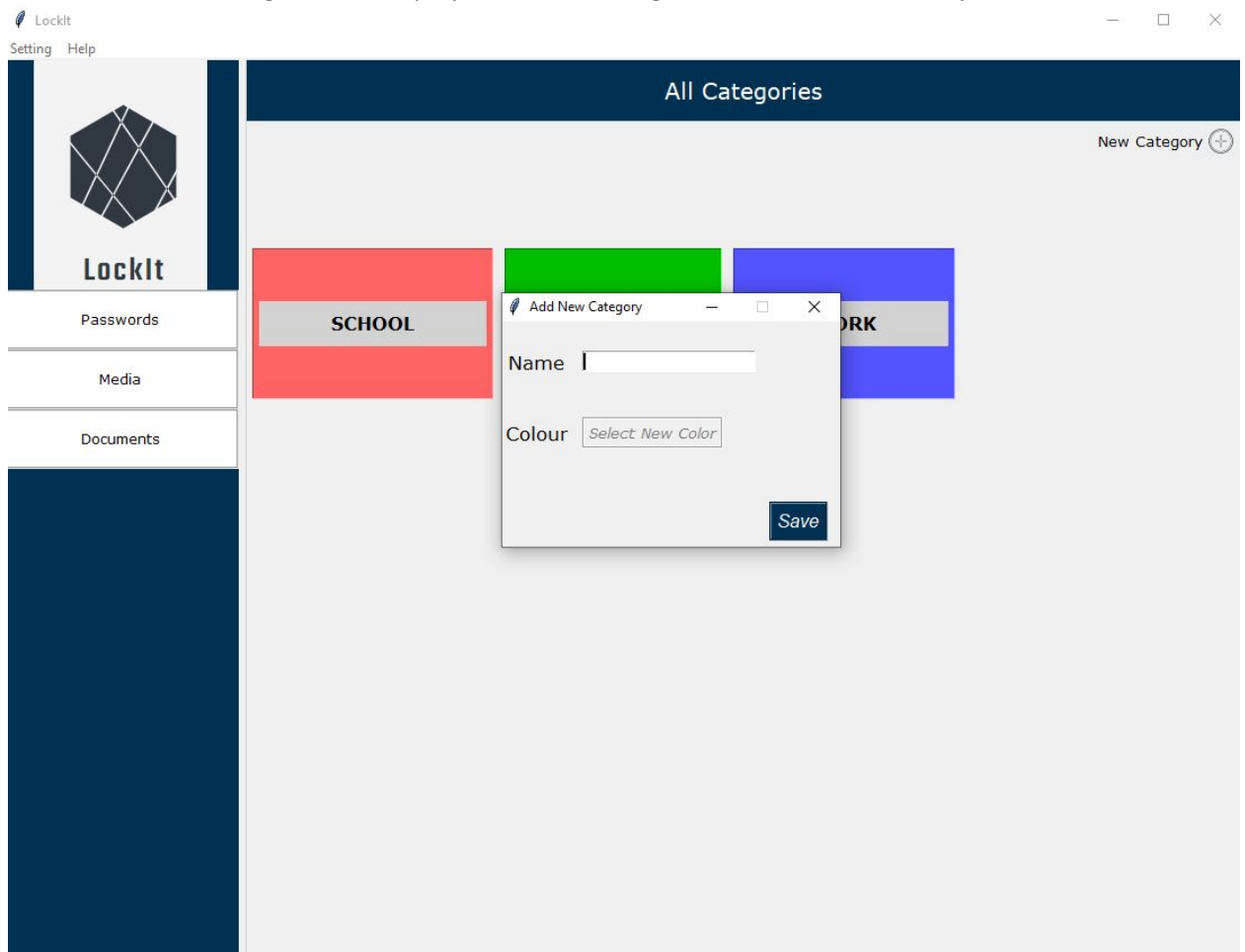
- Add new category button – opens a pop-up window form to enter name and colour of category.
- Name - Name of new category
- Colour- Category colour picker
- Save button – Saves the category name and colour in the database

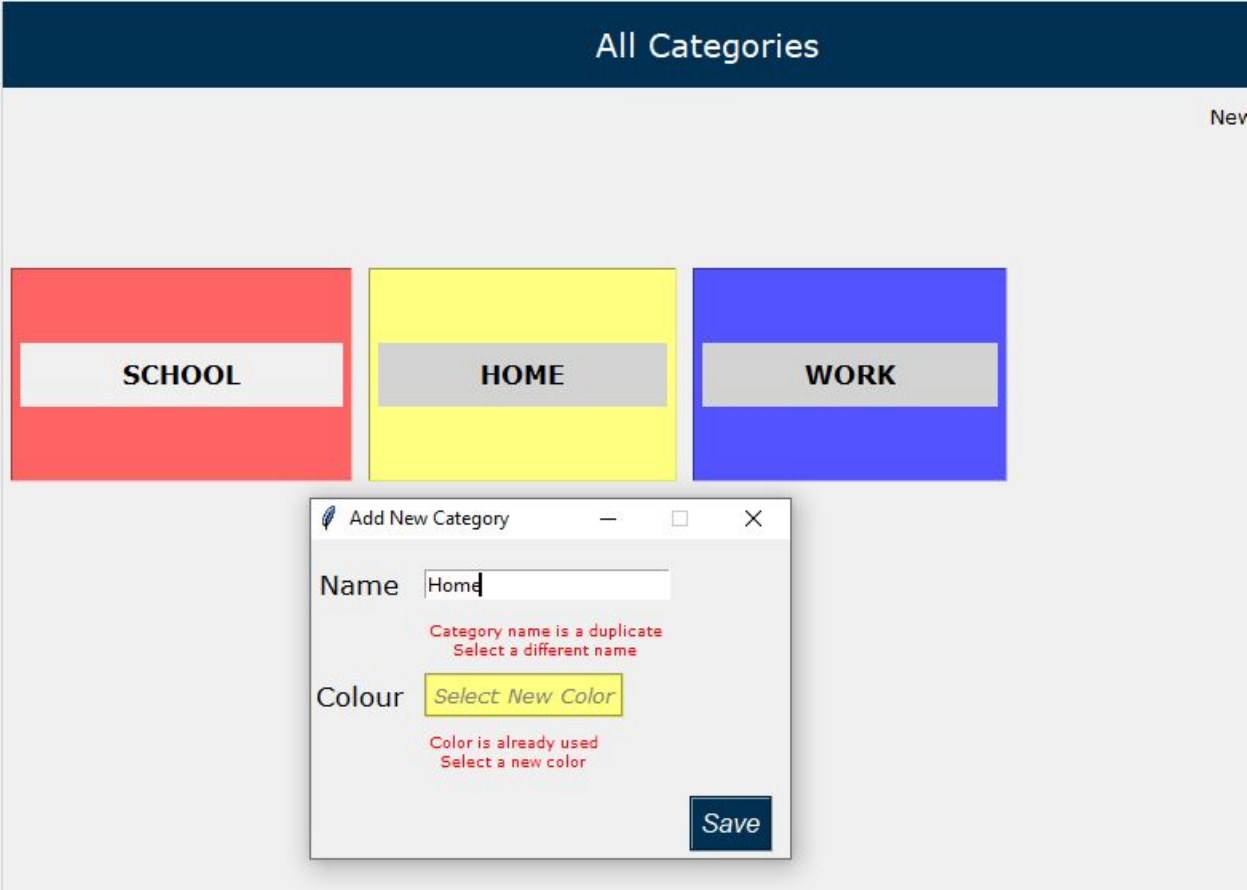


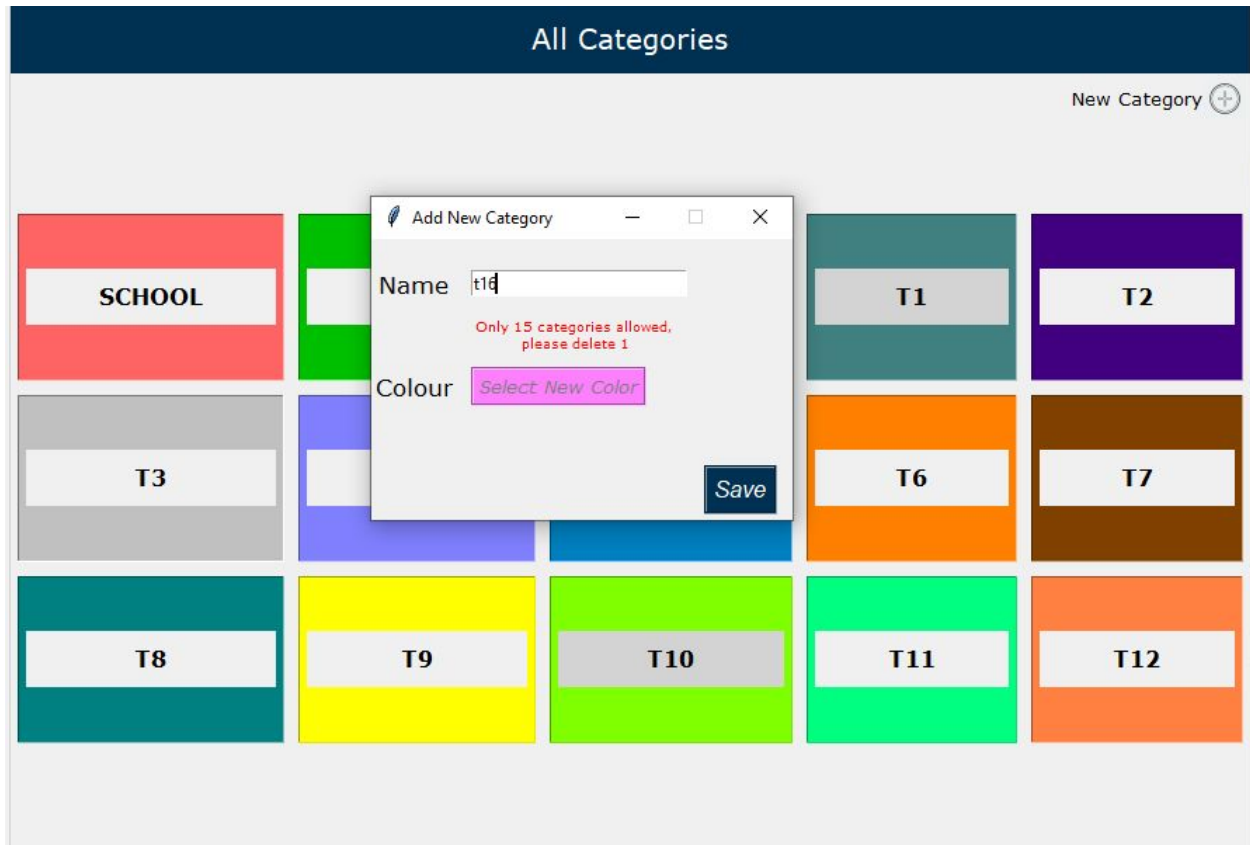
Features:

- **Single click** on “New Category” button will open pop-up window to add category name and colour.
- **Right click** on password category name will open a pop-up menu:
 - Edit category
 - Delete category
- **Left Double Click** on category will open a ‘View Passwords inside Category Page’.

1) **Add Category:** If user would like to add a new category, single click on New Category button to name new category and select the colour. The name of the category should be unique as well as the color. If the name of the category or the color is already used, error message will be displayed. Max 15 categories are allowed in the system.



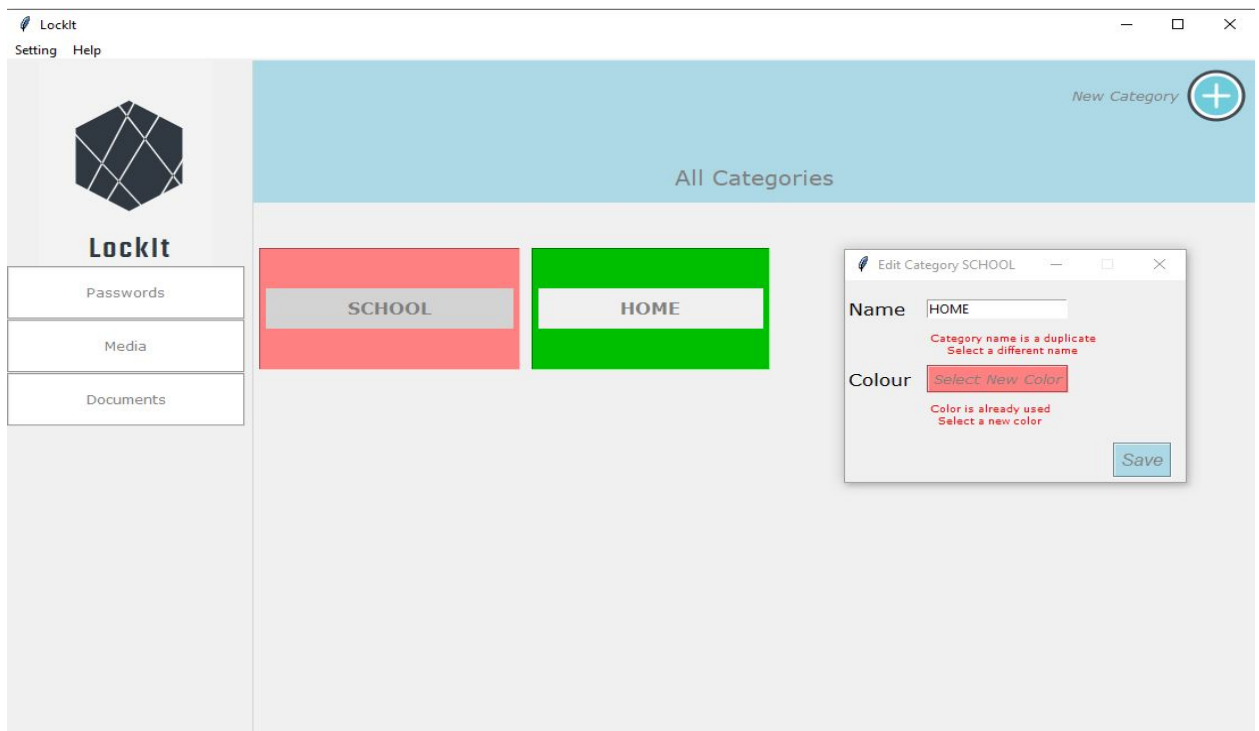




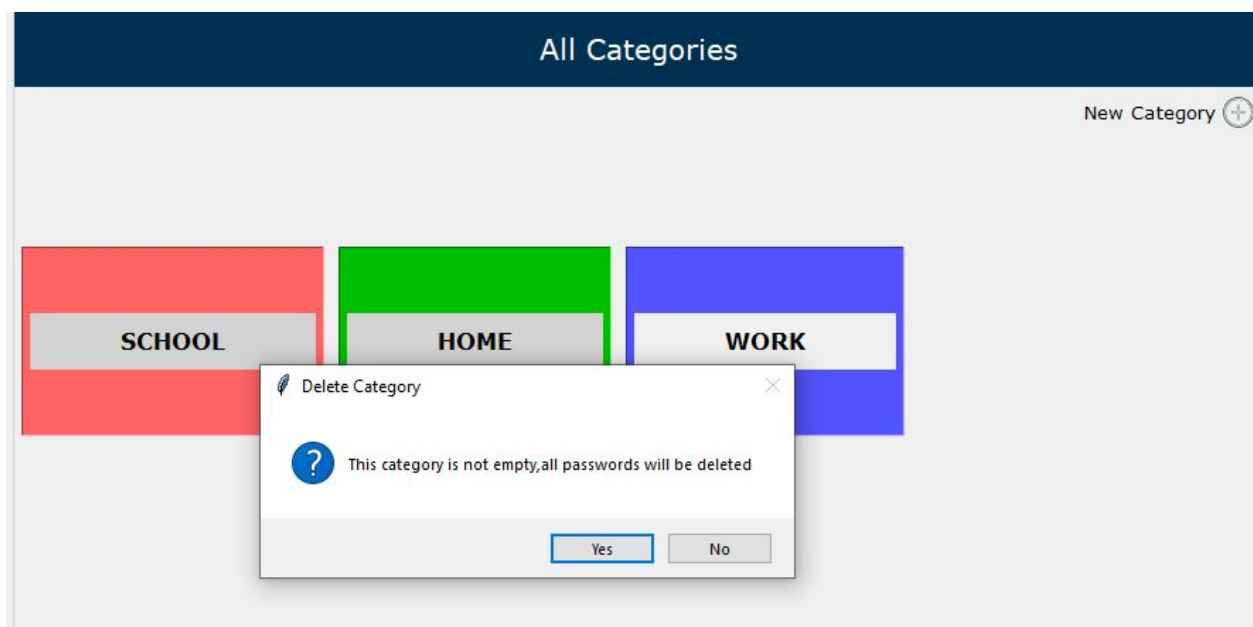
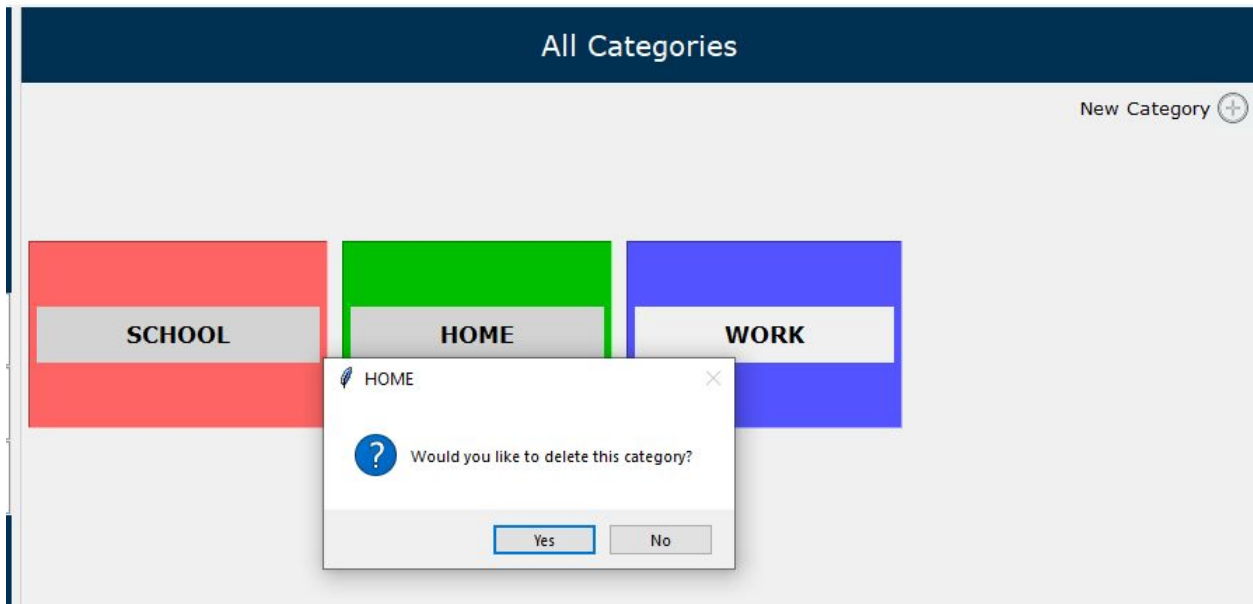
- 1) **Edit Category:** right click on category will open a pop-up menu. Left click on Modify category menu option will open edit category pop-up window, where the user can enter new name and colour. The name of the category should be unique as well as the color. If the name of the category or the color is already used, error message will be displayed.



- Duplicate error -> If editing a category creates duplicate name or colour then pop-up window will display error.



- 1.) **Delete category:** right click on category will open a pop-up menu. Left click on Delete category menu option will open delete category pop-up window, where user can select 'Yes' or 'No' button. Selecting yes will delete category. If the category has passwords entry it will open another pop-up window informing the user that all the passwords will be deleted. If user selects 'No', pop-up window will be closed.



1. View Passwords Inside Category Page

In this page the information about your passwords inside a specific category is presented in the table form. Each password has Entry name, Website (Optional), Username, Password and Timer.

- Entry name – the name of the password entry
- Website – the website the password is associated with
- Username – username associated with the password
- Password – the actual password
- Timer – specifies when the password is expired and need to be renewed.

