WalletCLi - User Guide

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1. Introduction

Welcome to WalletCLi!

WalletCLi is a text-based (Command Line Interface) expenses/loan application that caters to NUS students and staffs who prefer to use a desktop application for managing their expenses and loans.

WalletCLi allows its users to record their daily expenses and loans. It enables easy creation, editing and deletion. Users can also pre-set their budget, and **WalletCLi** will automatically track your current expenses to ensure that its users' expenses stay within their stated budget. Expenses and loans can be efficiently managed via our intuitive category system.

WalletCLi is optimized for those who prefer to work with a Command Line Interface (CLi) and/or are learning to work more efficiently with CLi tools. Additionally, unlike traditional expenses/wallet applications, **WalletCLi** utilizes minimal resources on the user's machine while still allowing users to manage their expenses and keep track of their loans swiftly and efficiently.

2. About this User Guide

This user guide provides a quick start guide for you to easily setup install **WalletCLi**, documentation of all various features **WalletCLi** offers, frequently asked questions and a summary of the available commands. To navigate between the different sections, you could use the table of contents above.

For ease of communication, this document will refer to expenses/loans/contacts that you might add to the application as *data*.

Additionally, throughout this user guide, there will be various icons used as described below.

♡	This is a tip. Follow these suggested tips to make your life much simpler when using WalletCLi !
i	This is a note. These are things for you to take note of when using WalletCLi .
I	This is a sign-post dictating important information. These are information that you will surely need to know to use WalletCLi efficiently.
<u></u>	This is a sign-post informing caution. Please take note of these items and exercise some care.
\wedge	This is a rule. Ensure that you follow these rules to ensure proper usage of WalletCLi .

3. Features

This section displays the features that you can expect from **WalletCLi**.

Expenses System

- Add records of your expenses.
 - o You may include records of your past expenses or any impending expenses.
- Manage these records by editing or deleting them.
- Tag and view your expenses with predefined categories
- Include recurring expenses. Recurrence rate can be either daily, weekly or monthly.
 - WalletCLi will automatically duplicate and fill up the records up to the end of the current month.

Loan System

- WalletCLi allows you to add loans that is referenced to a contact.
- After you have settled the loans, you can mark it as settled.
- If there are any changes to your loans, you can also edit your loans via the loan ID.
- WalletCLi also allows you to delete loans whether it is settled or unsettled.

Contact System

• WalletCLi allows you to add contact details such as phone number so that you can tag your loans to them.

Notification and Reminder System

- WalletCLi will show you a list of unsettled loans after it starts up and will start an auto-reminder every 30 minutes by default.
- You can set the timings for the auto-reminder. Likewise, you can turn the reminders off or on when you need to.
- WalletCLi will also keep track of your budget and expenses, and notify you when
 your expenses are close to the budget you set. Likewise, when you exceed your
 budget, WalletCLi is capable to notify you as well.

4. Quick Start

This section guides you through the installation of **WalletCLi** and provides a few sample commands you may try.

- 1. Ensure you have Java version 9 or later installed in your Computer.
- 2. Download the latest jar file from https://github.com/AY1920S1-CS2113T-W17-2 /main/releases
- 3. Copy the file to the folder you want to use as the home folder for the application.
- 4. Open command prompt (cmd) in the folder chosen above.
- 5. Start the app by running the jar file with the following command: run java -jar {jar file name}

6. You should see the GUI appear in a few seconds.

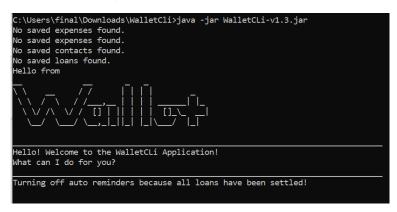


Figure 1: GUI screen upon starting WalletCLi



Commands are not case-sensitive.

- 7. Type the command in the command box and press *Enter to execute it*. For example, typing *help pressing Enter* will open the help window.
- 8. Here are some other commands you can try:
 - **budget \$1000 01/2019**: **WalletCLi** takes note of this budget and reminds you when you are close to or have exceeded the budget for January 2019.
 - List expense: List all expenses in WalletCLi
 - List expense /sortby date: List all expenses in order of date specified in the expenses
 - Bye: Exits the application
- 9. Refer to Section 4, Features for details of each command.

5. Commands

This section explains the commands that you can use to interact with the different features and systems of **WalletCLi**.

