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# Introduction

Wallet Manager is a desktop application that is used to manage and track income and expenses. The user can log in to the system to perform CRUD his/her transactions. Especially, this is built to one client but he/she can grant access to the data by creating different user accounts.

# Aim

The aim of this project is to build a user-friendly transaction manager and cross platform application in C++ using Qt Creator.

# Scope

Waller manager will allow an user to create user accounts to perform CRUD (create, read, update and delete) functionalities to their transactions. The main screen will display the total income, expenditure and the current balance. The settings option is used to add, update and delete the user accounts and categories of the transactions (income and expenses).

Wallet manager will use SQLite database to enhance the performance and portability. Since Qt has built in support for SQLite.

# Functionality

Wallet manager includes the following functions.

* **CRUD income and expenses** - The client can create, read, update and delete expenses.
* **User Authentication** – Secured user authentication is used. Therefore, to log into the system user should know the credentials.
* **User Accounts** – The client can create accounts to grant access to the data.
* **Manage categories** – Settings page will allow the user to add, update and delete income and expense categories.
* **Summary of the transactions** – Main screen aka home screen will display the total income, expenditure and savings. Total value is calculated automatically when the user add any transaction.

# Issues and bugs

Bugs were identified and fixed when developing the application. However, I couldn’t fix the bug that is in the settings page, when editing categories, the row become empty after cancelling the dialog box but if the OK option is selected it will work fine.

# Future implementation

Next version of the wallet manager will focus on

* Fixing the bugs mentioned above,
* Introducing separate accounts for managing data respectively,
* Report generating with charts.

# Supported platforms

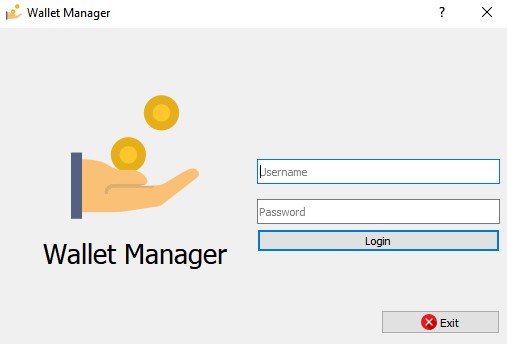
Wallet Manager has been tested and verified to run on the following platforms

* Windows 10
* Linux (Ubuntu)
* Mac OS

Since this application is cross-platform it will work on any operating system with minor chances. Following are the screenshots of the application working on the above-mentioned operating systems.