LockIt
Setting Help

SCHOOL

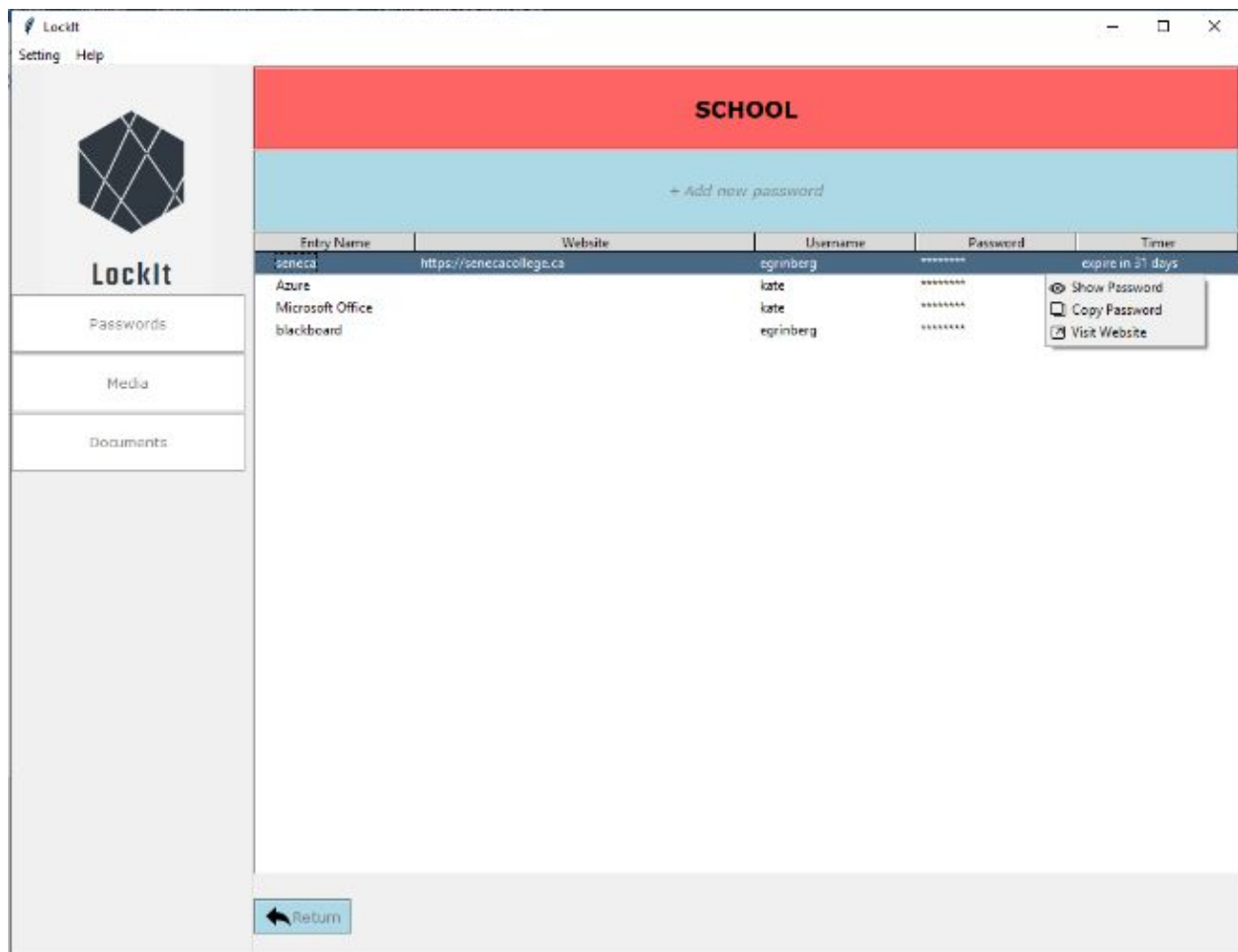
+ Add new password

Entry Name	Website	Username	Password	Timer
seneca	https://senecacollege.ca	egrinberg	*****	expire in 31 days
Azure		kate	*****	expire in 182 days
Microsoft Office		kate	*****	expire in 91 days
blackboard		egrinberg	*****	never expire

Return

Features:

- **Add new password button** – opens Add New Password Page to add a new password to the category.
- **Return Button** – goes back to all categories page.
- **Double click** - on selected password entry will open “View Password” page with detailed information about the password entry.
- **Right click** - on selected password entry will open a pop-up menu:
 - Show Password/Hide Password
 - Copy Password
 - Visit website

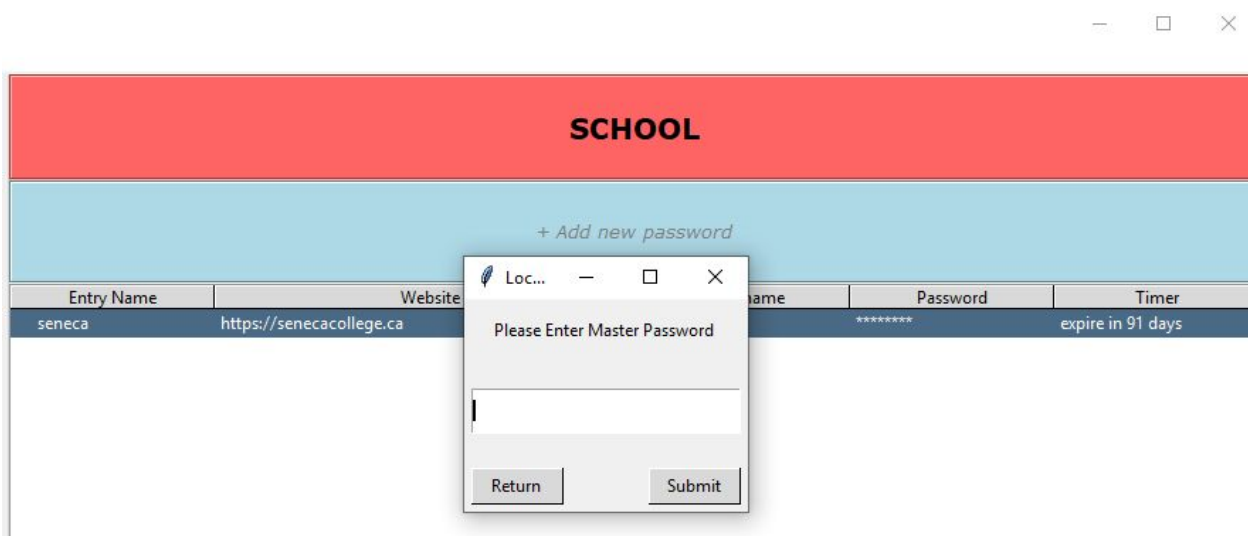


1. Show Password /Hide Password

If user would like to view the password and username, ***“Show Password”*** must be clicked. If

Password is shown and user would like to hide it ***“Hide Password”*** should be clicked.

- **Security Setting** – Enables access to view password is ON – Master Password will be required. If Master Password is entered correctly password will be decrypted and displayed to the user otherwise an error message will be displayed ***“Password entries do not match”***



- **Security Setting** – Enables access to view password is OFF – password is decrypted from Database and displayed to the user

SCHOOL				
+ Add new password				
Entry Name	Website	Username	Password	Timer
seneca	https://senecacollege.ca	egrinberg	~9Khw,!:c)GCV,7R	expire in 91 days


- **Timer** – If timer states that the password is expired, the user won't be able to view password until the user renews the expired password.

SCHOOL

+ Add new password

Entry Name	Website	Username	Password	Timer
seneca	https://senecacollege.ca	egrinberg	*****	expire in 91 days
blackboard		kate	*****	Password is expired

Error

 Your password is expired, please create new password for this entry

OK

2. Copy Password


- **Security Setting** – Enables access to copy password is ON – Master Password will be required. If Master Password is entered correctly password will be decrypted from DB and copied to clipboard otherwise an error message will be displayed “***Password entries do not match***”
- **Security Setting** – Enables access to copy password is OFF – password is decrypted from DB and copied to clipboard.

SCHOOL

+ Add new password

Entry Name	Website	Username	Password	Timer
seneca	https://senecacollege.ca	egrinberg	~9Khw,;!c)GCV,7R	expire in 91 days

Copy Password

 ~9Khw,;!c)GCV,7R is now in your clipboard

OK


- **Timer** – If timer states that the password has expired, the user won't be able to copy the password until the user renews the expired password.

SCHOOL

+ Add new password

Entry Name	Website	Username	Password	Timer
seneca	https://senecacollege.ca	egrinberg	*****	expire in 91 days
blackboard		kate	*****	Password is expired

Error

 Your password is expired, please create new password for this entry

OK

3. Visit Website

- Website is specified – by clicking “**visit website**” will open the website on default browser
- Website is not specified – by clicking “**visit website**” will open error window

SCHOOL

+ Add new password

Entry Name	Website	Username	Password	Timer
seneca	https://senecacollege.ca	egrinberg	*****	expire in 91 days
blackboard		kate	*****	Password is expired

Website

✕

⚠

There is no website for this entry

OK

2. Add New Password Page

This page is used to fill information about new password entry.

LockIt

Setting Help

LockIt

Passwords

Media

Documents

SCHOOL

Create New Password Entry

② Entry name:

② Website(optional):

② Username:

② Password:

👁

Generate Password

Password Strength Meter

② Security Level:

Select security level

② Notes:

② Security Questions:

☐ Yes

☐ No

Return

Save

Fields to fill:

- **Entry name (Mandatory):**

- Must be unique in the category
- Entry name can only contain alphabetical and numeric characters
- Entry name must be between 2 to 35 characters long

- **Website (Optional):**

- If specified should use form http://

- **Username (Mandatory):**

- Username should not contain spaces
- Username must be between 2 to 50 characters long

- **Password (Mandatory):**

Password cannot match more than 3 passwords in the database.

- Can be created by the user
 - Should have minimum 6 characters
 - Should have at least 1 Uppercase letter
 - Should have at least 1 number
 - Should have at least 1 special character
- Can be created by Generate Password Button
 - Click 'Generate Password' button and password will be generated for the user

- **Security Level (Mandatory):**

Security Level generates security timer for the password. The expiry date of the password depends on the security level selected.

- Security level 'not secure' is not generating a security timer in the system.

- Security level 'low' generating security timer to 6 months in the system.
- Security level 'medium' generating security timer to 3 months in the system.
- Security level 'high' generating security timer to 1 month in the system.

- **Notes (Optional):**

- The user can input any comments/notes related to the password entry

- **Security Questions (Mandatory):**

Most of the time when user creates accounts on different websites, it is required to answer security questions. In LockIt the user is able to store security answers to these questions.

- The user should select '**Yes**'/'**No**' if wants to store security answers.

- **Num Security Answers (Mandatory):**

This field will be shown only if the radio button "**Security Questions**" is selected '**Yes**'

- The user should select the number of answers he/she would like to store in the entry.

- **Security Answers (Mandatory):**

This field will be shown after the user selects the number of answers.

The number of fields to fill is depended on the number selected in the "**Num Security Answers**".

- Security Answers must be between 2 to 50 characters long

Features:

- **Question Mark Icon** – If clicked, a pop-up information window will pop up with information regarding the field.

The screenshot shows a web interface titled "SCHOOL" with a sub-header "Create New Password Entry". A pop-up window titled "Entryname..." is open, displaying three requirements: "*Should be between 2 to 35 characters long", "*Should be alphanumeric", and "*Should be unique in the category". Below the pop-up is a "Password Strength Meter" bar. To the right of the meter is an "Eye" icon and a "Generate Password" button. At the bottom left, there is a "Security Level:" label and a "Select security level" button.

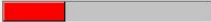
- **Eye Icon** – By default the password in the password field is displayed in * format. If eye icon is clicked, the password will be displayed. In order to return to default format, the eye icon should be clicked again.

The first screenshot shows the "Password:" label followed by a text field containing asterisks "*****". To the right of the field is an "Eye" icon and a "Generate Password" button. The second screenshot shows the same "Password:" label and text field, but the asterisks have been replaced by the actual password "2fdr=#1T*Jm&.-r?". The "Eye" icon and "Generate Password" button remain to the right.

- **Generate Password Button** – If user would like a strong password, by pressing “Generate Password” the system would always generate a strong password.
- **Password Strength Meter** – indicates how strong the password that is entered.
 - o **Red color** - Weak Password
 - o **Yellow color** – Moderate Password
 - o **Green color** – Strong Password

② Password:

Weak




② Password:

Moderate



② Password:

Strong



- **Return button** – by pressing the return button, the form will be cleared and NOT saved and the user will return to “**View Passwords Inside Category**” Page.
- **Save button** – by pressing the save button, the information in the form will be validated. If errors in the form are exist the error messages will be displayed. If the form passes the validation, the password entry will be stored in the database and the “**View Passwords Inside Category**” Page will be displayed with the new password entry.

SCHOOL

Create New Password Entry

② Entry name:

Please enter entry name

② Website(optional):

② Username:

Please enter username

② Password:

Please enter password

Password Strength Meter

② Security Level:

Select security level

Please select security level

② Notes:

② Security Questions: ☐ Yes ☐ No Please select yes / no

👁

Generate Password

Return

Save

View Password Page

This page displays detailed information about the password entry.

The fields in this page are disabled and used for view only.


The screenshot shows the LockIt application interface. On the left is a sidebar with the LockIt logo and three menu items: Passwords, Media, and Documents. The main area has a red header bar labeled 'SCHOOL' and a light blue sub-header bar labeled 'View Entry'. The form displays the following information:

- Entry name: blackboardTest
- Website(optional): https://my.senecacollege.ca/ (with an external link icon)
- Username: egrinberg
- Password: (masked with asterisks and an eye icon)
- Security Level: high (with a dropdown arrow)
- Notes: (a text area containing the word 'Test')
- Security Questions: (radio buttons for Yes/No)
- Number of Security Questions: 5 (with a dropdown arrow)
- Security Answer 1: dog
- Security Answer 2: cat
- Security Answer 3: pizza
- Security Answer 4: apple
- Security Answer 5: banana


At the bottom, there are three buttons: 'Return' (with a left arrow), 'Delete' (with a trash icon), and 'Modify' (with a pencil icon).

Features:



- **Go to Icon** – This icon button is used to open the website that is associated with the password entry. When the icon button is clicked, the website will be opened in the default browser. If website is not specified, the icon button does nothing.

Website(optional): 

- **Eye Icon** – By default the password in the password field is displayed in * format. If eye icon is clicked, the password will be displayed. In order to return to default format, the eye icon should be clicked again.

Password: 


If password is expired the user won't be able to see the password. Error message will pop-up.

Password:  

Security Level:



Notes:

Error

 Your password is expired, please create new password for this entry

OK


- **Error Icon** – If password is expired the error icon button is displayed. By clicking on error icon button, the error message is displayed.

Password:  

Security Level:

Notes:


Error

 Your password is expired, please create new password for this entry


OK

- **Return Button** – by pressing the return button, the user will return to “***View Passwords Inside Category***” Page.
- **Delete Button** - by pressing the Delete button, a pop-up window will be displayed confirming that the user wants to delete this entry. If user selects ‘**Yes**’, the password entry will be permanently deleted from the database and “***View Passwords Inside Category***” Page will be displayed with updated list of passwords in the category.

Entry name:

Website(optional): 


Username:

Password: 

Security Level:

Notes:

blackboardTest

 Would you like to delete this password entry?

Yes No

Security Questions: ☒ Yes ☐ No

Number of Security Questions:

Security Answer 1:
 Security Answer 2:
 Security Answer 3:
 Security Answer 4:
 Security Answer 5:

- **Modify Password button** - by pressing the Modify button, a “Modify Password” page will be open. On this page the user can Modify the details of the password entry.

3. Modify Password Page

This page is used to modify information of password entry.

The information in the fields is populated from database.

The screenshot shows a web application window titled 'LockIt' with a sidebar containing 'Setting' and 'Help' links. The main content area is titled 'SCHOOL' and 'Modify Entry'. It contains the following fields and controls:

- Entry name:** A text input field containing 'blackboard'.
- Website(optional):** An empty text input field.
- Username:** A text input field containing 'kate'.
- Password:** A password input field with masked characters '*****'. To its right is an eye icon and a 'Change Password' button.
- Security Level:** A dropdown menu showing 'high'. Above it is a green progress bar labeled 'Strong'.
- Notes:** A large text area containing the word 'test'.
- Security Questions:** Radio buttons for 'Yes' and 'No', with 'No' selected.

At the bottom of the form are three buttons: 'Return' (with a back arrow icon), 'Delete' (with a trash can icon), and 'Save' (with a checkmark icon).

Fields to fill:

- **Entry name (Mandatory):**

- Must be unique in the category
- Entry name can only contain alphabetical and numeric characters
- Entry name must be between 2 to 35 characters long

- **Website (Optional):**

- If specified should use form http://

- **Username (Mandatory):**

- Username should not contain spaces
- Username must be between 2 to 50 characters long

- **Password (Mandatory):**

Password cannot match more than 3 passwords in the database.

- Can be created by the user
 - Should have minimum 6 characters
 - Should have at least 1 Uppercase letter
 - Should have at least 1 number
 - Should have at least 1 special character
- Can be created by Generate Password Button
 - Click 'Generate Password' button and password will be generated for the user

- **Security Level (Mandatory):**

Security Level generates security timer for the password. The expiry date of the password depends on the security level selected.

- Security level 'not secure' is not generating a security timer in the system.

- Security level '**low**' generating security timer to 6 months in the system.
 - Security level '**medium**' generating security timer to 3 months in the system.
 - Security level '**high**' generating security timer to 1 month in the system.
- **Notes (Optional):**
 - The user can input any comments/notes related to the password entry
 - **Security Questions (Mandatory):**

Most of the time when user creates accounts on different websites, it is required to answer security questions. In LockIt the user is able to store security answers to these questions.

- The user should select 'Yes'/'No' if wants to store security answers.
- **Num Security Answers (Mandatory):**

This field will be shown only if the radio button "Security Questions" is selected 'Yes'

 - The user should select the number of answers he/she would like to store in the entry.
 - **Security Answers (Mandatory):**

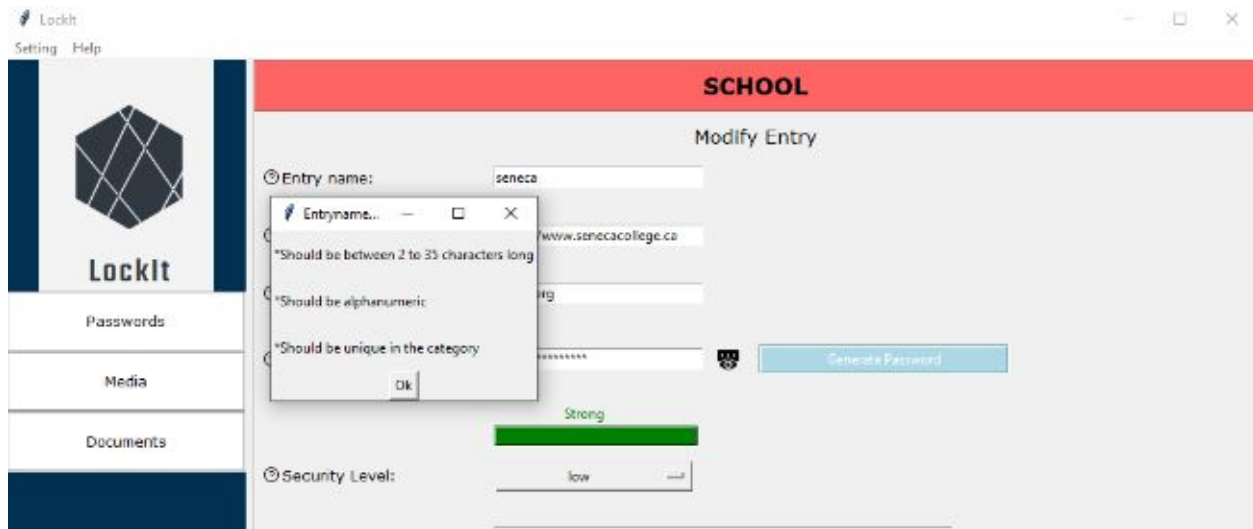
This field will be shown after the user selects the number of answers.

The number of fields to fill is depended on the number selected in the "**Num Security Answers**".

- Security Answers must be between 2 to 50 characters long

Features:

- **Question Mark Icon** – If clicked, a pop-up information window will pop up with information regarding the field.



- **Eye Icon** – By default the password in the password field is displayed in * format. If eye icon is clicked, the password will be displayed. In order to return to default format, the eye icon should be clicked again.



- **Generate Password Button** – If user would like a strong password, by pressing “**Generate Password**” the system would always generate a strong password.
 - **Generate Password Button Red Background-** password is expired. Press this button to generate new password.


HOME

Modify Entry

② Entry name:

② Website(optional):

② Username:

② Password:  Generate Password

Strong

② Security Level:

② Notes:

② Security Questions: ☐ Yes ☒ No

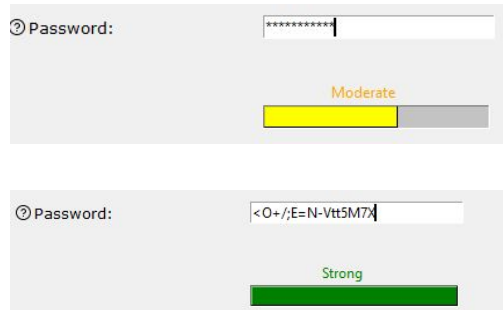
Return

Delete
Save

- **Password Strength Meter** – indicates how strong the password that is entered.
 - **Red color** - Weak Password
 - **Yellow color** – Moderate Password
 - **Green color** – Strong Password

② Password:

Weak



② Password: [password field with 8 asterisks]

Moderate

② Password: [password field with '<O+;/E=N-Vlt5M7X']

Strong

- **Return button** – by pressing the return button, the form will be cleared and NOT saved and the user will return to “**View Password**” Page.
- **Save button** – by pressing the save button, the information in the form will be validated. If errors in the form exist the error messages will be displayed. If the form passes the validation, the password entry will be updated and stored in the database and the “**View Passwords Inside Category**” Page will be displayed with the updated password entry.
- **Delete Button** - by pressing the Delete button, a pop-up window will be displayed confirming that the user wants to delete this entry. If user selects ‘**Yes**’, the password entry will be permanently deleted from the database and “**View Passwords Inside Category**” Page will be displayed with updated list of passwords in the category.