Command Format

- Words in UPPER_CASE are the parameters to be supplied by you. For example, in /r DAILY, DAILY is a parameter which can be used as the recurrence rate.
- Items in square brackets are optional. For example, in add expense <DESCRIPTION> <AMOUNT> <CATEGORY> [/on <date>] [/r <RECURRENCE RATE>], /on <DATE>, /r <RECURRENCE RATE> is a parameter that may be omitted.

Identifiers and Parameters

Identifiers in **WalletCLi** are designed to be short and easy to memorise. Once you are familiarised with them, you will be intuitive to use the parameters. The table of Identifiers and Parameters and their descriptions below is useful for your reference as you jump right into grasping the system.

Identifier	Parameter	Description	Format	Example
	LEND	Sorts loans based on user lending money	Text	/sortby lend
/sortby	BORROW	Sorts loans based on user borrowing money	Text	/sortby borrow
	DATE	Sorts expenses or loans by date specified in expenses or loans	Text	/sortby date
	CATEGORY	Sorts expense or loans by their specified category	Text	/sortby category
/on	DATE	Date of expense	Text	/on 20/01/2019
/r	RECURRING	Frequency of expenses	Text	/r daily
/d	DESCRIPTION	Description of a Loan	Text	/d interest rate 10%
	DETAILS	Details of contact	Text	/d friend
/p	PHONE NUMBER	New contact phone number (Edit Feature)	Text	/p 91234567
/a	AMOUNT	New loan amount (Edit feature)	Number	/a 1000
/n	NAME	New name of Contact (Edit feature)	Text	/n David



While the table shows you all the identifiers and parameters that **WalletCLi** uses, some commands do not make use of identifiers nor parameters. The view command is one such exception that makes use of keywords that must be typed in a specific order.

5.1 Viewing help: help

There are different help sections included in **WalletCLi** that can help you if you are unsure of the command syntax. Access any of the sections by keying in its index or enter 0 to exit the help shell.

Format: help

```
help
Need help? The following help sections are available:
1.General
2.Expense
3.Loans
4.Contacts
5.Command History

Note the following when reading help sections:
<> indicates required parameters for command
[] indicates optional parameters for command
Key in help section number (enter 0 to exit):
```

Figure 5.1.1: Help section

5.2 Listing data: List

You can list and view your current Contacts, Loans and Expenses in **WalletCLi** depending on your command.

Format for listing data by specific date: list <DATE> Examples:

• list 02/03/2019

Figure 5.2.1: Listing loans and expenses related to date 2nd March 2019.

Format for listing all data: list all [</sortby <PARAMETER>>] Examples:

• list all /sortby date

Shows a list of every expenses and loans sorted by the dates specified in each data added

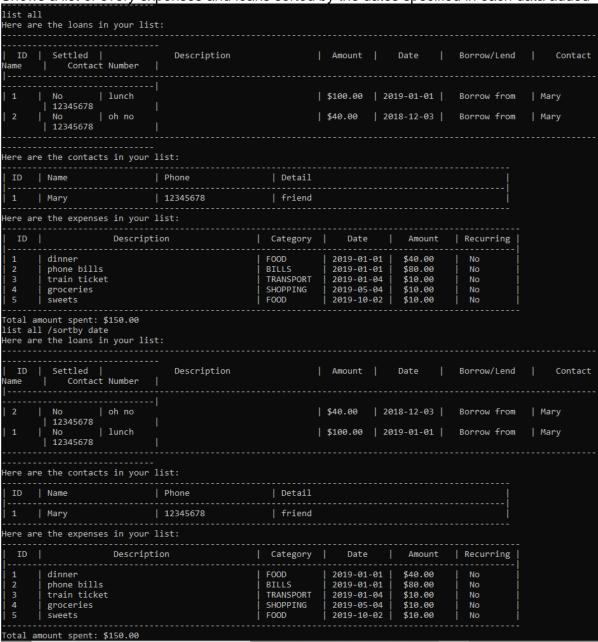


Figure 5.2.2: Listing all data before and after sorting them by date.



Notice that both expenses and loans are sorted by date? That is because expense and loans are able to accept the /sortby date parameter by their own too.