Preview of the Login

**Windows 10**

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**Mac OS**

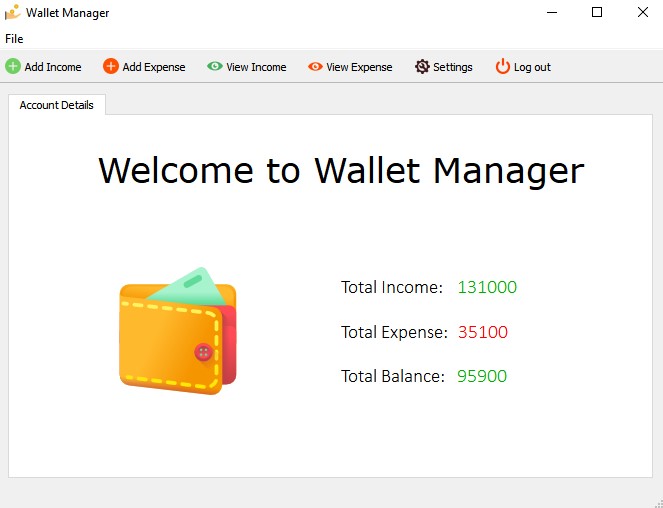


**Linux**

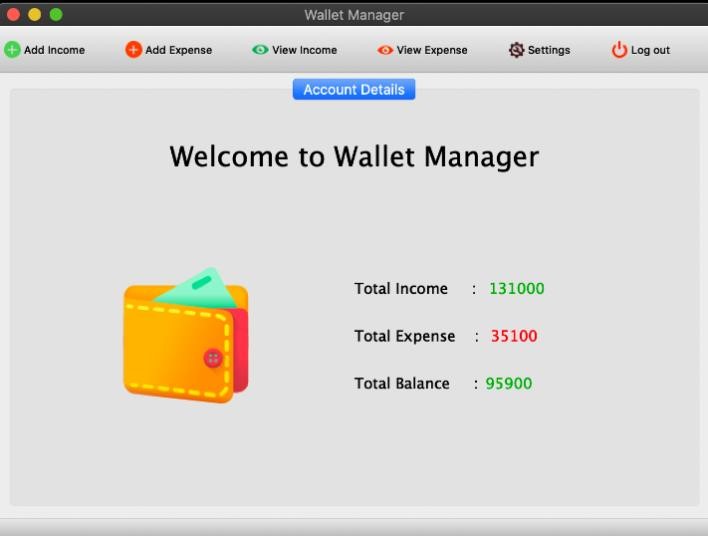


Preview of the Home screen

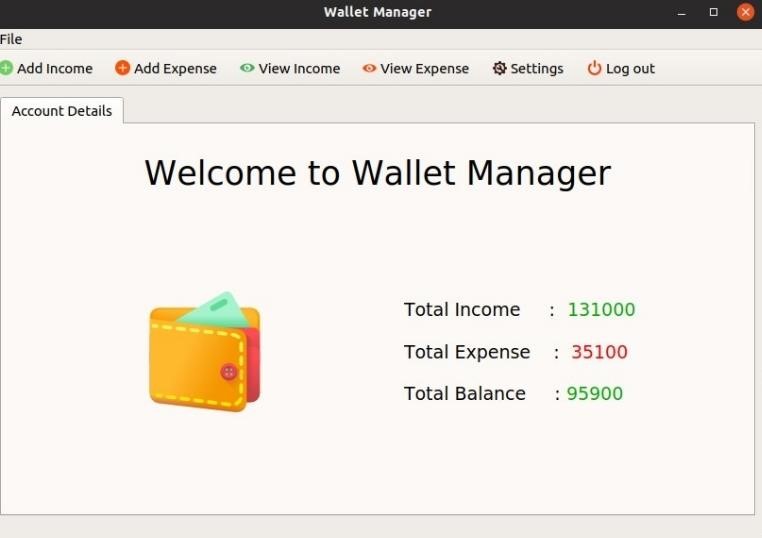
**Windows 10**



**Mac OS**



**Linux**

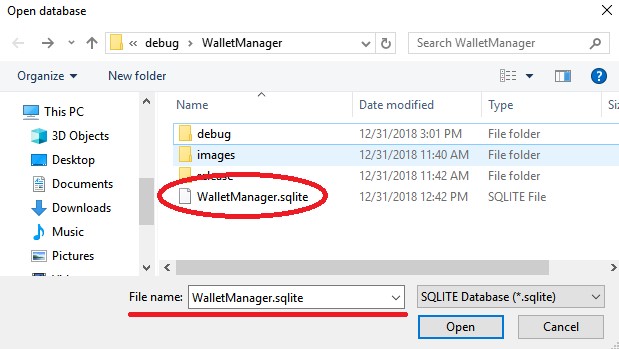


# User Manual

**Step 1 – Run the program.**

**Step 2 – Select and Open the database file.**

When starting the Wallet Manager, it will search for the database. If the database file is not found in the saved location, it will pop out a dialog box that will ask the user to select the database file, then select the WalletManager file with the extension of .sqlite Example – WalletManager.sqlite

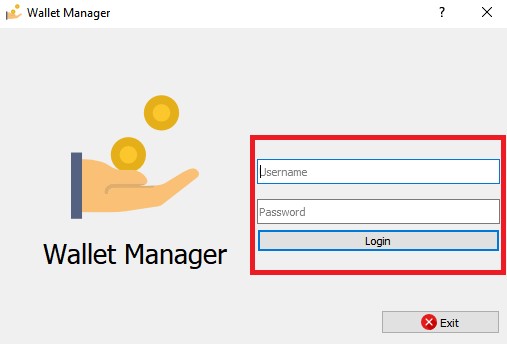
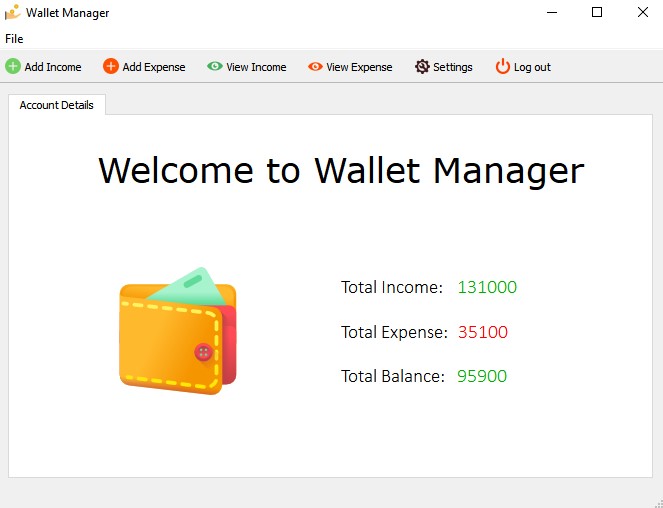


**Step 3 – Enter user credentials.**

After selecting database file, Login screen would appear and enter the following credentials in the text fields and press login button.