HOME

Modify Entry

② Entry name:

② Website(optional):

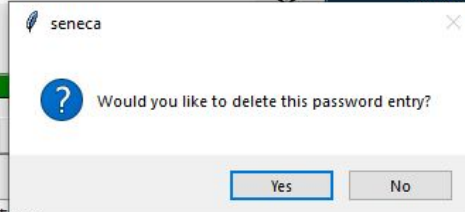
② Username:

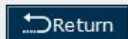
② Password: 

② Security Level:

② Notes:

② Security Questions: ☐ Yes ☒ No



 Return

Delete

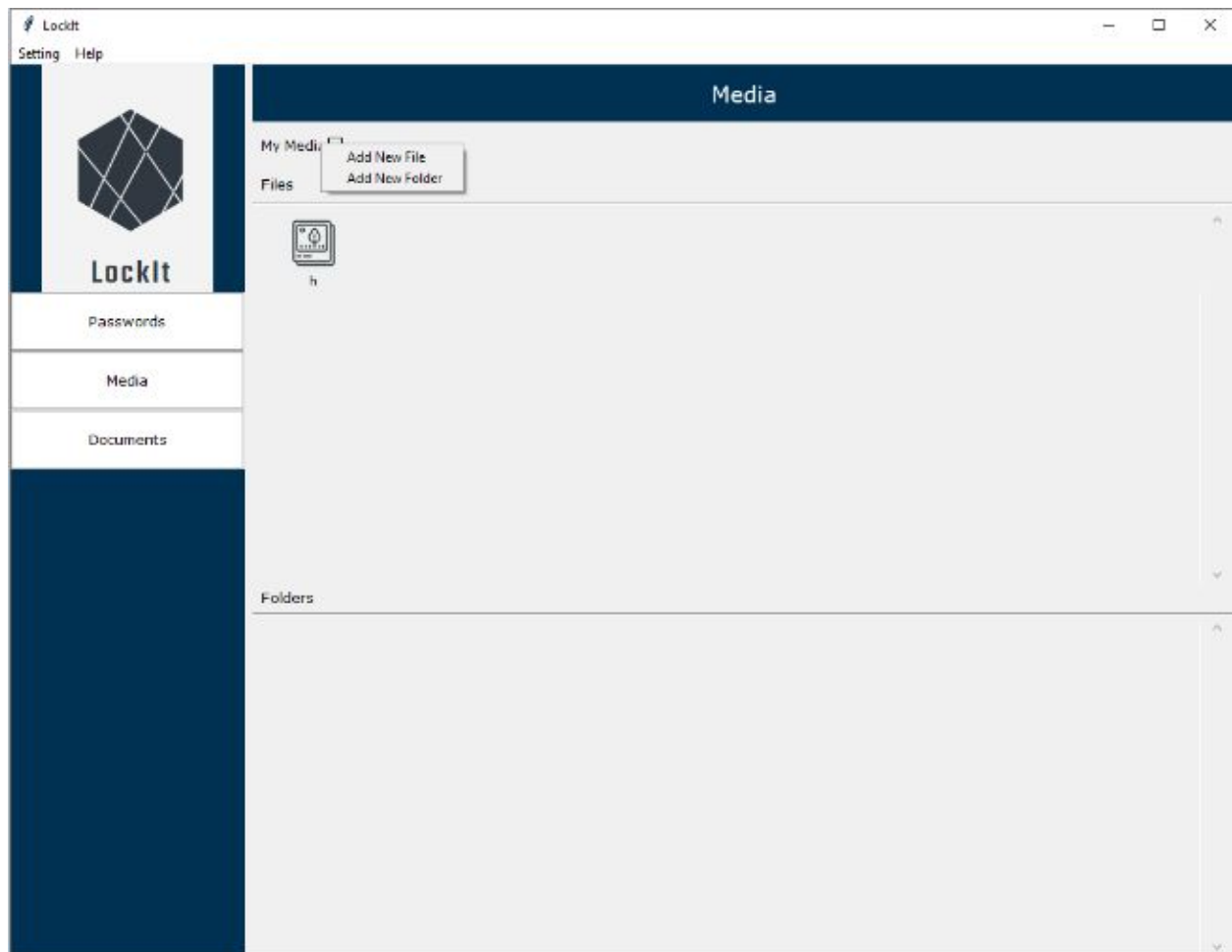
 Save

4. Media Tab

Media tab is used by the user to store media files. The user has the option to create folders and store the media files in the folders as well.

My Media drop down menu

- Add new File – adds new file to database
- Add new Folder – adds new folder to database



a. Add New Media file

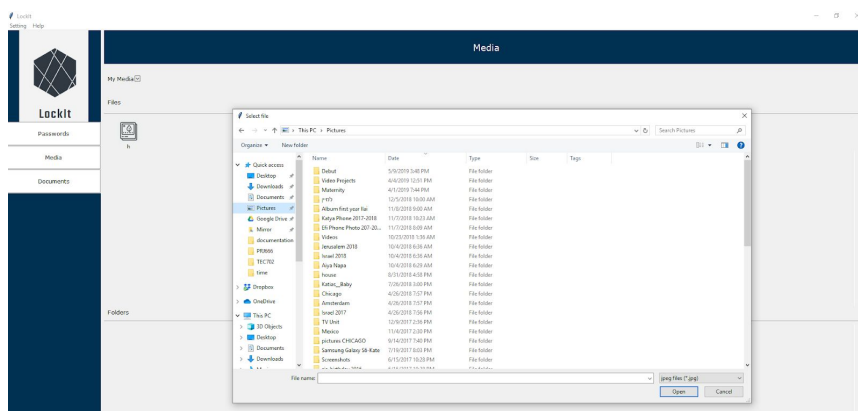
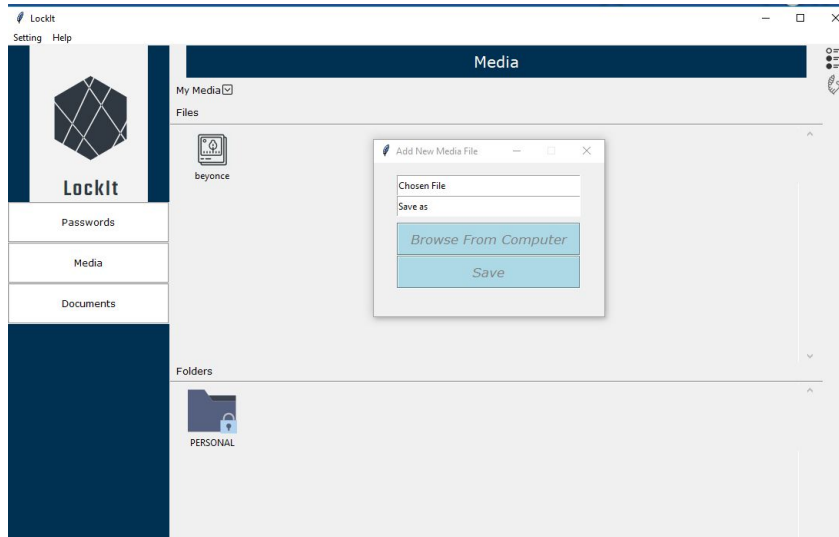
The add new file option opens allows for the user to add a new and encrypted file onto the application's database.

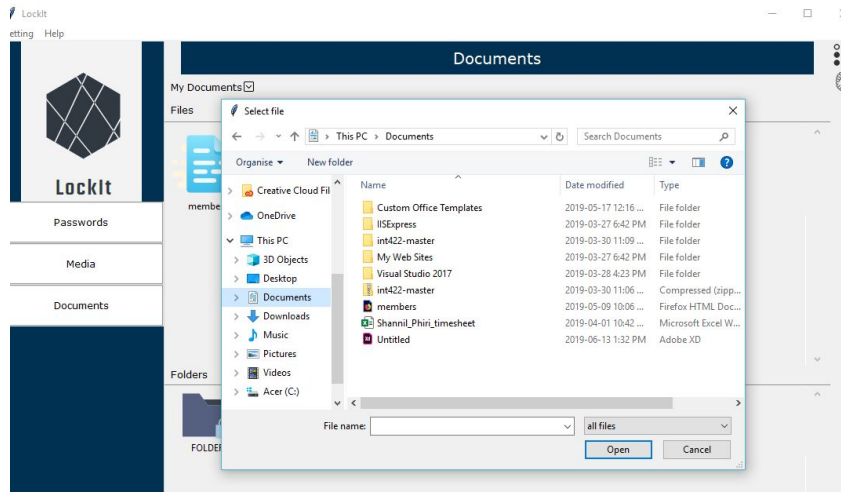
The features of this option are:

- Browse from computer button.
- File explorer

- Save as textbox.
- Save button.

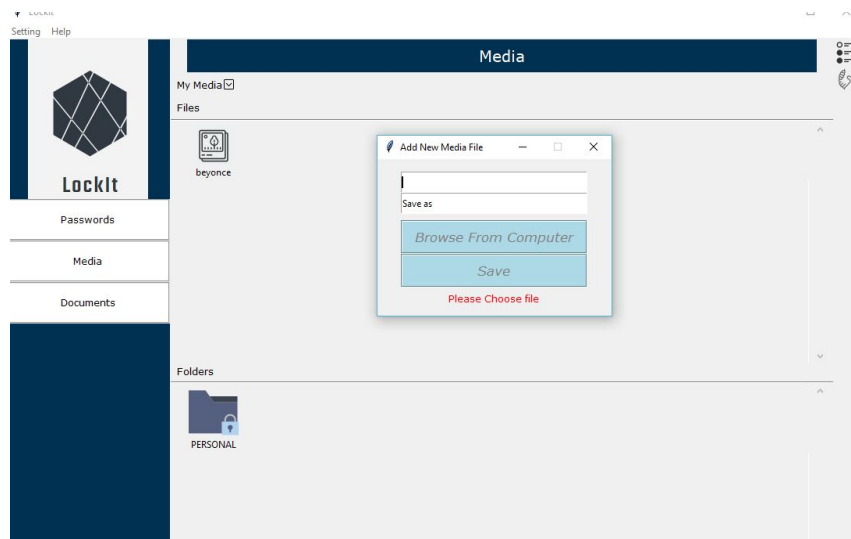
When user clicks Browse from computer a file explorer opens on the local computer to choose a file to save.



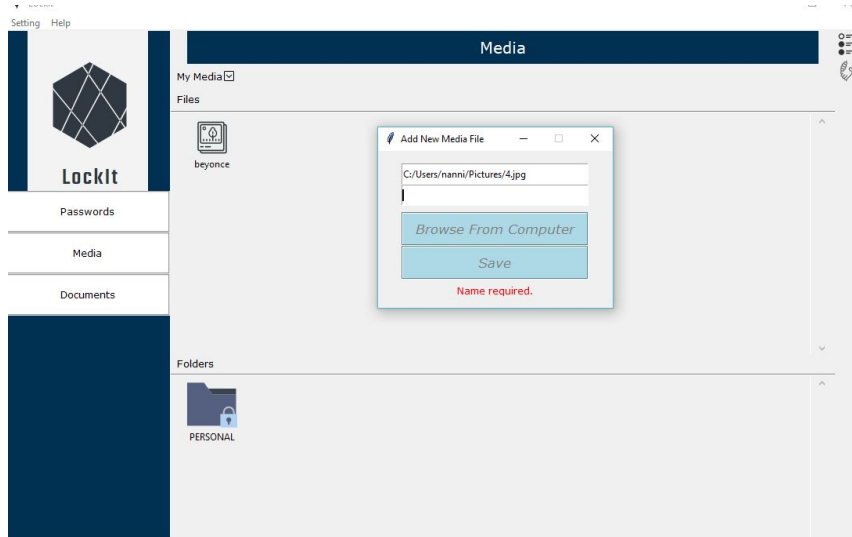


ERRORS

If user clicks cancel and attempts to save without choosing a file an error will show at the bottom of the window to **“Please choose file”**.

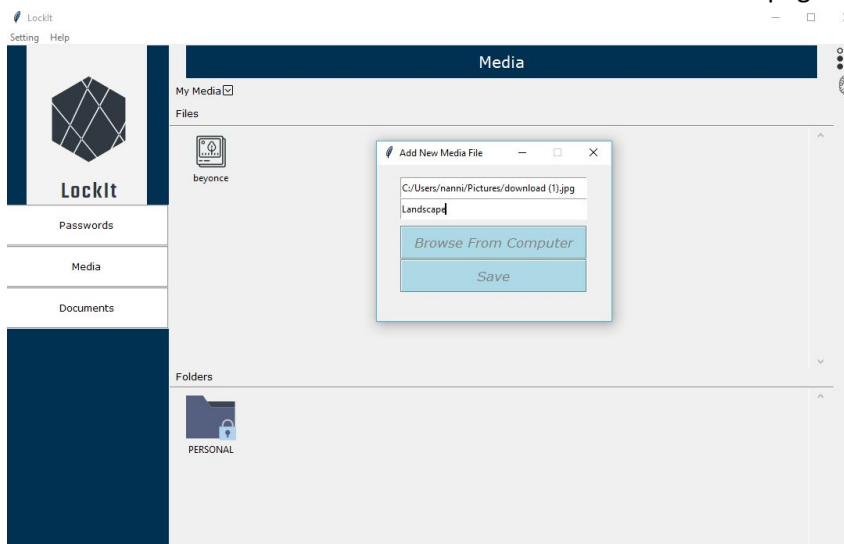


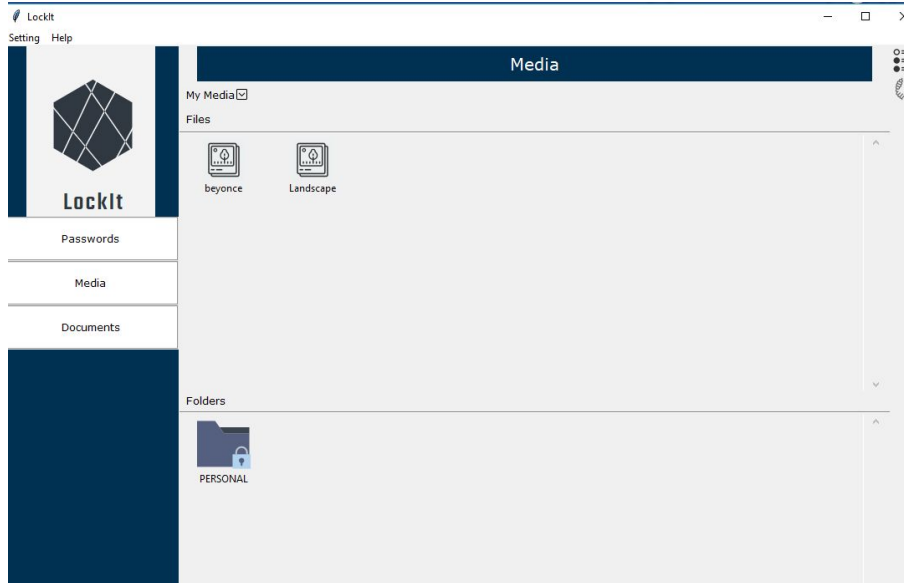
If the user chooses a file and attempts to save the file without inserting a name an error stating to **“Name required”** will show at the bottom of the window.



END RESULT

The save button converts the file into a BLOB type and encrypted and saved onto the application's database. And when all is done it is then loaded onto the media page.



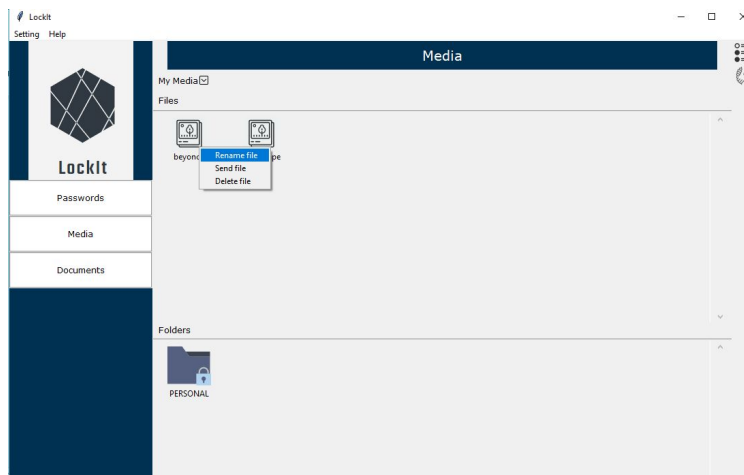


b. Rename Media

This option allows for users to change the name of the document or media in the application database.

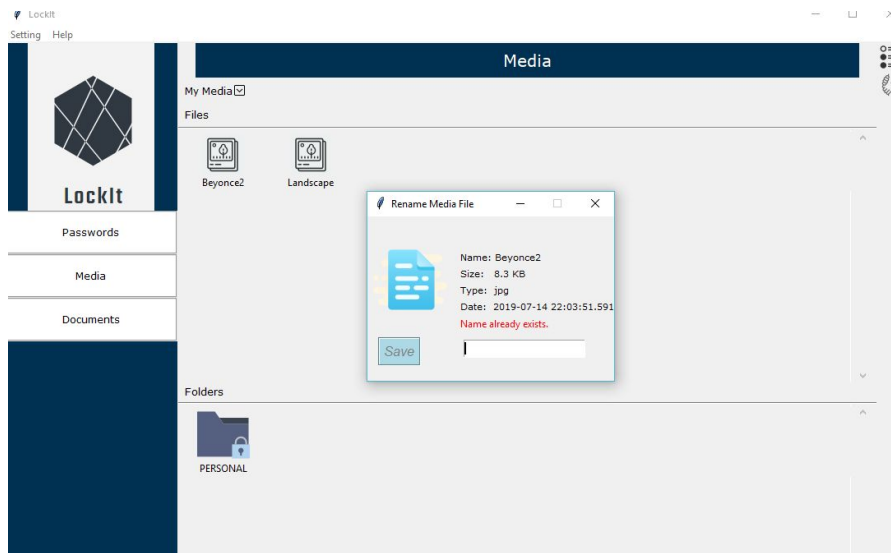
Right click on media file will open a pop-up menu: Rename Media, Send Media, Delete File.

Left click on Rename media will open a pop-up window ***"Rename media"*** where the user can rename the file.

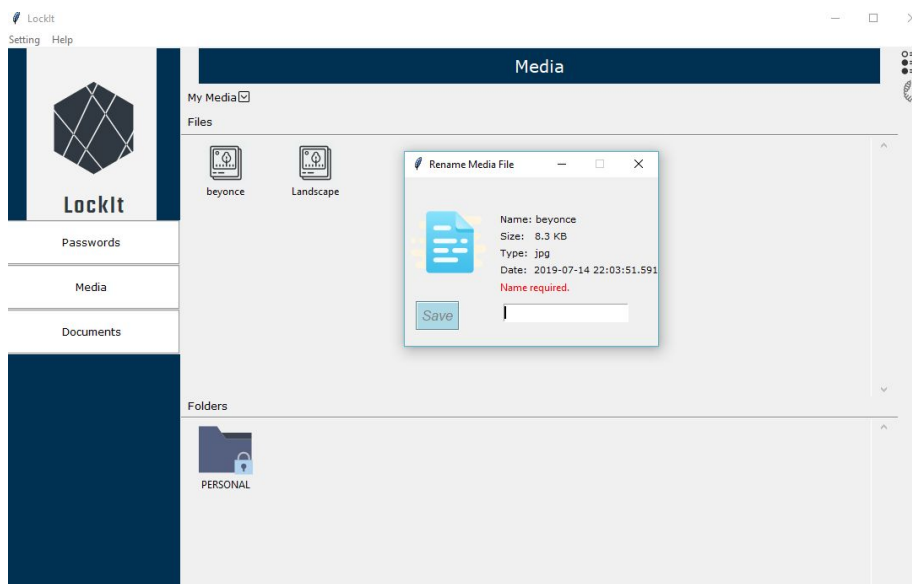


ERRORS

When user attempts to change the name of the file to an already existing name in the database an error stating “**Name already exists**” will appear, prompting the user to enter a name.

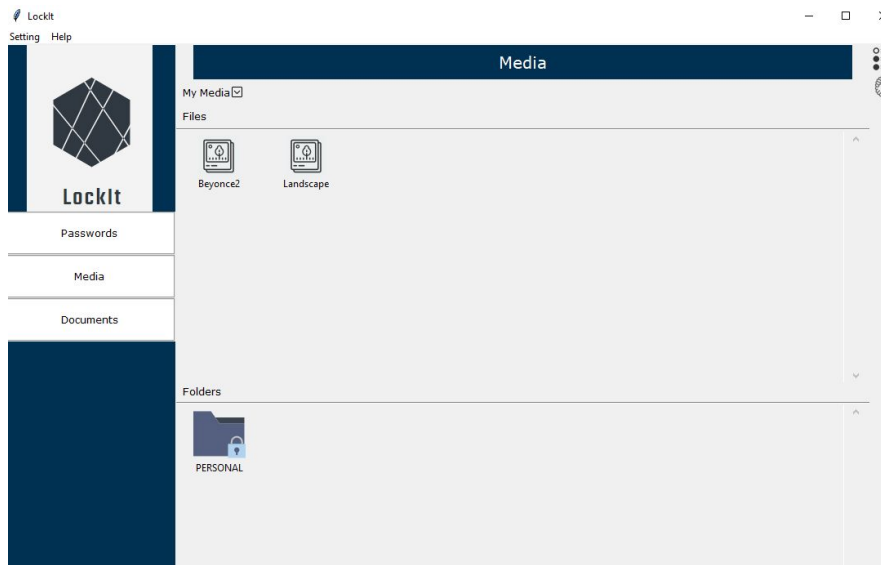
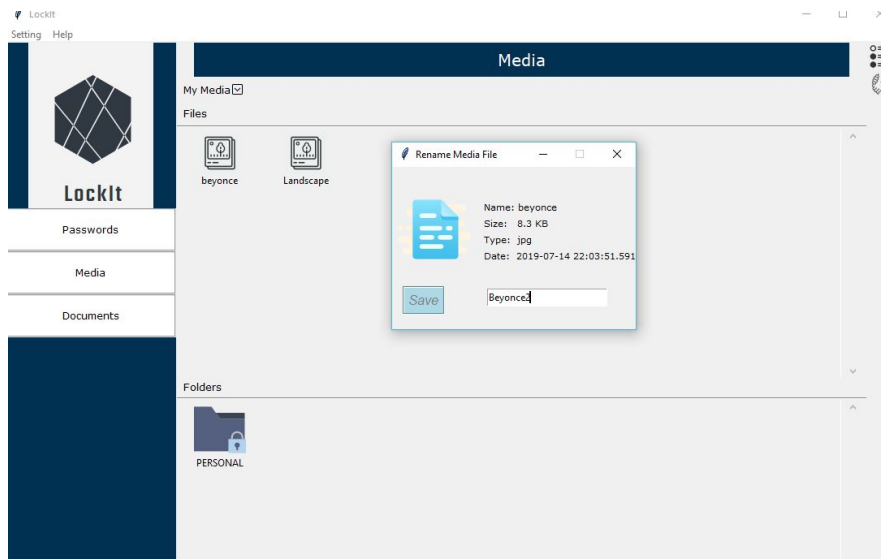


If the name entry is clear and the user clicks save and error stating “**Name required**” will be shown.