Format for listing Loans: list loan [</sortby <PARAMETER>>] Examples:

• list loan

Shows a list of loans input in **WalletCLi** sorted by lending loans (As a user you specified that you lent money)

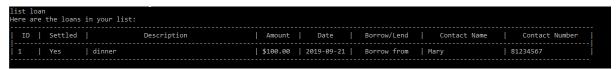


Figure 5.2.3: Listing loans

Format for listing Recurring Expenses: list recurring [</sortby <PARAMETER>>] Examples:

• list recurring /sortby date

ID	Description	Category	Date	Amount	Recurring
25 32	phone bills train ticket groceries sweets	BILLS TRANSPORT SHOPPING FOOD	2019-11-01 2019-11-04 2019-11-04 2019-11-02	\$80.00 \$10.00 \$10.00 \$10.00	MONTHLY MONTHLY MONTHLY MONTHLY
tal amo					
st recu	unt spent: \$110.00 rring /sortby date the expenses in your list:				
st recu	rring /sortby date	Category	Date	Amount	Recurring

Figure 5.2.4: Listing recurring loans before and after calling sorting

Format for listing Expenses: list expense [</sortby <PARAMETER>>] Examples:

list expense /sortby category
 Shows a list of expenses in WalletCLi sorted to each of their specific categories.

ID	Description	Category	Date	Amount	Recurrin
d	dinner	FOOD	2019-01-01	\$40.00	No
į p	phone bills	BILLS	2019-01-01	\$80.00	No
t	train ticket	TRANSPORT	2019-01-04	\$10.00	No
	groceries	SHOPPING	2019-05-04	\$10.00	No
	sweets	FOOD	2019-10-02	\$10.00	No
al amou t expen	unt spent: \$150.00 ise /sortby Category the expenses in your list:	1000		\$10.00	
 al amou t expen	unt spent: \$150.00 se /sortby Category	Category	2019-10-02 Date	Amount	NO
al amou t expen e are t 	unt spent: \$150.00 nse /sortby Category the expenses in your list: Description	Category	Date	Amount	Recurrin
al amou t expen e are t ID p	unt spent: \$150.00 use /sortby Category the expenses in your list: Description Ohone bills	Category BILLS	Date	Amount \$80.00	Recurrin
al amou t expen e are t ID p	unt spent: \$150.00 nse /sortby Category the expenses in your list: Description ohone bills	Category BILLS FOOD	Date 2019-01-01 2019-01-01	Amount \$80.00	Recurrin
al amou t expen e are t ID p d	unt spent: \$150.00 use /sortby Category the expenses in your list: Description Ohone bills	Category BILLS	Date	Amount \$80.00	Recurrin

Figure 5.2.5: List of expenses from default to category sorting



We only have a total of 5 categories available for use, and they are **food**, **bills**, **transport**, **shopping** and **others**.

Format for listing Contacts: list contact Examples:

• list contact

Shows a list of contacts in WalletCLi

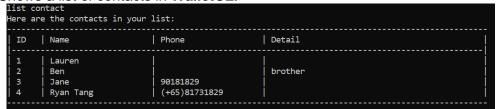


Figure 5.2.6: Listing contacts



The default results of *list* command are sorted by the date you added the data into **WalletCLi**.

5.3 Adding Data: add

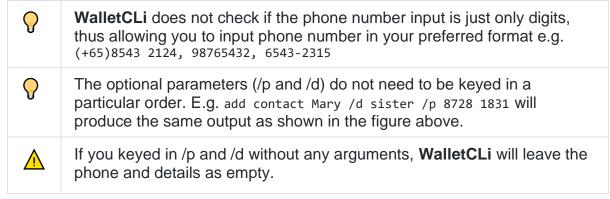
You can either add Contacts, Loans or Expenses to **WalletCLi** depending on your command.

Format for adding Contacts: add contact <NAME> [/d <DETAILS>] [/p <PHONE NUMBER>] Examples:

add contact Mary /p 8728 1831 /d sister
 Adds a single contact that consists of the name Mary, a description of Mary being your sister and her phone number, i.e. number 1728 1831.

add contact Mary /p 8728 1831 /d sister Got it. I've added this contact: [ID: 5]Mary sister 8728 1831

Figure 5.3.1: Adding contacts



Format for adding Loans: add loan <DESCRIPTION> <AMOUNT> <DATE> </1 or /b> </c CONTACT ID>

Examples:

add loan lunch \$100 21/09/2019 /b /c 2
 Adds a single loan; you borrowed 100 dollars for lunch on the 21st September 2019.
 And by default, it will be indicated that the loan has not been settled.