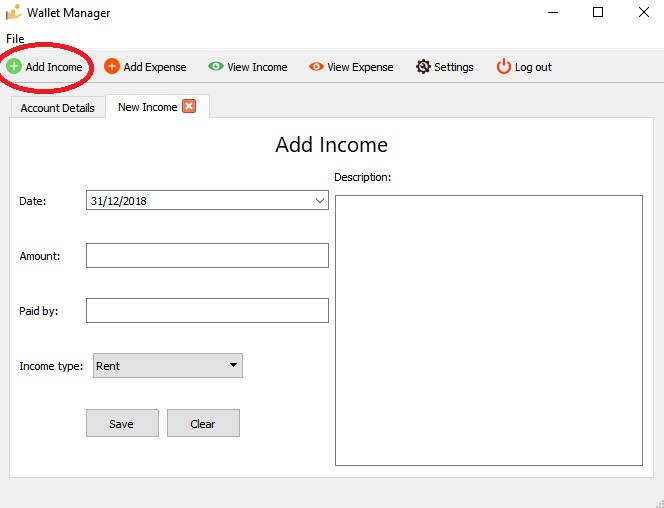
Username: **admin**

Password: **password**

 If you enter the credentials correctly, the following screen (home screen) should appear,

That means you have successfully entered to the wallet manager. This page will allow the client to navigate using the main tool bar and log out or quit if needed.

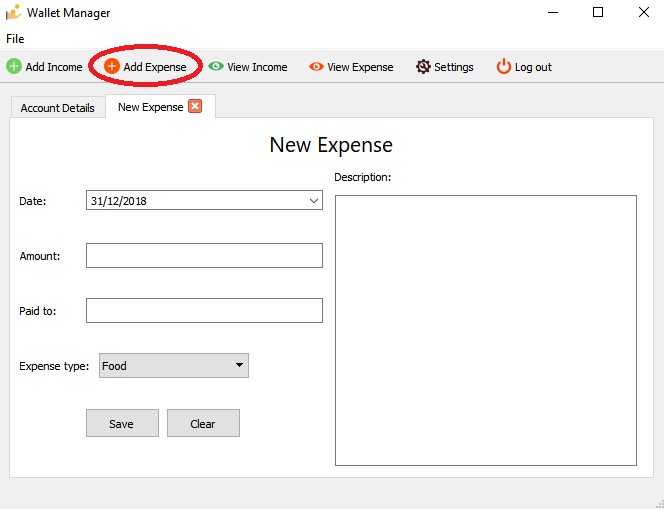
## **Add income**



Click - > Add income,

The user can enter new income details and save the record by clicking **save** button (All fields are mandatory to save successfully) **Clear** button is used to empty the fields.

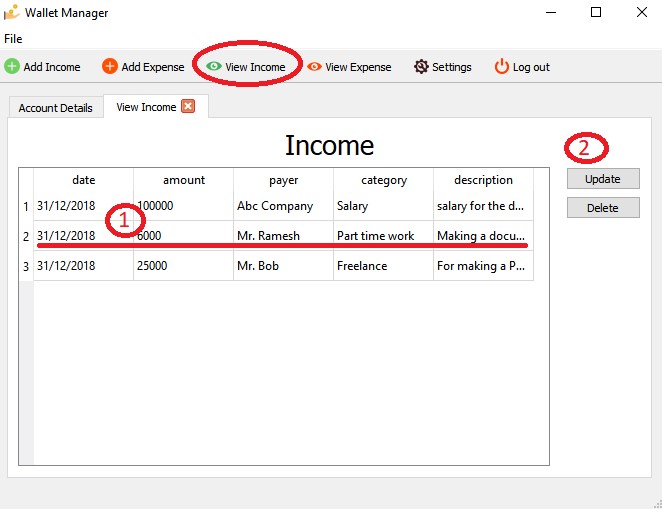
## **Add expense**



Click - > Add expense,

The user can enter new expense details and save the record by clicking **save** button (All fields are mandatory to save successfully) **Clear** button is used to empty the fields.