END RESULT

Once the name has been accepted, the name is changed in the database and the page is reloaded.

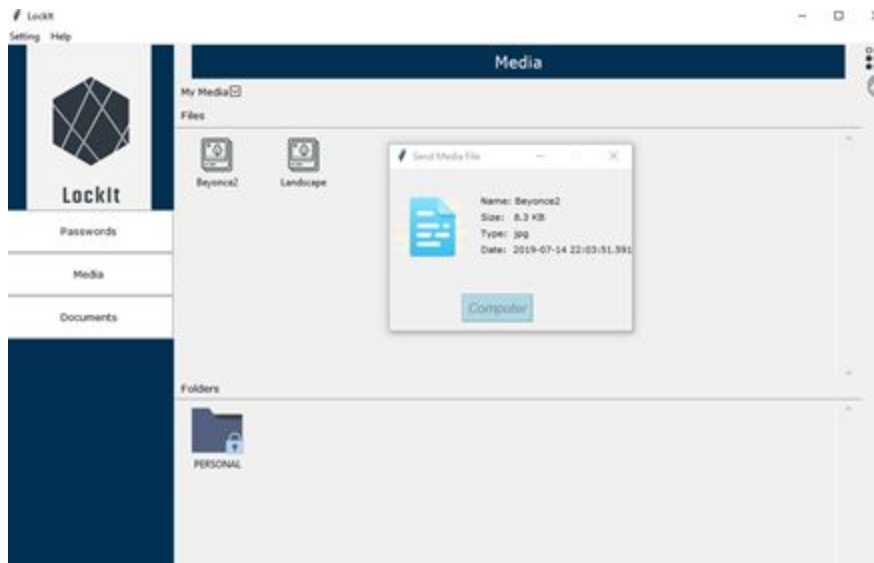
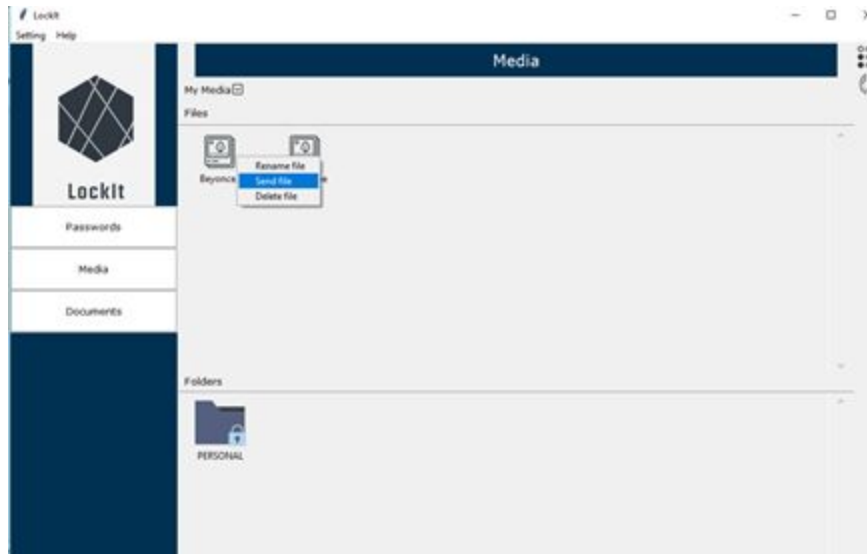


b. Send Media file to PC

This option allows for the user to send media file from the application to the local computer. The application shows a window with the file's information and a ***“Computer”*** button that prompts the user to send/transfer the file to the local computer.

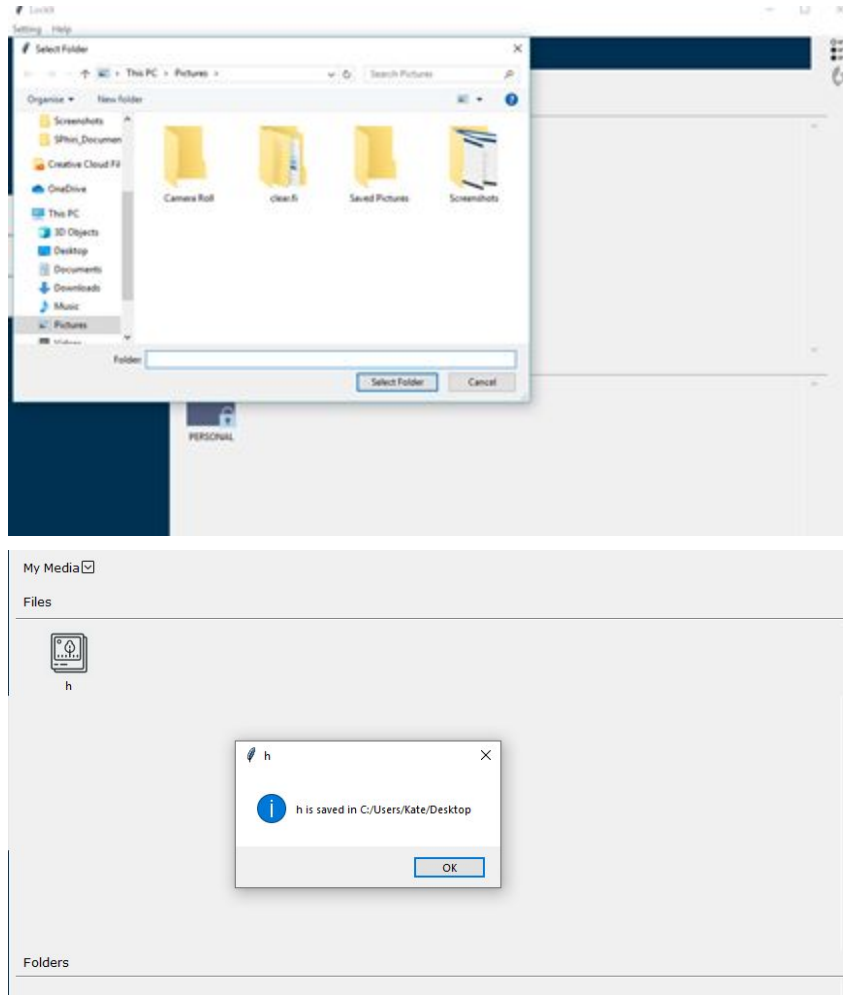
Right click on media file will open a pop-up menu: Rename Media, Send Media, Delete File.

Left click on Send media will open a pop-up window ***“Send media”*** where the user can select a location on local computer where to store the file.



END RESULT

The application prompts a file explorer window allowing the user to choose which file in which to save the file, and once saved a message is shown to the user confirming the transfer of the file.



d. Delete file

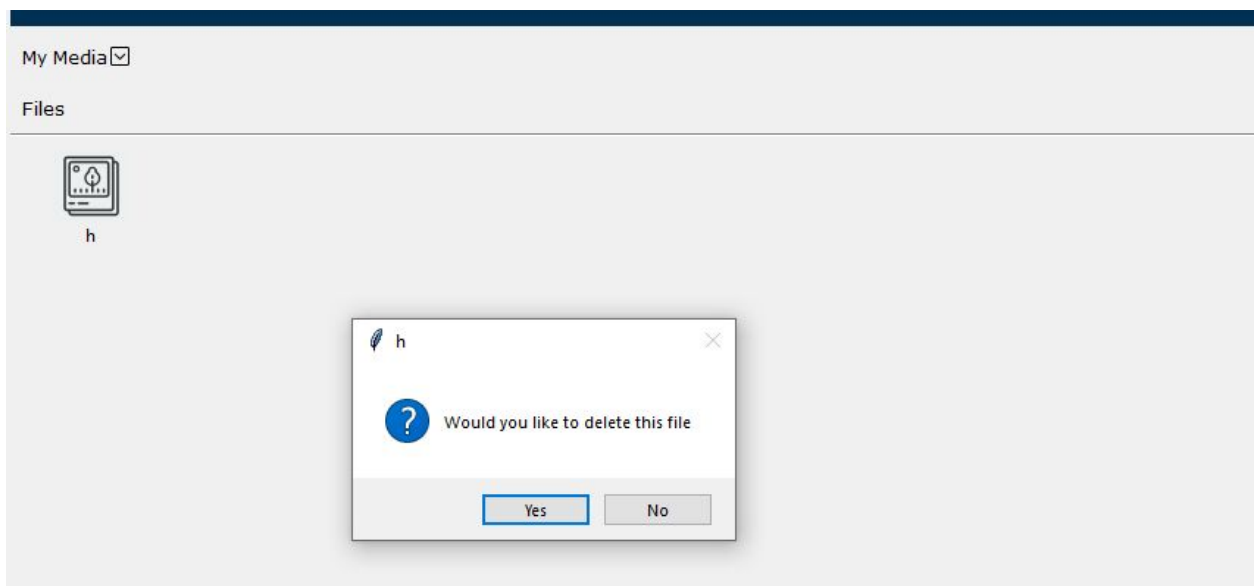
This option allows for the user to delete media file permanently from the application's database.

Right click on media file will open a pop-up menu: Rename Media, Send Media, Delete File.

Left click on Delete file will open a pop-up window "**Delete Media**" where the user can select 'Yes'/'No' to confirm the file deletion.

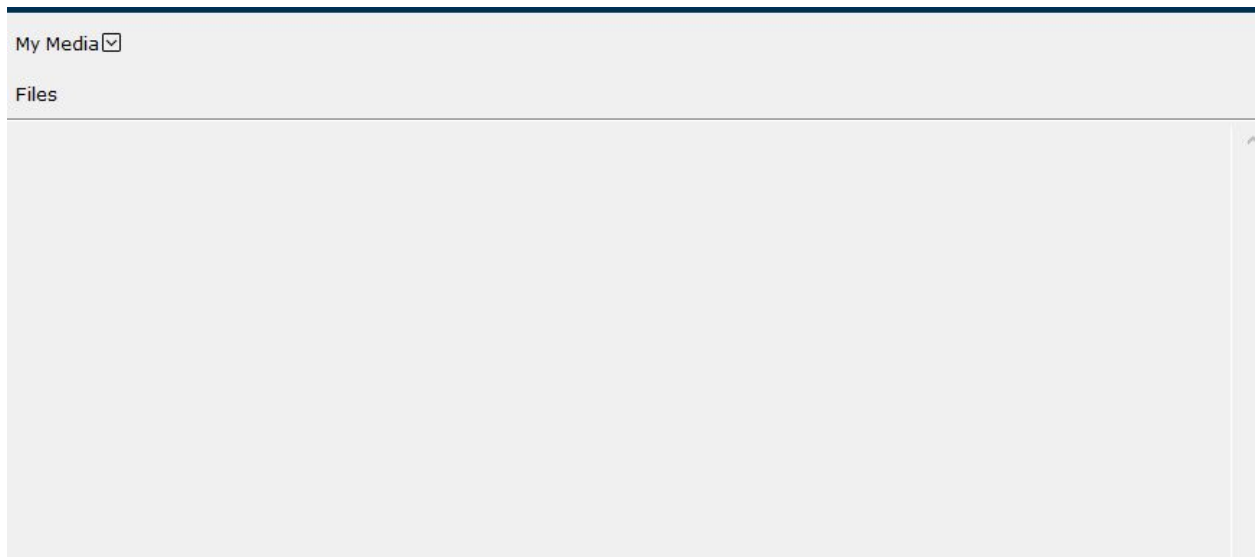


Upon selecting the delete button a pop-up asks for confirmation as to whether the user is sure of the action.



END RESULT

If the user selects yes, the file is removed from the database and the page is reloaded without the deleted file.

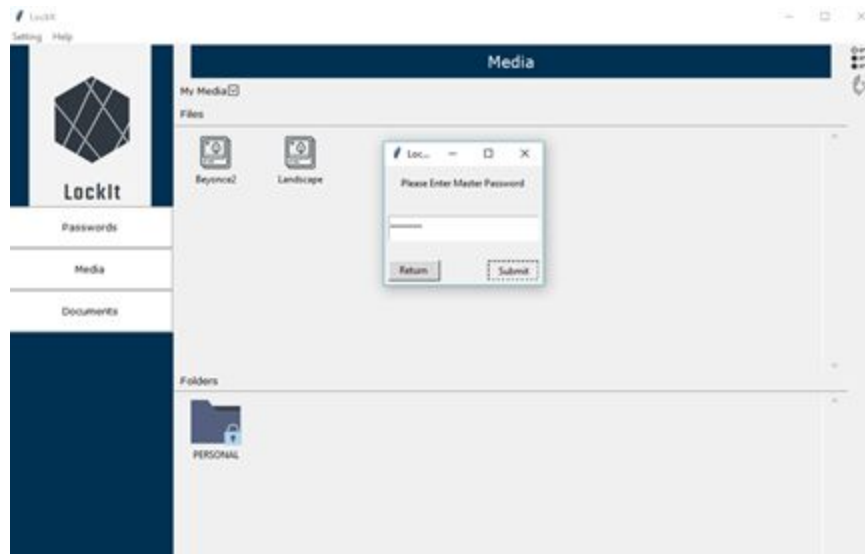


e.View Media File

This option allows for the user to view the media file.

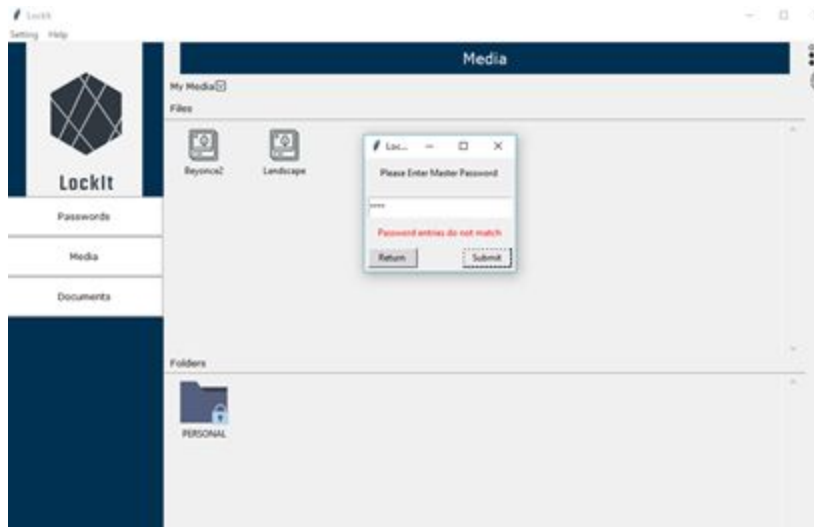
Double left click on file - opens the file on the computer default viewer.

If user has switched on the option of needing a master password to view an image file, a pop-up prompts the user to insert their master password before viewing the file, and only if the password is correct can the file be viewed.



ERRORS

However, if the passwords do not match an error stating “*Passwords do not match*” is shown.



If user has switched off the need to insert a master password before viewing a file, the window for the document or media is immediately opened.

Media Folders

The user is able to create folders where the media files can be stored as well. The user is allowed to add, edit and delete folders. The page is divided into two parts, one for media files and the other for folders.

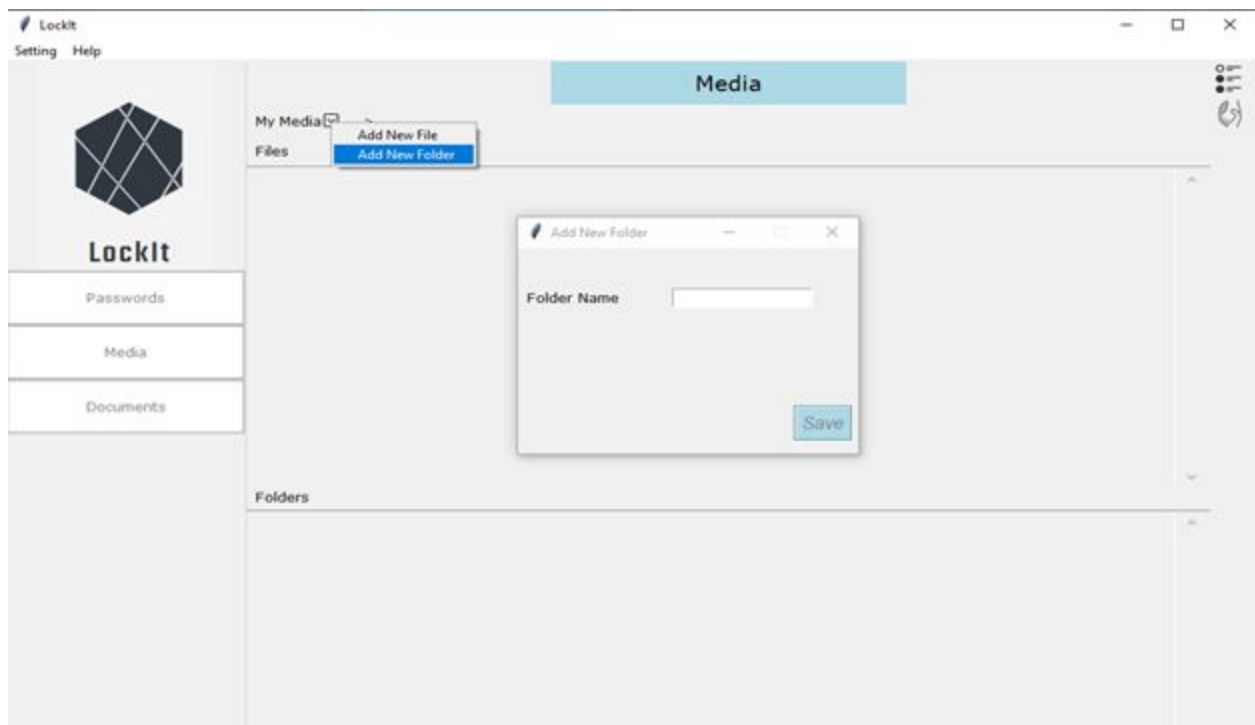
- My Media – opens a dropdown list to add new file or folder

Features:

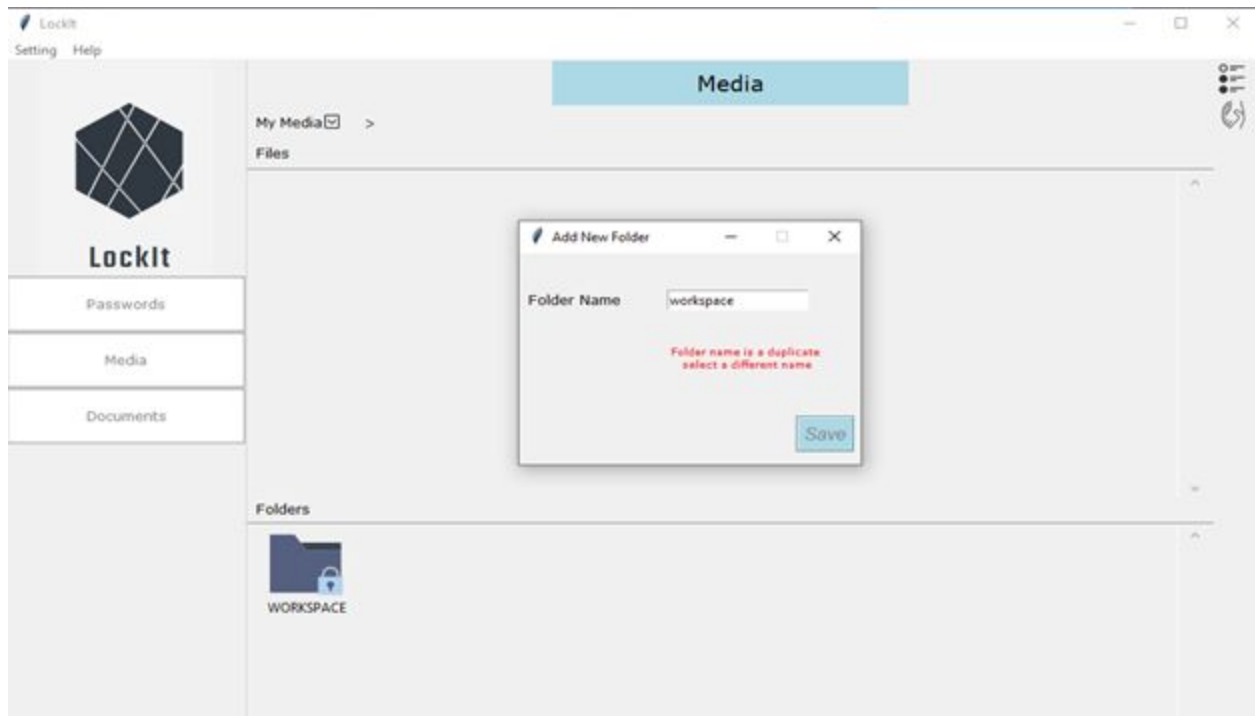
- **Single click** on “**Add New Folder**” will open pop-up window to add new folder
- **Right click** on folder will open a pop-up menu:
 - Rename folder
 - Delete folder

1.) **Add folder** - If user would like to add a folder selecting ‘Add New Folder’ from drop down menu would open a pop-up window to enter new name and save.

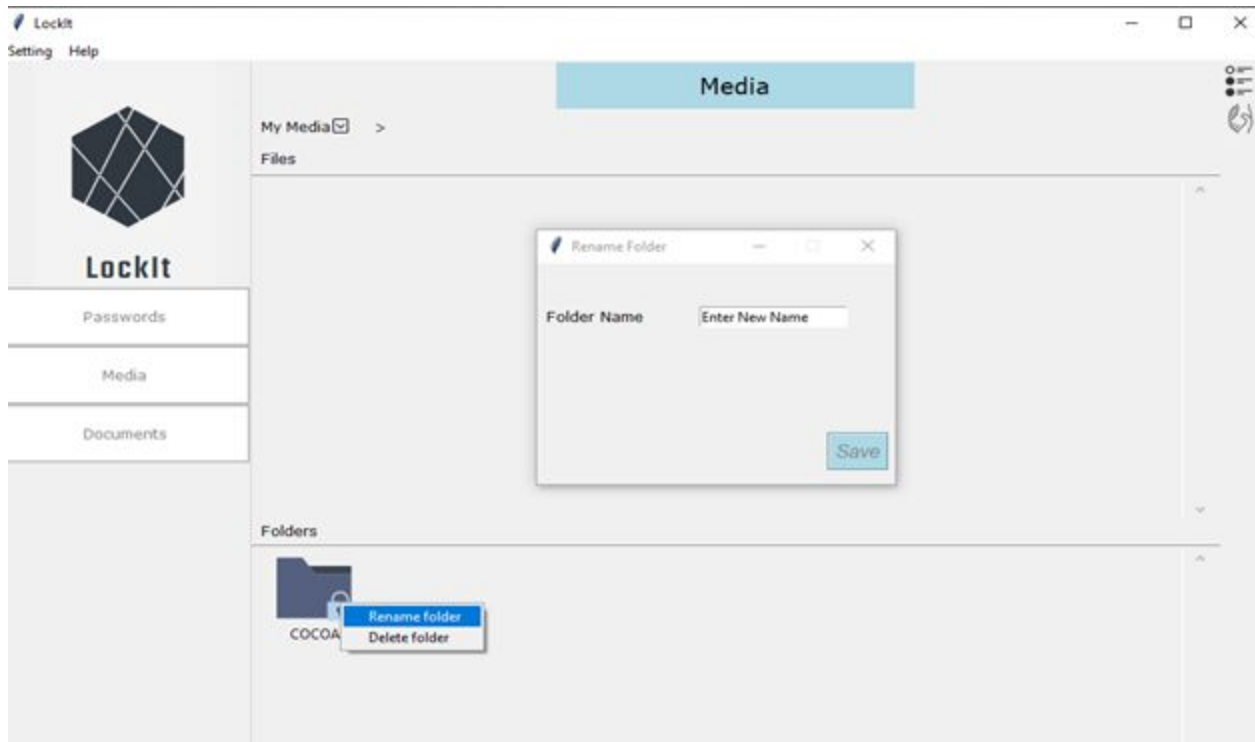
- Folder name – name of the new folder to be created
- Save – button to save the new folder



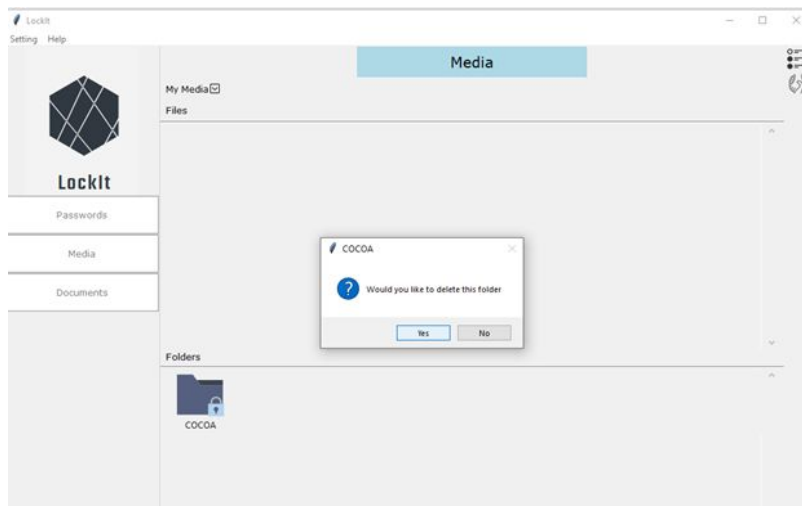
- Duplicate error – If there already exist a folder with the same name, it will display an error message, asking user to change the name.

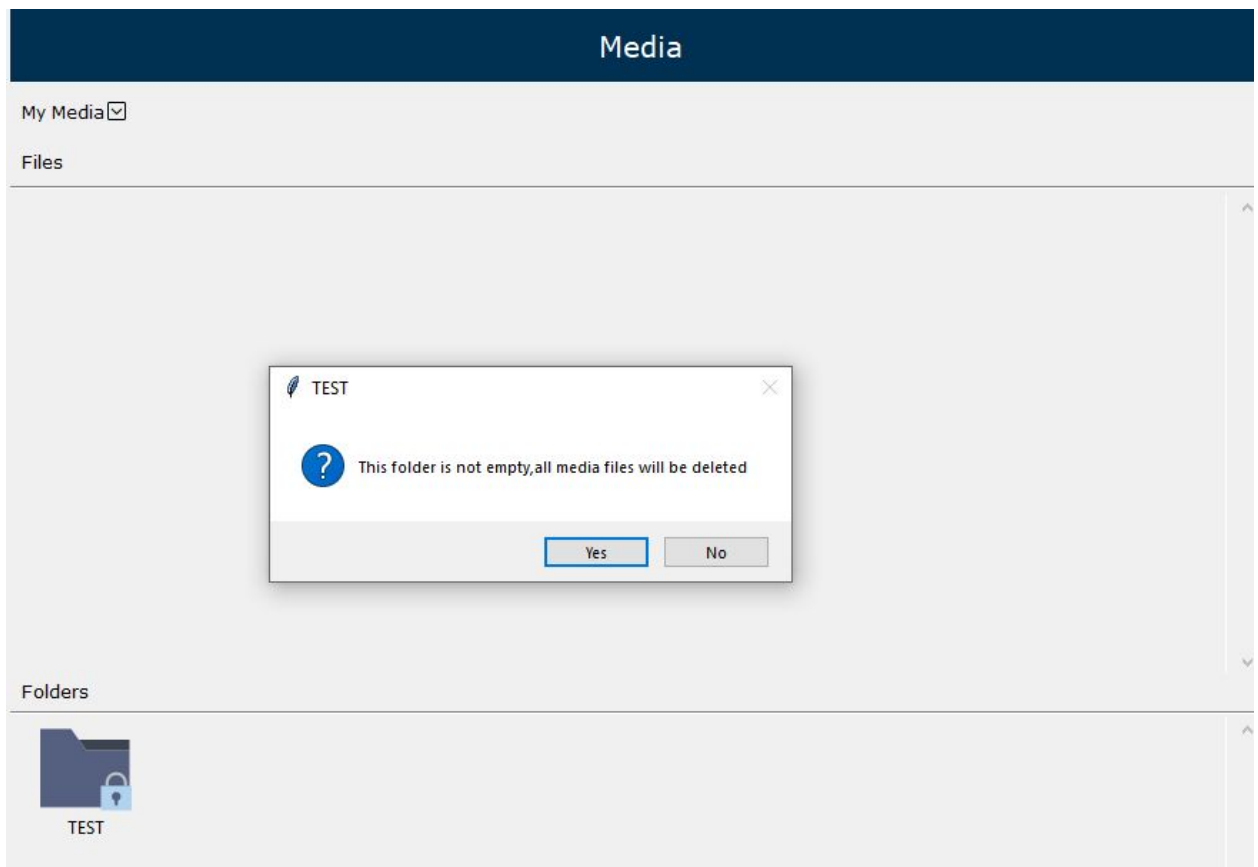


- 2) Rename folder – If user would like to rename the folder then selecting rename folder from drop down menu would open a pop-up window to enter new name.



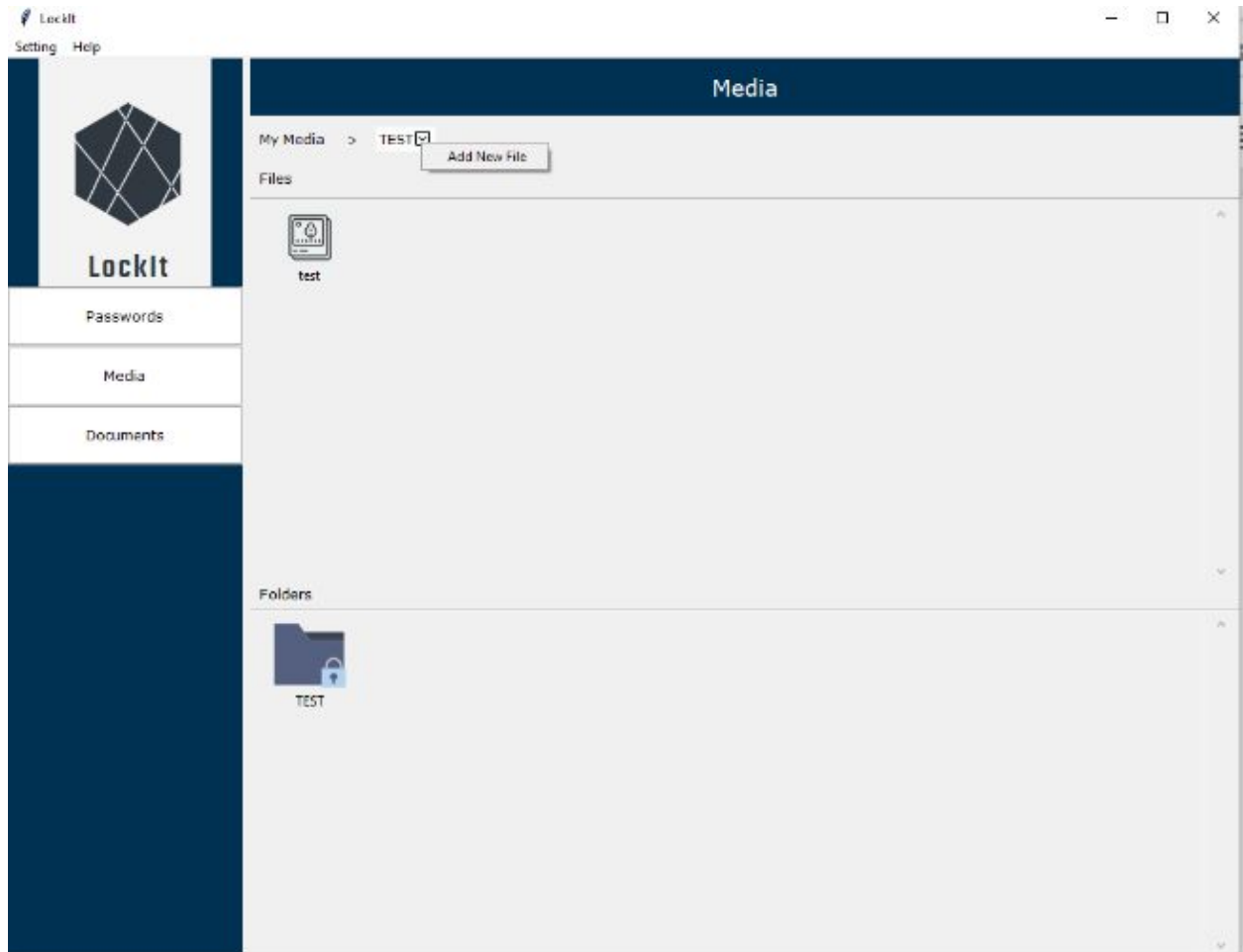
- 3) Delete folder - If user would like to delete the folder then selecting delete folder from drop down menu, that would open a pop-up window asking confirmation from user for deletion. If user selects 'yes' button the folder will be deleted. If the folder has media files another pop-up window will be displayed informing the user that the media files inside the folder will be deleted. If user selects 'no' the pop-up window will be closed.



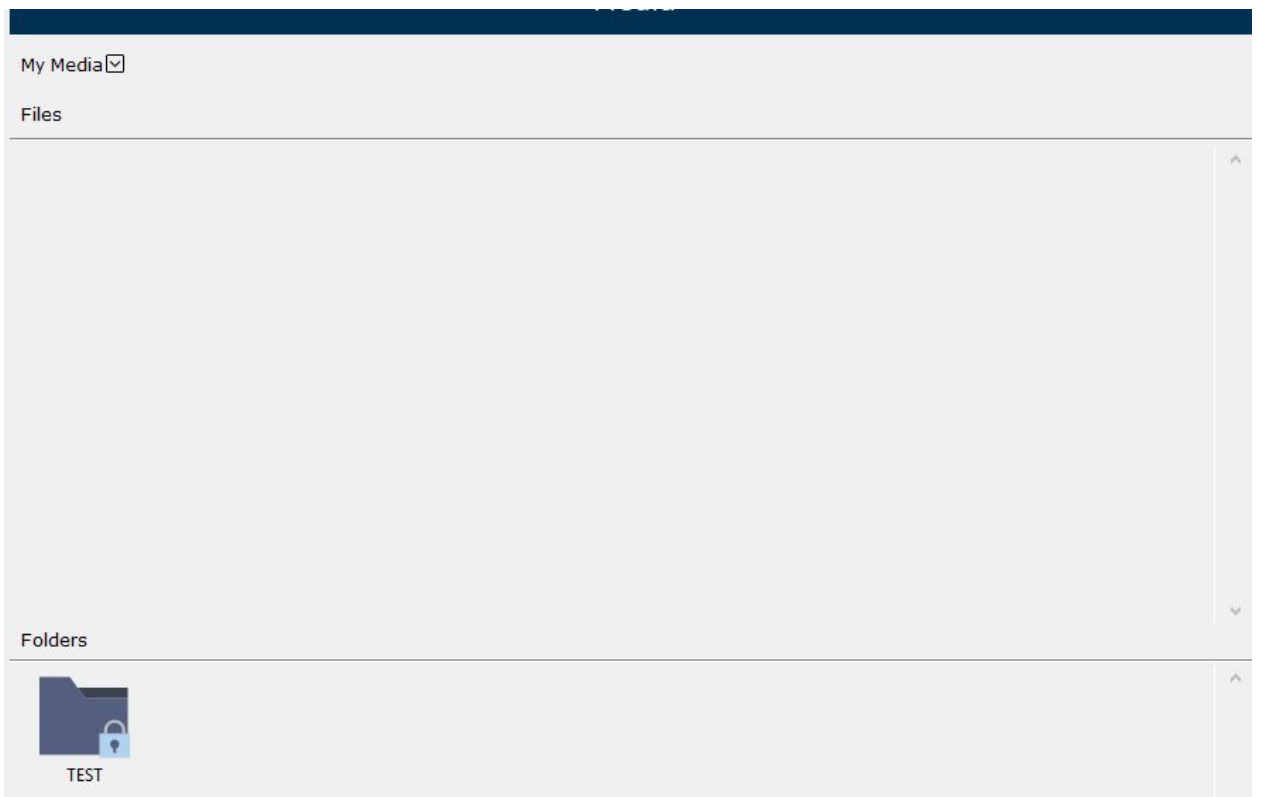


4) View Folder - if the user wants to view the contents of the folder or to add files to it the user should **left double click** the folder.

- The Media navigation will show the user its location. The user can click on the name of the folder in the navigation bar which will show a menu option to add new file.




- To go back to the default folder 'My Media', left click on 'My Media'




Media

My Media > TEST ☒

Files


test

Folders

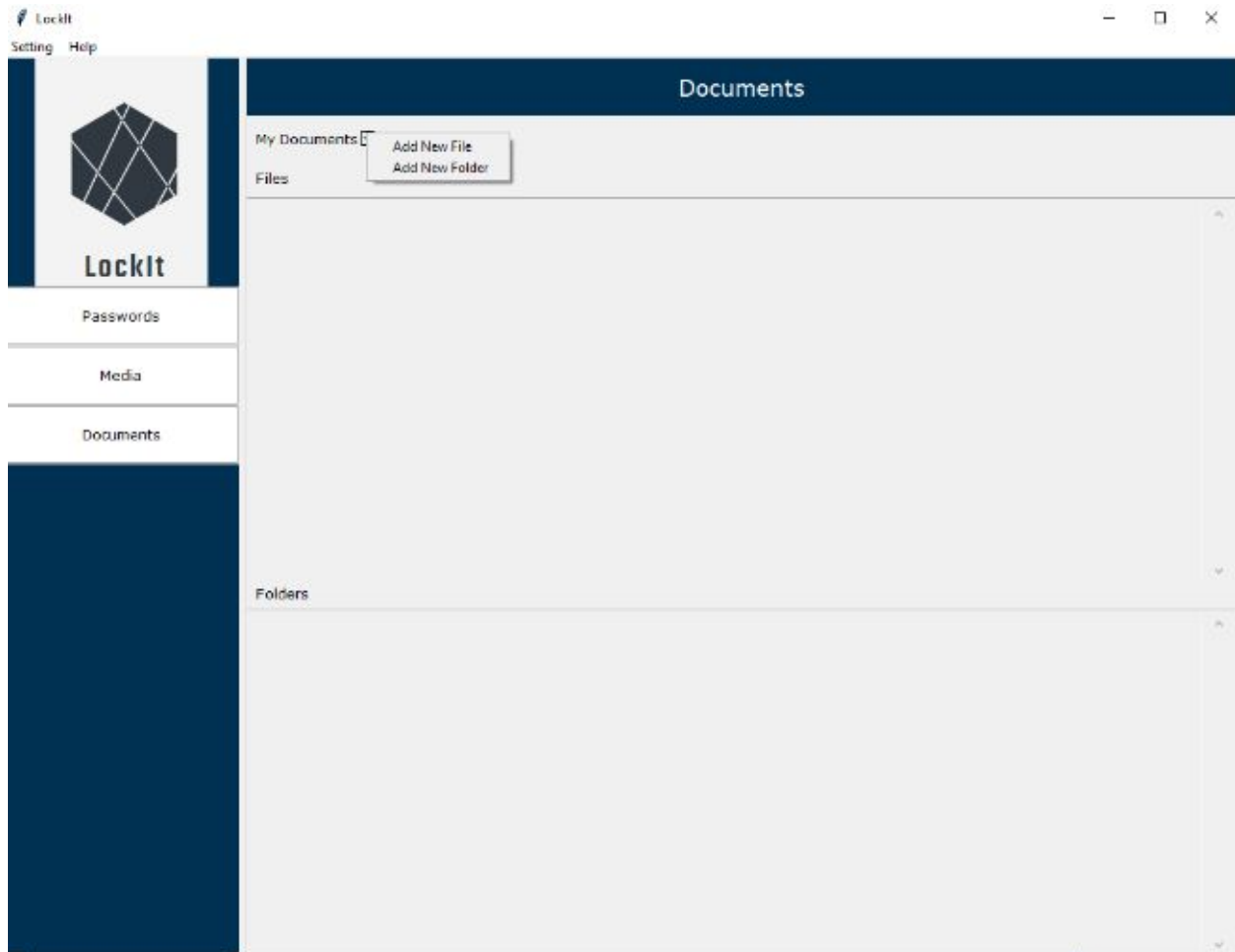

TEST

5. Document Tab

Document tab is used by the user to store document files of type .txt,.pdf,.xls,.doc. The user has the option to create folders and store the document files in the folders as well.