## **View income**



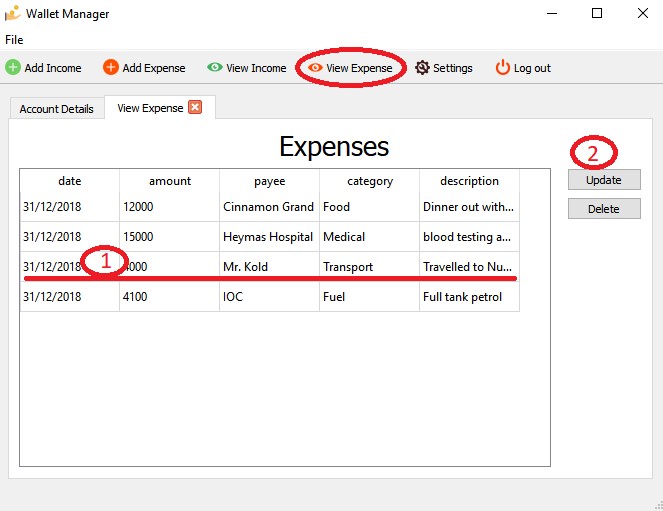
Click - > View income,

Example -

Step 1 – Select the record.

Step 2 – Choose update to edit or Delete to remove the record.

## **View expense**



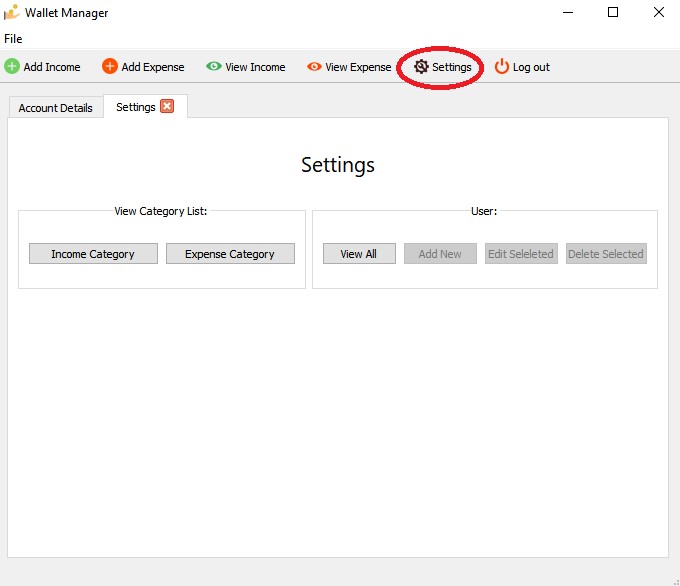
Click - > View expense

Example -

Step 1 – Select the record.

Step 2 – Choose update to edit or Delete to remove the record.

## Settings



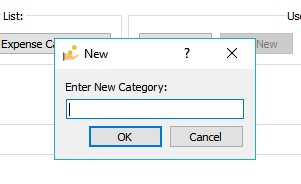
Click - > Settings

User can select either view category list (Income or expense) or User to add, edit and delete.

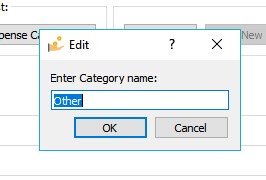
## Settings – Income category

Option 1 - Click -> Settings -> Income category

## Settings – Expense category

Option 2 - Click -> Settings -> Expense category

An income or expense category can be added by clicking Add button in the bottom of the left screen.



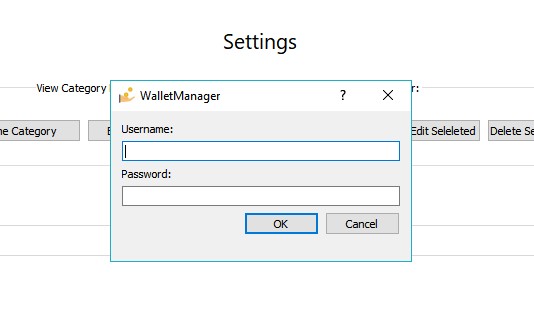
An income or expense category can be edited by clicking edit button in the bottom of the screen. To Delete a category, select the category and click the delete button.

## Settings – User

Option 3 - Click -> Settings -> View all

Once the view all button is clicked, user accounts will be displayed in the table.

**NOTE:** Add new, edit selected and delete selected will be disabled until the view all users button is clicked.



Option 3 - Click -> Settings -> View all -> Add new

User can add new users to manage the transactions.

# Referencing

Icon made by [https://www.alfredocreates.com](https://www.alfredocreates.com/) from [www.flaticon.com](http://www.flaticon.com/)

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