My Document drop down menu

- Add new File – adds new file to database
- Add new Folder – adds new folder to database



a. Add New Document file

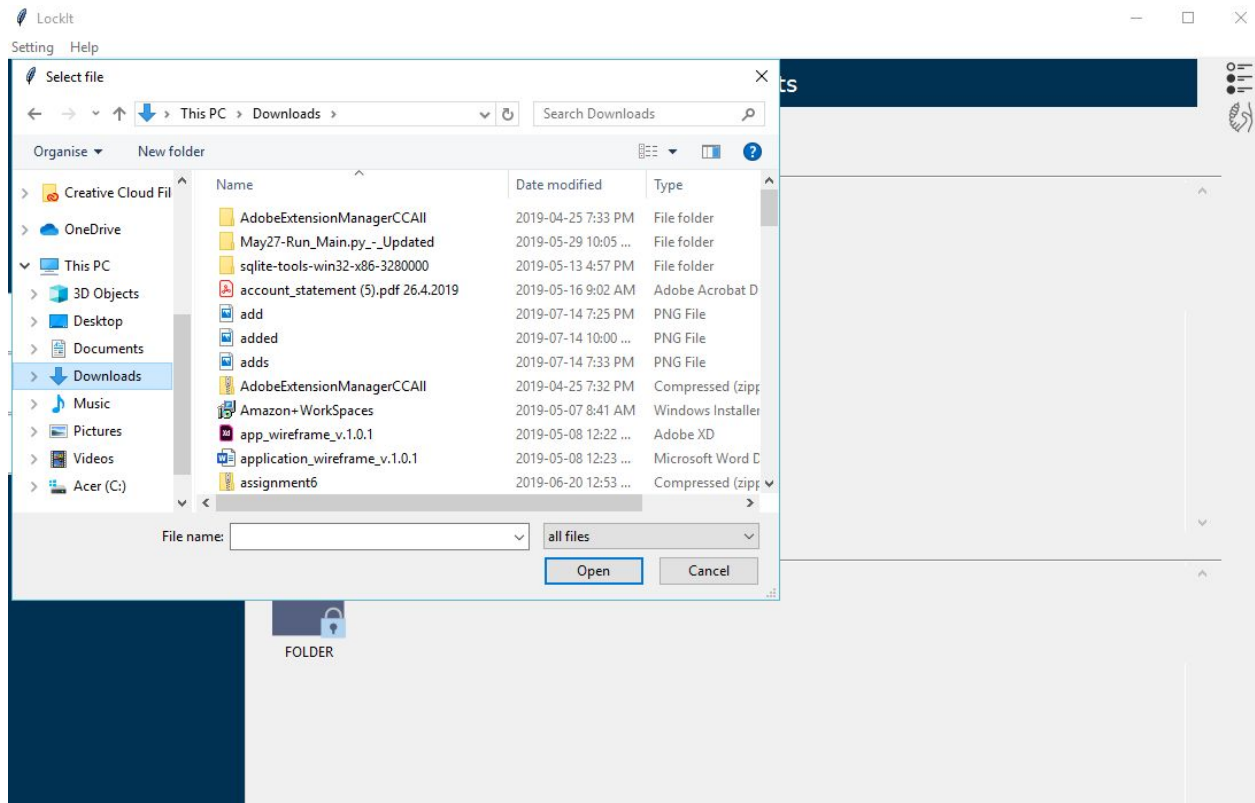
The add new file option opens allows for the user to add a new and encrypted file onto the application's database.

The features of this option are:

- Browse from computer button.
- File explorer
- Save as textbox.

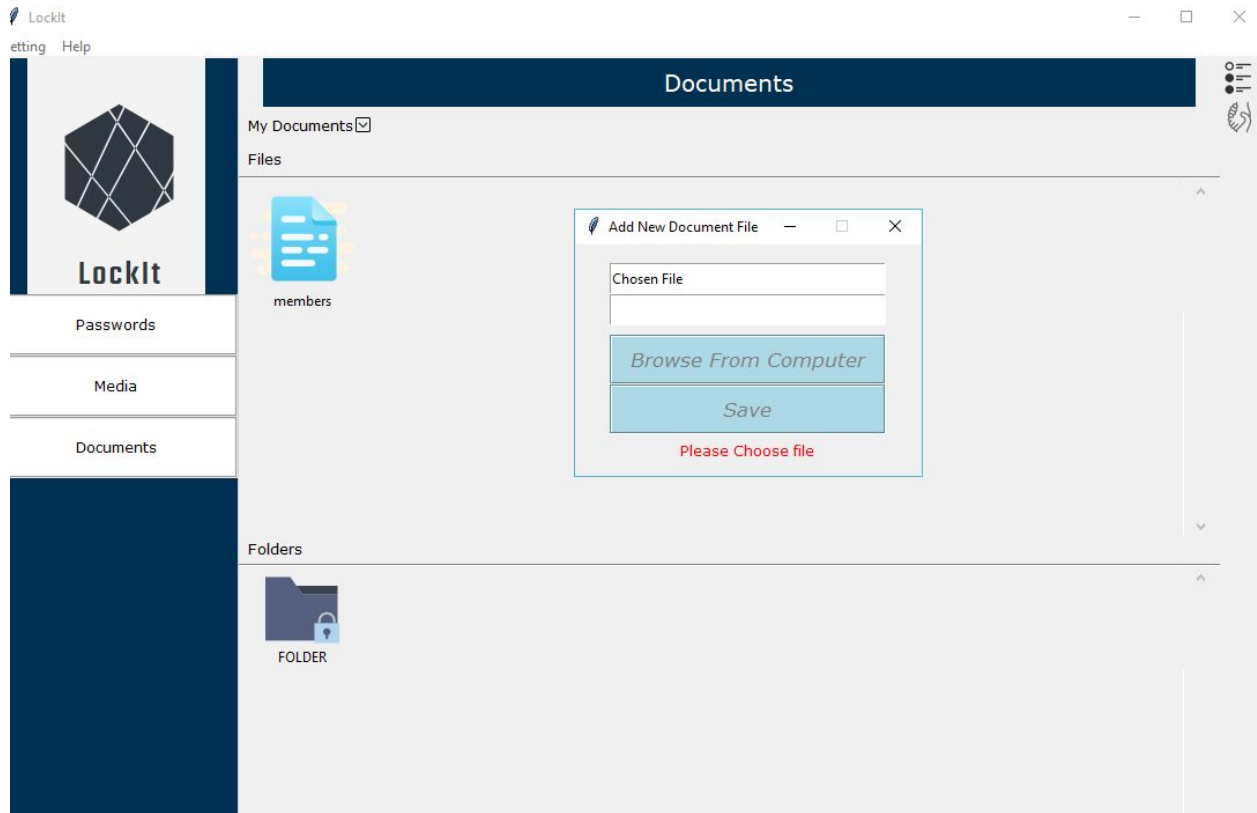
- Save button.

When user clicks Browse from computer a file explorer opens on the local computer to choose a file to save.

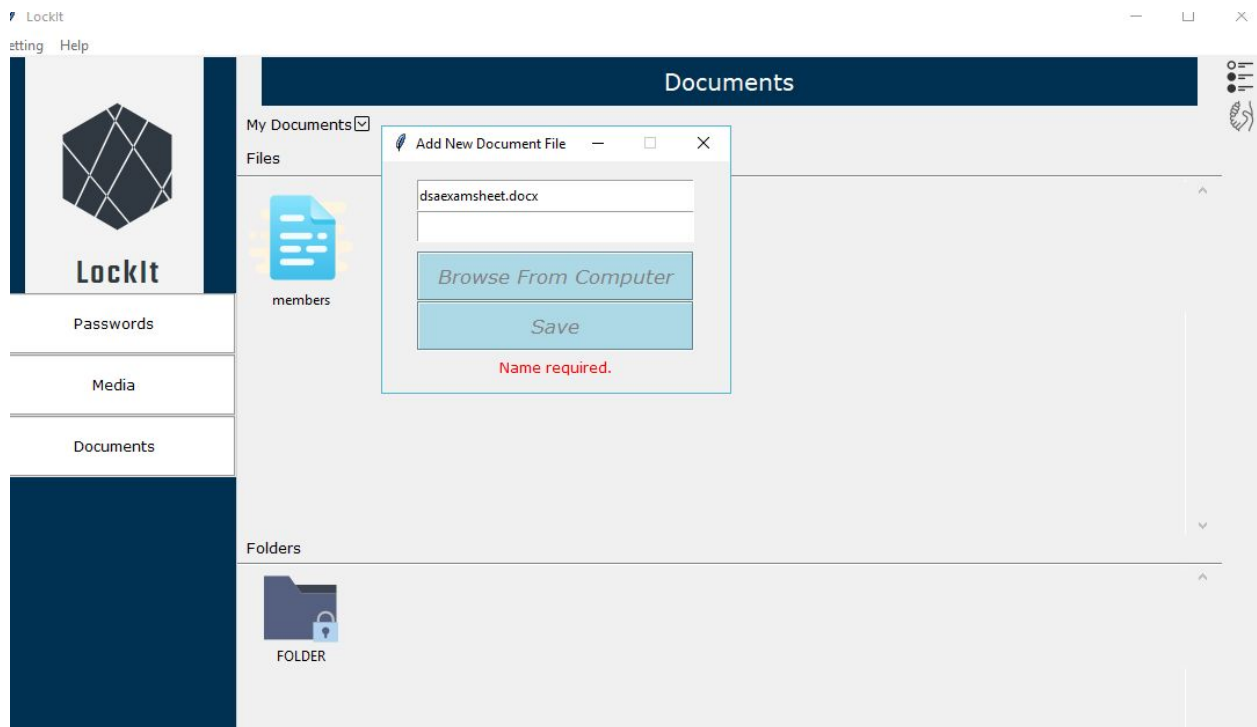


ERRORS

If user clicks cancel and attempts to save without choosing a file an error will show at the bottom of the window to ***"Please choose file"***.

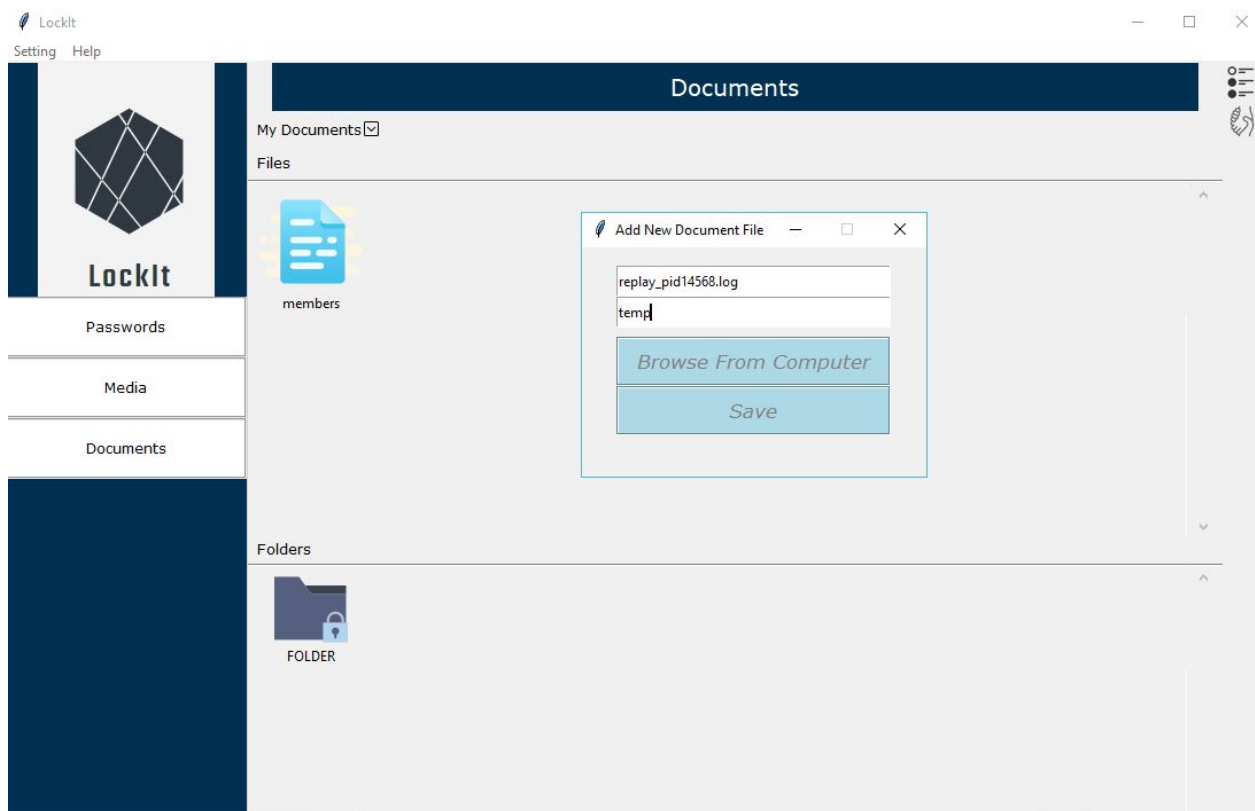


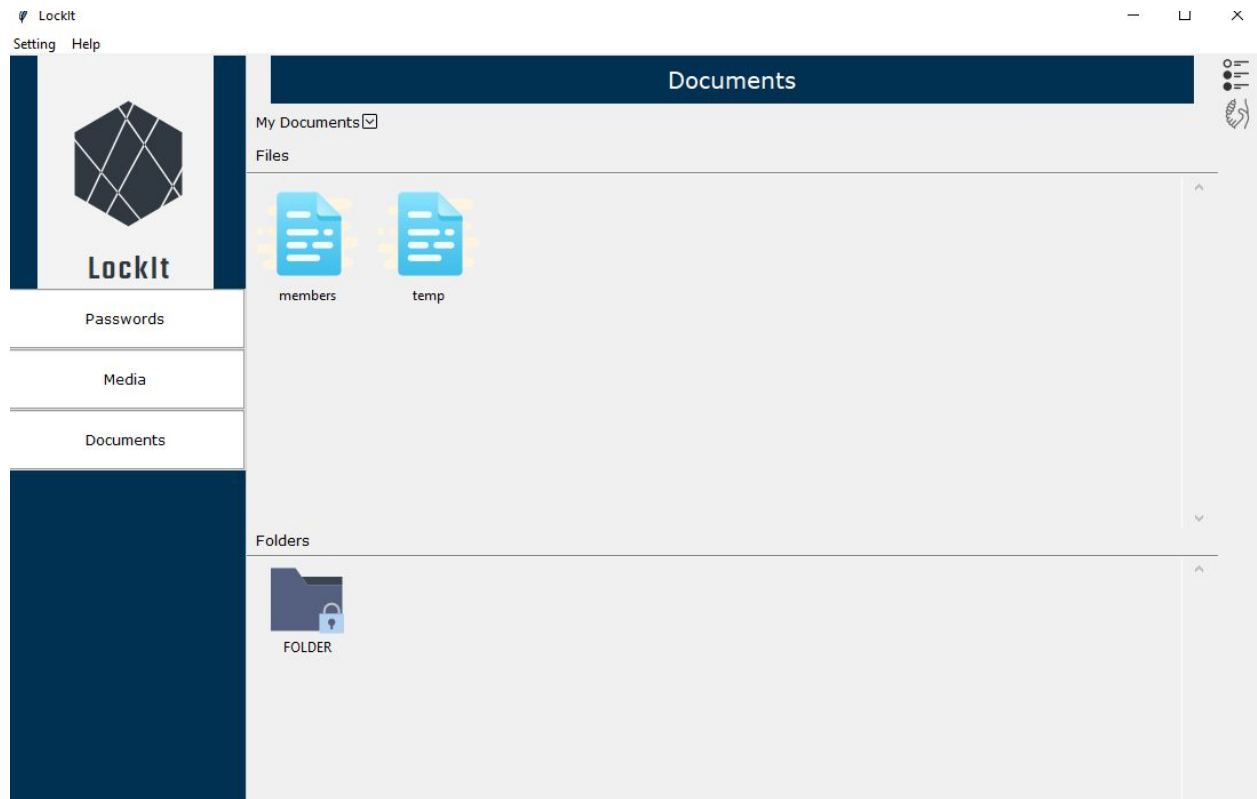
If the name entry is clear and the user clicks save and error stating “**Name required**” will be shown.



END RESULT

Once the name has been accepted, document is added in the database and the page is reloaded.





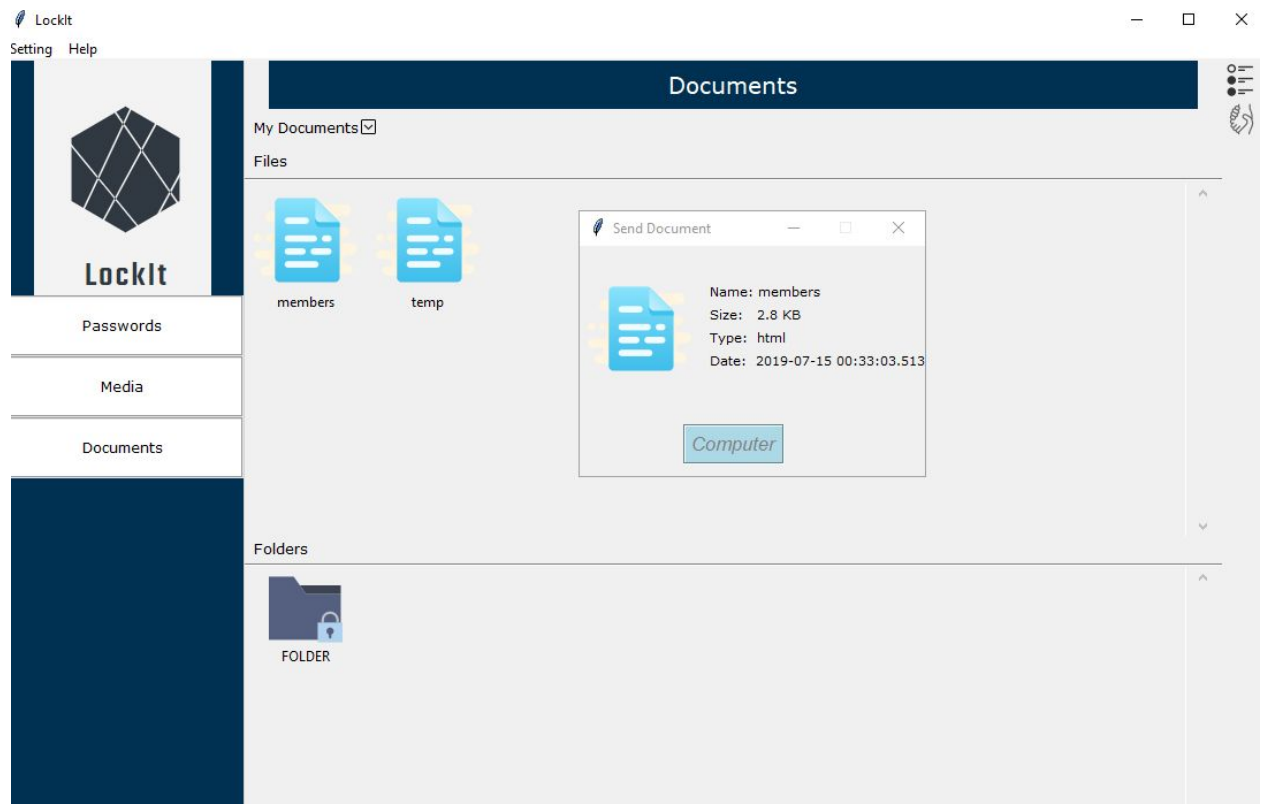
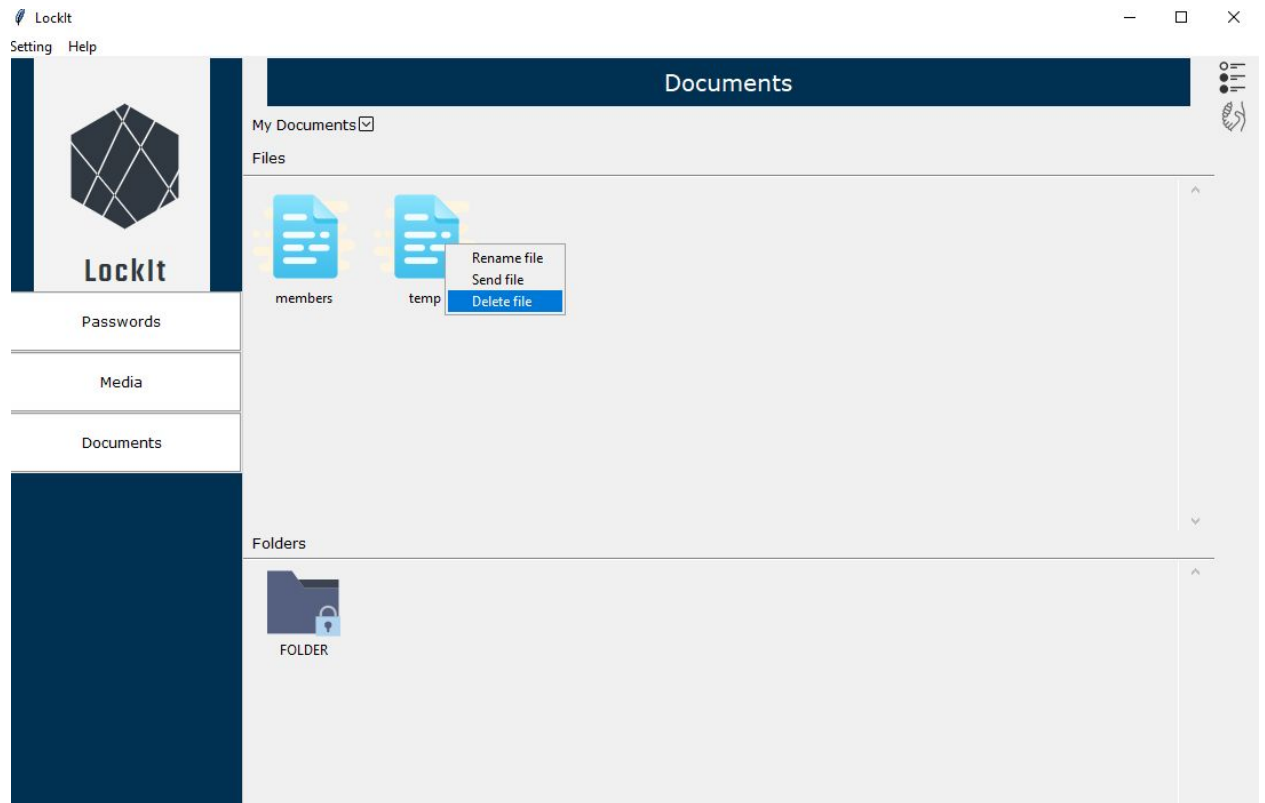
c. Send Document file to PC

This option allows for the user to send document file from the application to the local computer.

The application shows a window with the file's information and a ***“Computer”*** button that prompts the user to send/transfer the file to the local computer.

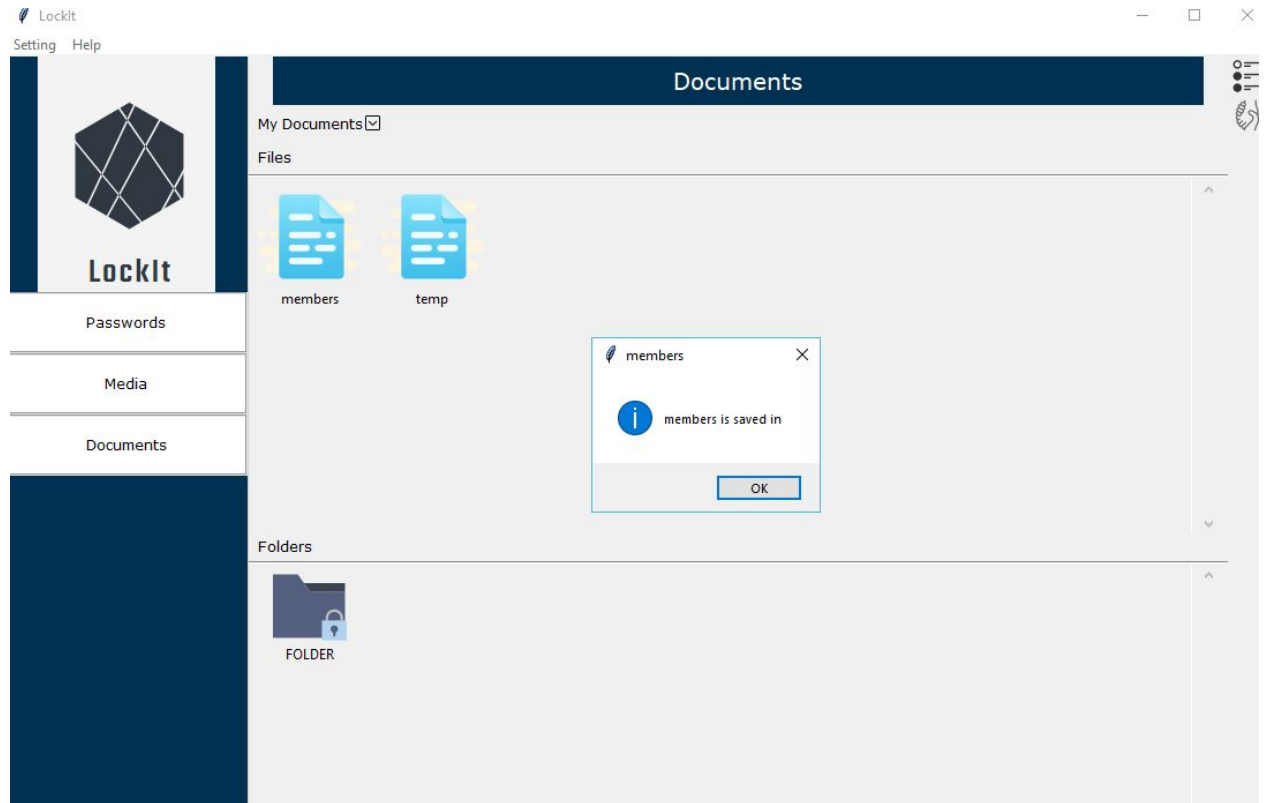
Right click on document file will open a pop-up menu: Rename Document, Send Document, Delete File.

Left click on Send document will open a pop-up window ***“Send document”*** where the user can select a location on local computer where to store the file.



END RESULT

The application prompts a file explorer window allowing the user to choose which file in which to save the file, and once saved a message is shown to the user confirming the transfer of the file.

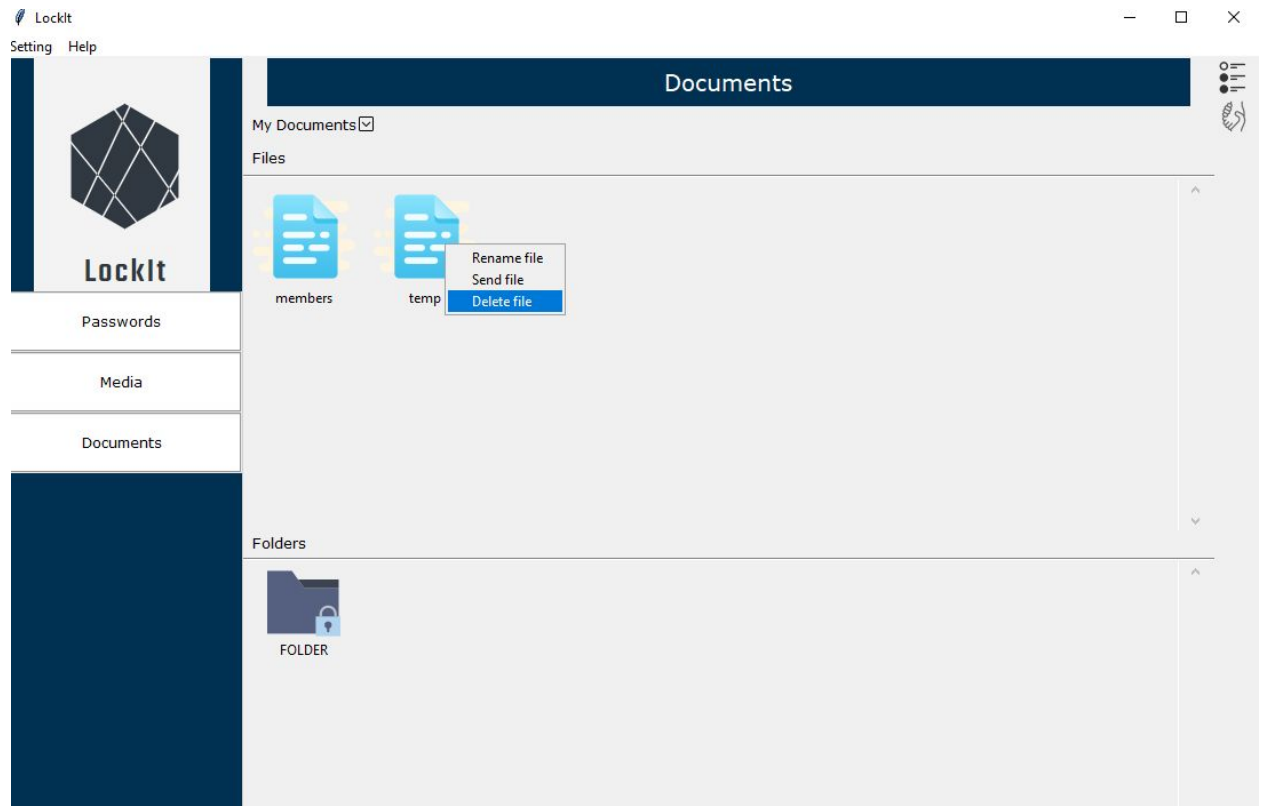


d. Delete file

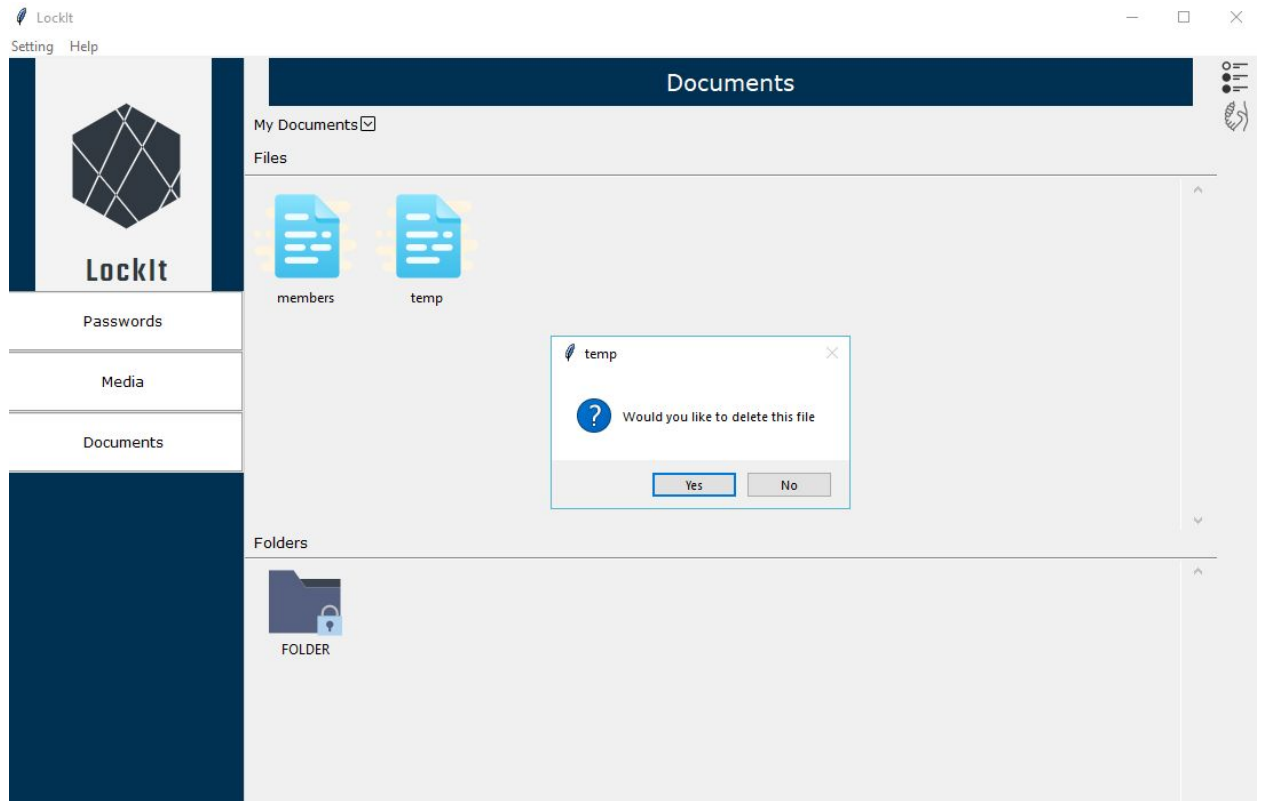
This option allows for the user to delete document file permanently from the application's database.

Right click on document file will open a pop-up menu: Rename Document, Send Document, Delete File.

Left click on Delete file will open a pop-up window **"Delete Document"** where the user can select **'Yes'/'No'** to confirm the file deletion.

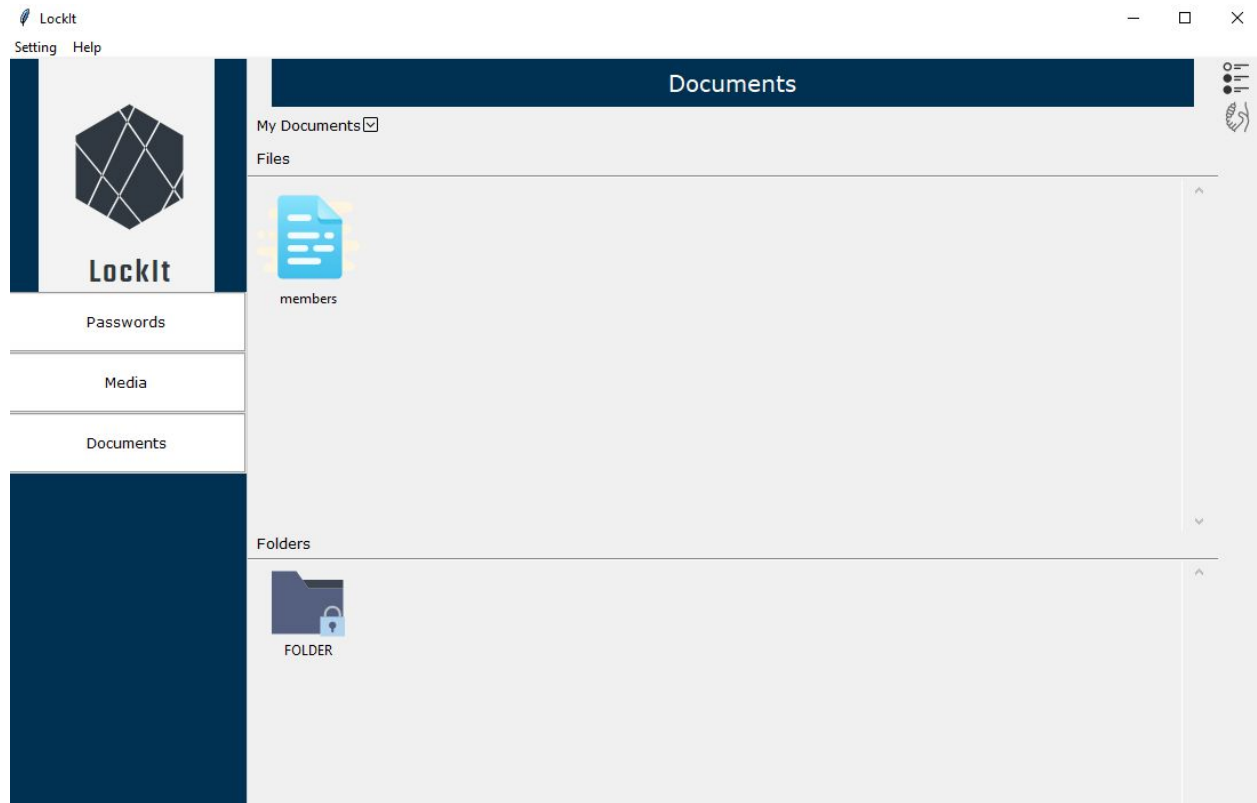


Upon selecting the delete button a pop-up asks for confirmation as to whether the user is sure of the action.



END RESULT

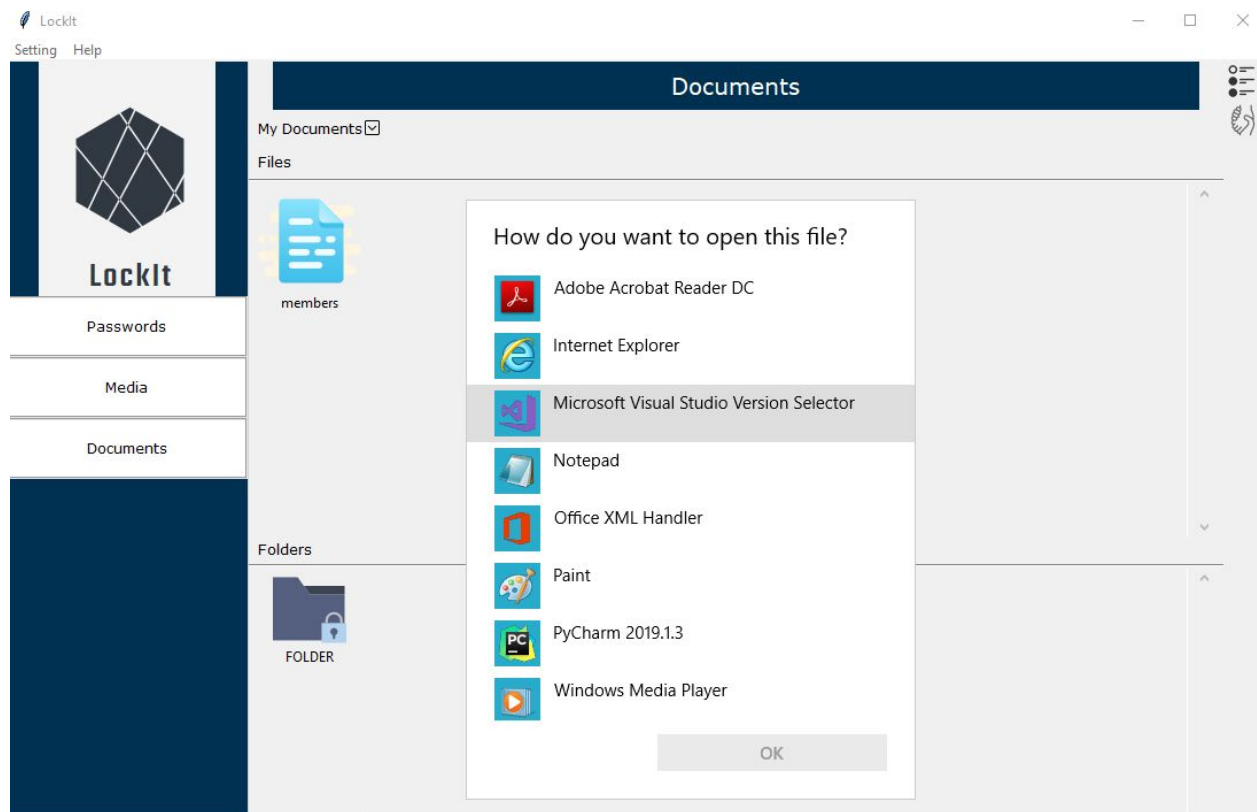
If the user selects yes, the file is removed from the database and the page is reloaded without the deleted file.



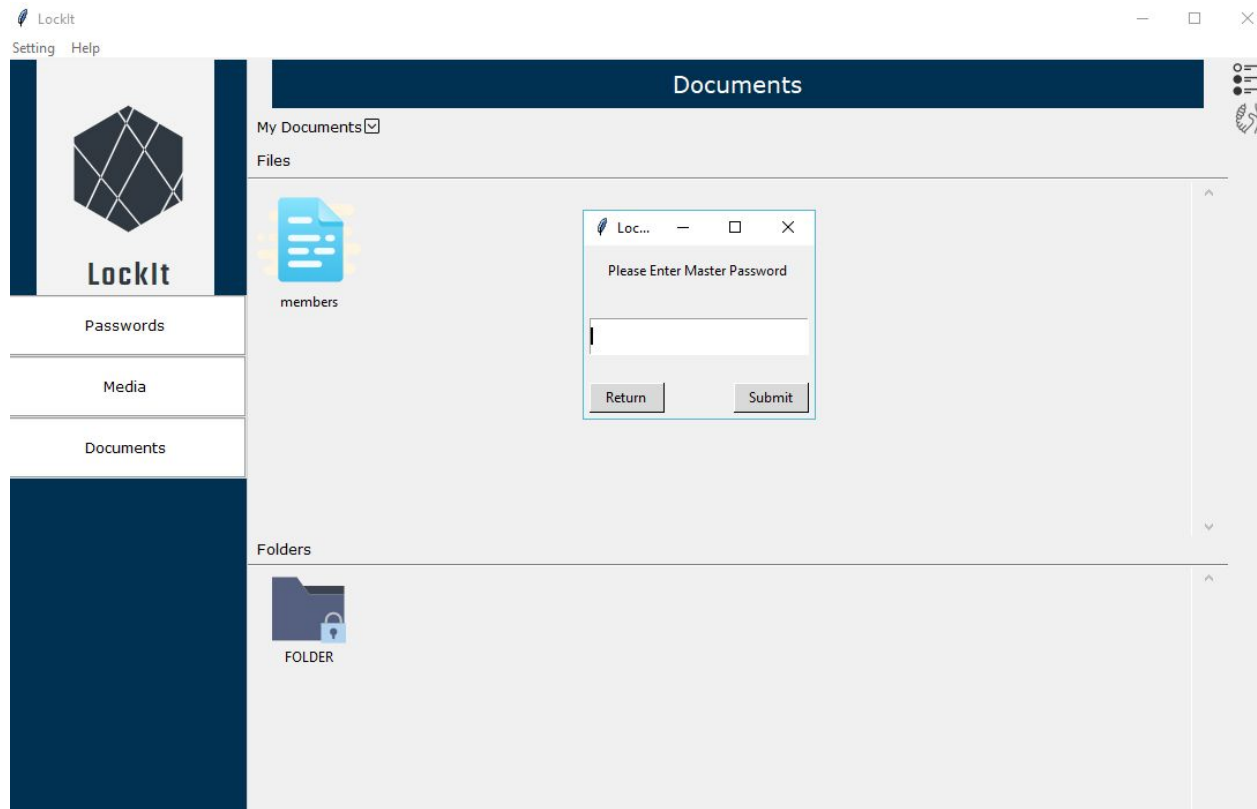
e.View Document File

This option allows for the user to view the document file.

Double left click on file - a pop-up prompts the user to select an application best compatible to open the chosen document.

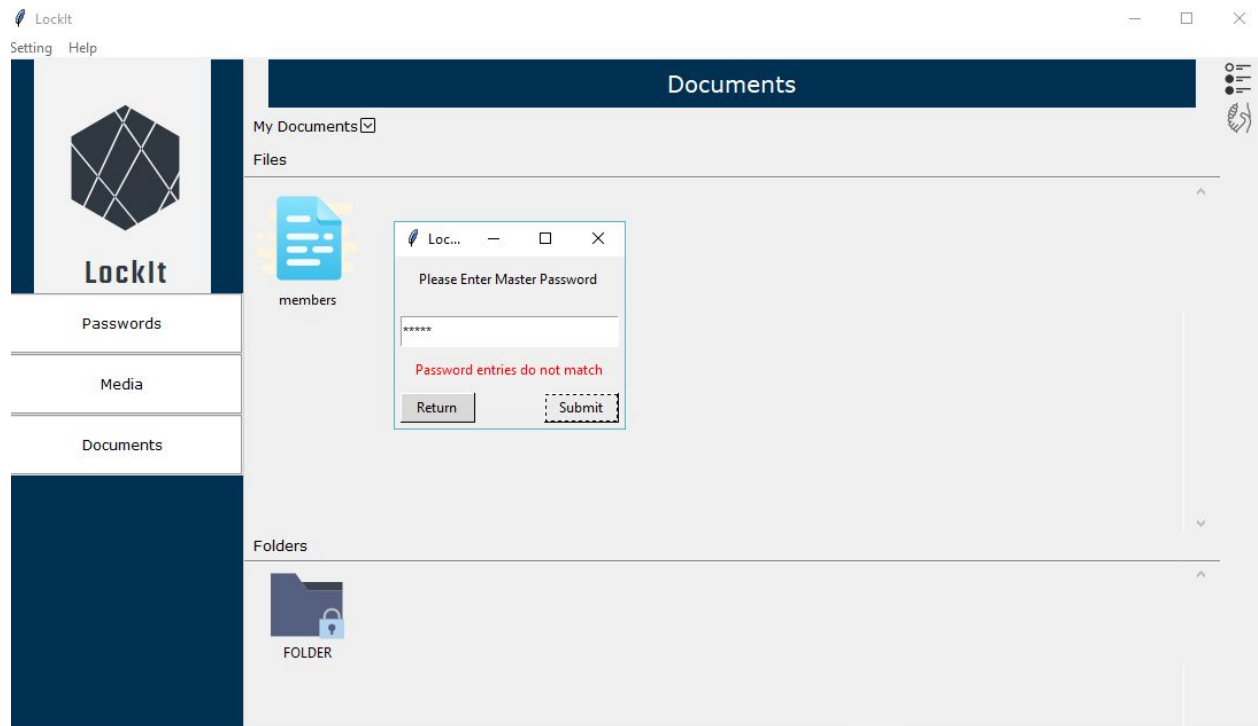


If user has switched on the option of needing a master password to view a document file, a pop-up prompts the user to insert their master password before viewing the file, and only if the password is correct can the file be viewed.



ERRORS

However, if the passwords do not match an error stating “*Passwords do not match*” is shown.



If user has switched off the need to insert a master password before viewing a file, the window for the document is immediately opened.

Document Folders

The user is able to create folders where the document files can be stored as well. The user is allowed to add, edit and delete folders. The page is divided into two parts, one for document files and the other for folders.

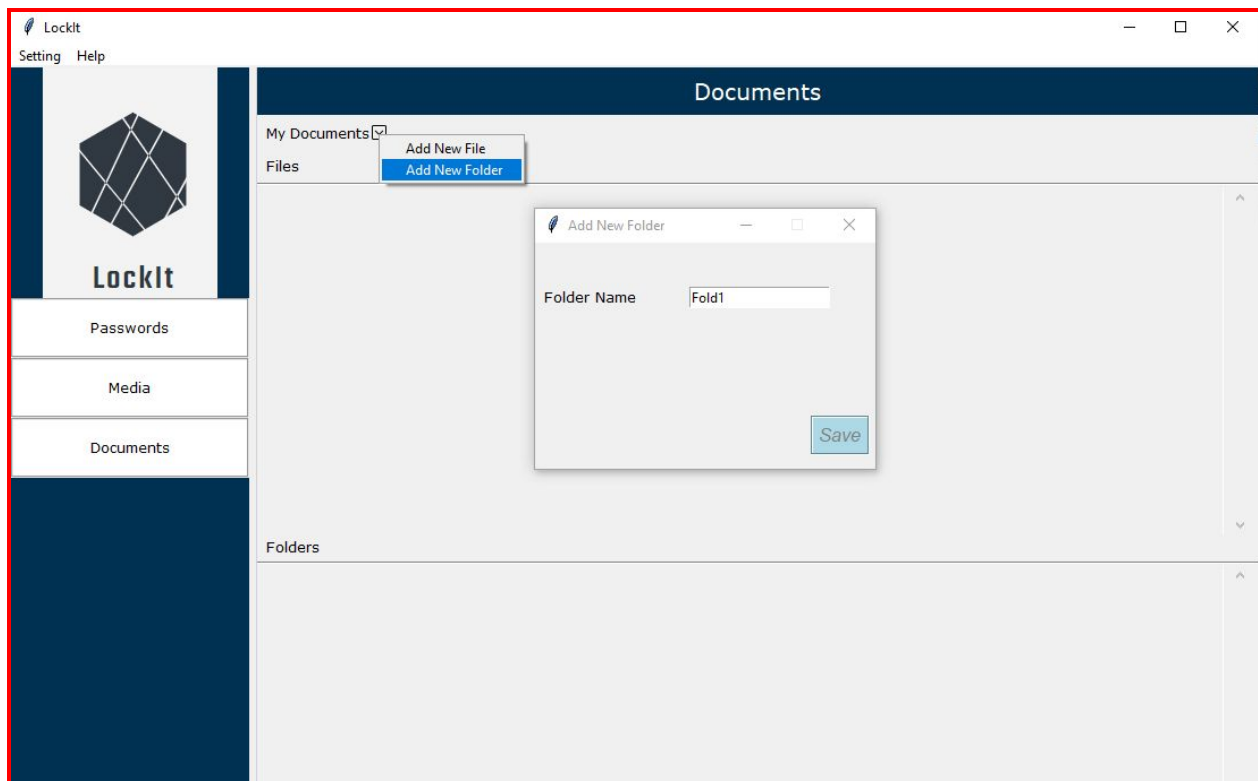
- My Documents – opens a dropdown list to add new file or folder

Features:

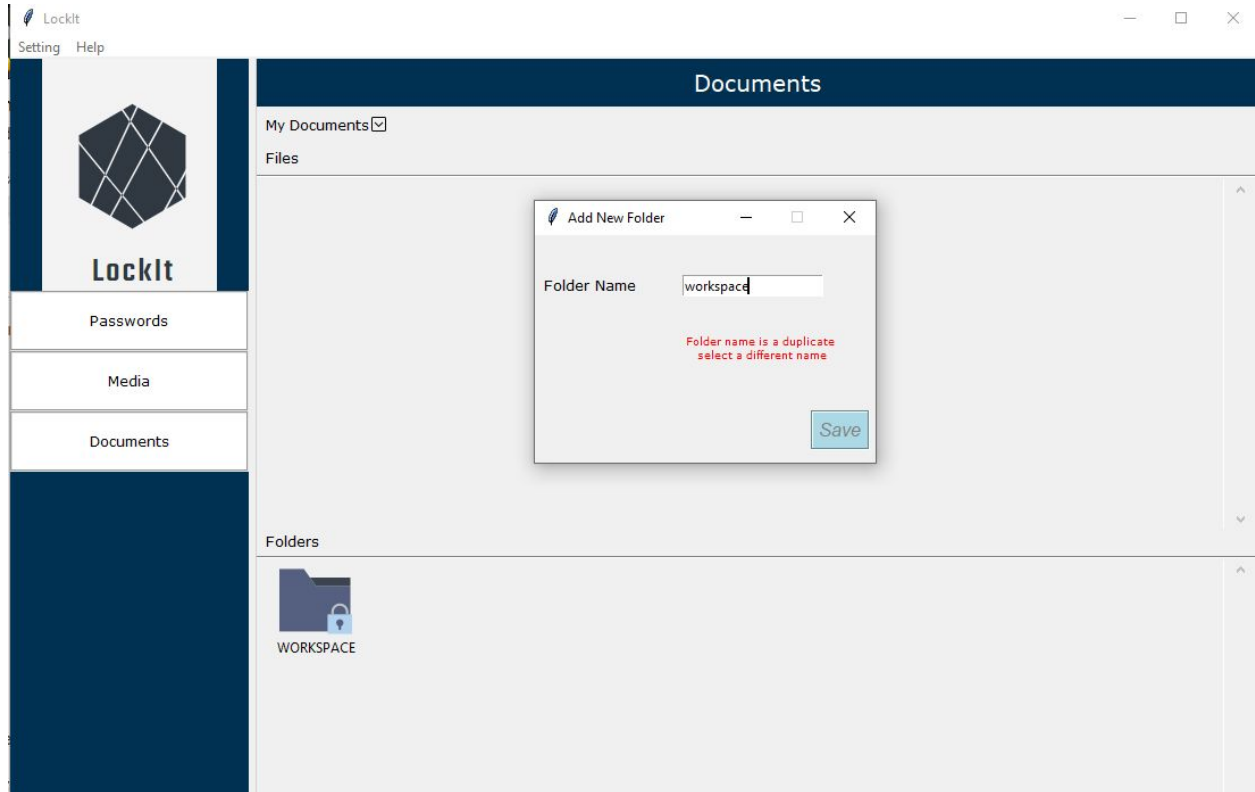
- **Single click** on “**Add New Folder**” will open pop-up window to add new folder
- **Right click** on folder will open a pop-up menu:
 - Rename folder
 - Delete folder

1.) Add folder - If user would like to add a folder selecting ‘**Add New Folder**’ from the drop down menu would open a pop-up window to enter new name and save.

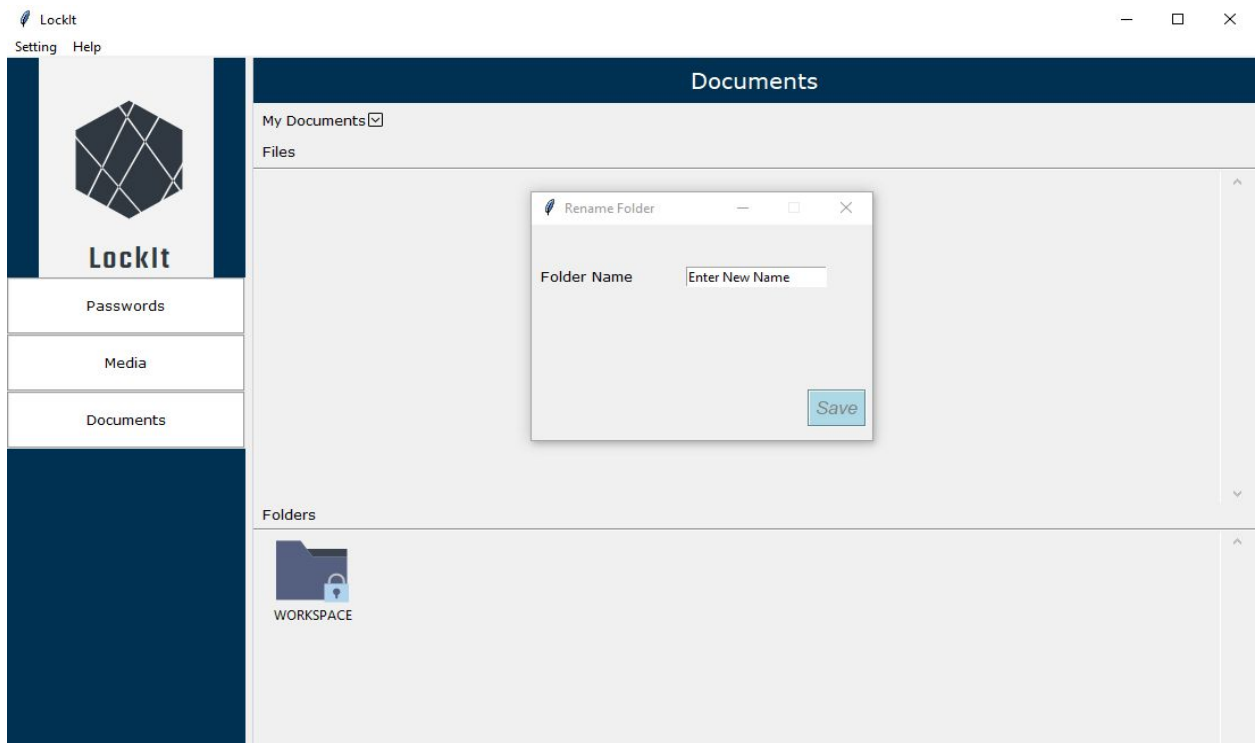
- Folder name – name of the new folder to be created
- Save – button to save the new folder



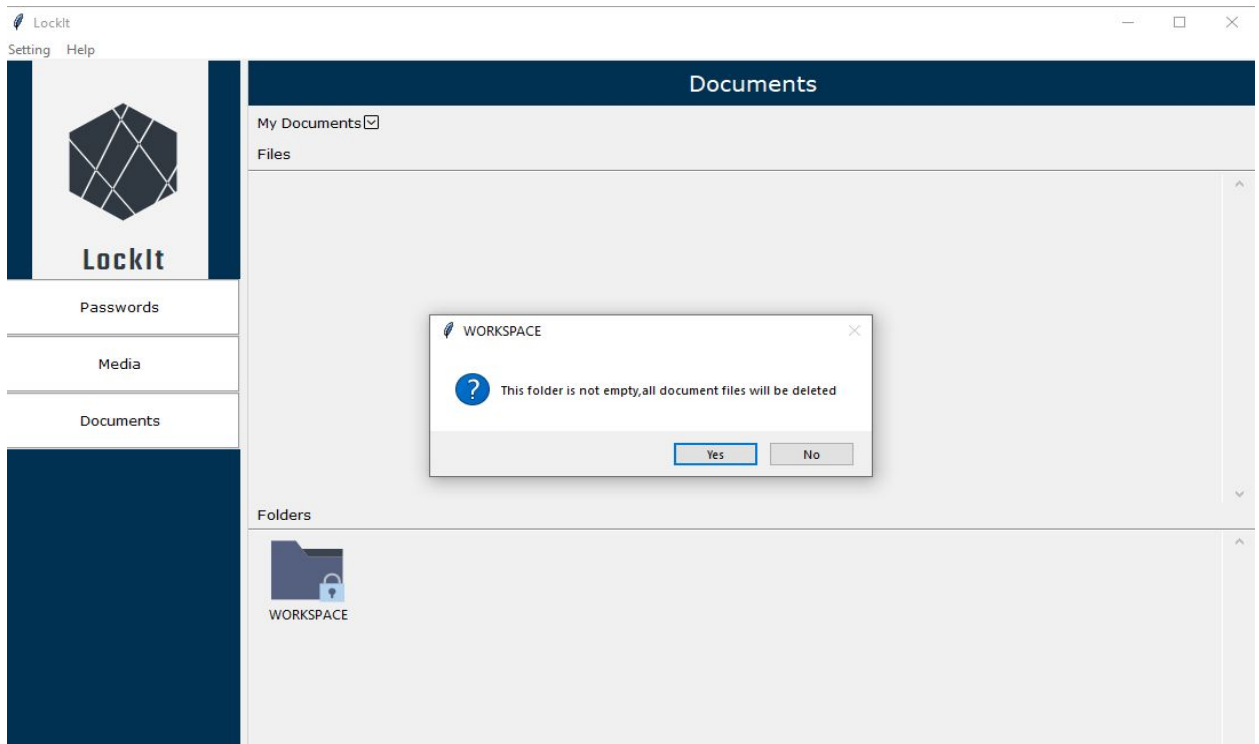
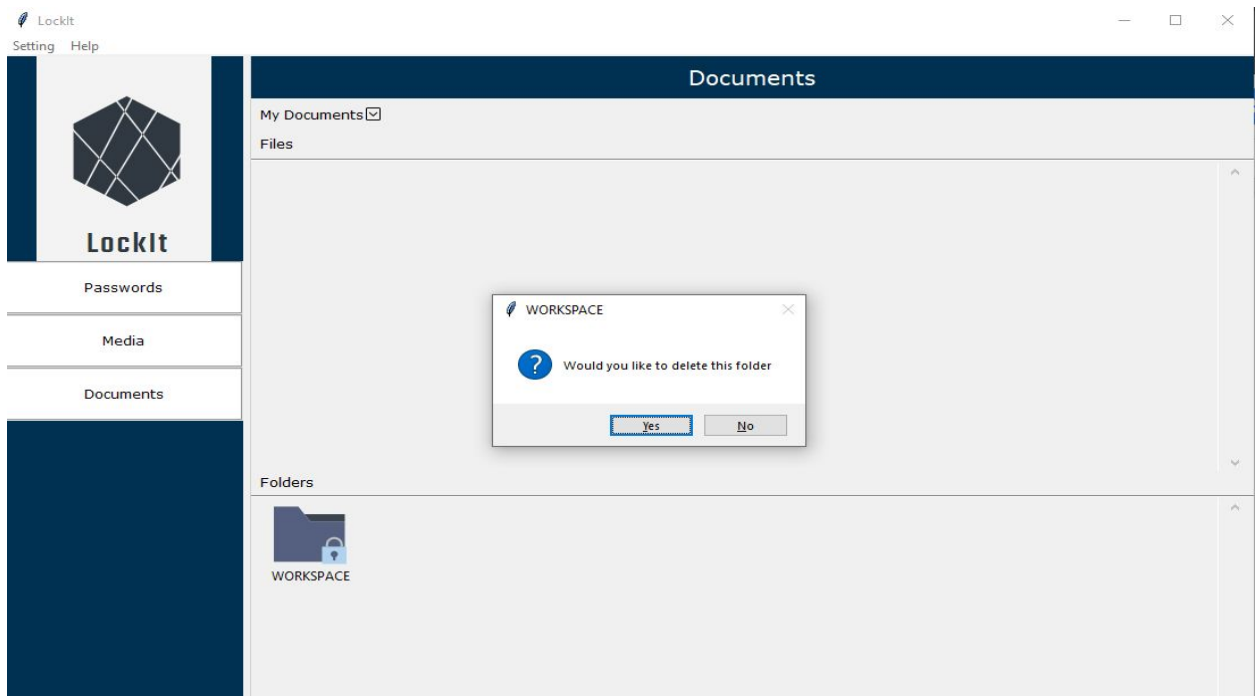
- Duplicate error – If there already exist a folder with the same name, it will display an error message, asking user to change the name.



- 2) Rename folder – If user would like to rename the folder then selecting rename folder from the drop down menu would open a pop-up window to enter new name.

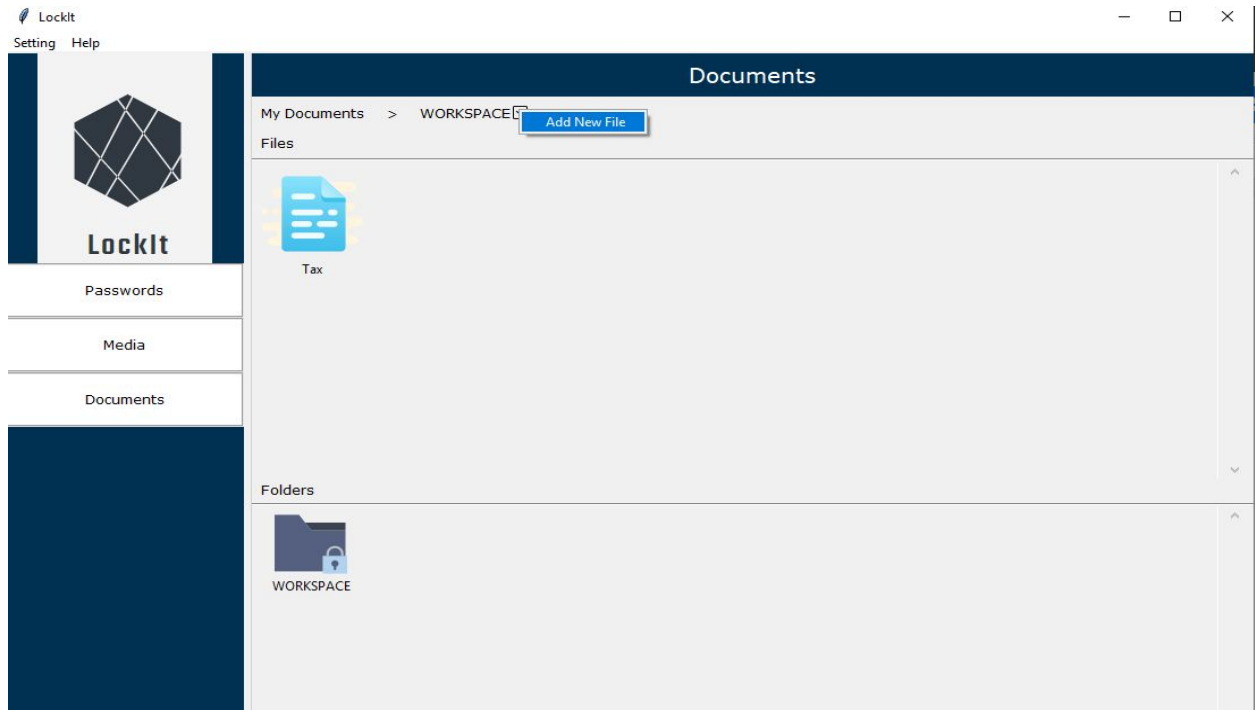


- 3) Delete folder - If user would like to delete the folder then selecting delete folder from the drop down menu, that would open a pop-up window asking confirmation from user for deletion. If user selects 'yes' button the folder will be deleted. If the folder has document files another pop-up window will be displayed informing the user that the document files inside the folder will be deleted. If user selects 'no' the pop-up window will be closed.



4) View Folder - if the user wants to view the contents of the folder or to add files to it the user should **left double click** the folder.

- The Document navigation will show the user its location. The user can click on the name of the folder in the navigation bar which will show a menu option to add new file.



- To go back to the default folder 'My Documents', left click on 'My Documents'