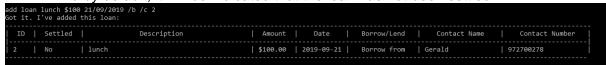


Figure 5.3.2: Adding loans

Format for adding Expenses: add expense <DESCRIPTION> \$<AMOUNT> <CATEGORY> [/on <date>] [/r <RECURRENCE RATE>]

Examples:

 add expense textbooks \$500 shopping
 Adds a single expense of textbooks worth 500 dollars today and place them under the shopping category as a one-time expense.



Figure 5.3.3: Adding a non-recurring expense

• add expense Phone Bill \$30 Bills /on 10/10/2019 /r monthly Adds a single monthly recurring expense of bills worth 10 dollars starting from the 1st of February 2019.

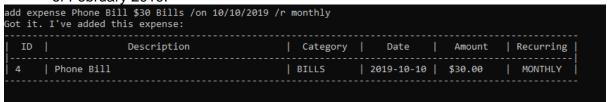
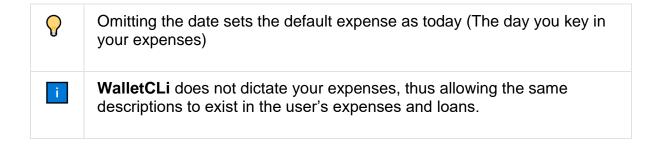


Figure 5.3.3: Adding a recurring expense



5.4 Editing Data: edit

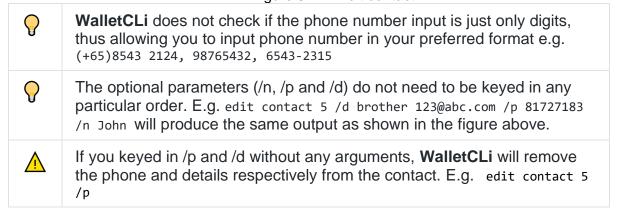
You can either edit your Contacts, Loans or Expenses to **WalletCLi** depending on your command.

Format for editing Contacts: edit contact <CONTACT ID> [</n NEW NAME>] [</d NEW DETAILS>] []
Examples:

edit contact 5 /n John /p 81727183 /d brother 123@abc.com
 Edits a single contact by changing the name to John, updating his phone number, i.e. number 81727183 and changing the details to John's email as well as indicating him as brother.

edit contact 5 /n John /p 81727183 /d brother 123@abc.com Successfully edited this contact: [ID: 5]John brother 123@abc.com 81727183

Figure 5.4.1: Edit contact



Format for editing Loans: edit loan <LOAN ID> </d NEW DESCRIPTION> </a NEW AMOUNT> </t NEW DATE> [</l or /b>] [</c> ID OF CONTACT]

Examples:

edit loan 1 /d dinner /a 10.50 /t 10/10/2019 /c 1
 Edits a single loan by changing the description to "dinner", changing the amount to \$10.50, changing the date to 2019-10-10 a and change the contact with an ID of 1, who in this case is Mary.

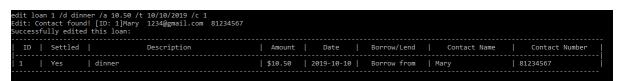


Figure 5.4.2: Edit loan

Format for editing Expenses: edit expense <EXPENSE ID> [/d <DESCRIPTION>] [/t <DATE>] [/a <AMOUNT>] [/c <CATEGORY>] [/r <RECURRENCE RATE>]

Examples:

add expense	t expense 2 /a 4.50 /c fo Phone Bill \$30 Bills /on 10/10/ added this expense:	
ID	Description	Category Date Amount Recurring
4 Pho	one Bill	BILLS 2019-10-10 \$30.00 MONTHLY
	e 4 /a 10 /c food /r daily / edited this expense:	
ID	Description	Category Date Amount Recurring
4 Pho	one Bill	FOOD 2019-10-10 \$10.00 DAILY

Figure 5.4.3: Example of editing an expense



Use *list* command to view your loans, expenses or contacts first to retrieve the ID before editing.

5.5 Deleting Data: deLete

You can either delete your Contacts, Loans or Expenses to **WalletCLi** depending on your command.

Format for deleting Contacts: delete contact <CONTACT ID> Examples:

• delete contact 5

```
delete contact 5
Noted. I've removed this contact:
[ID: 5]John brother 123@abc.com 81727183
```

Figure 5.5.1: Delete contact

Format for deleting Loans: delete loan <LOAN ID> Examples:

• delete loan 1



Figure 5.5.2: Delete loan

Format for deleting Expenses: delete expense <EXPENSE ID> Examples:

• delete expense 2



Use *list* command to view your loans, expenses or contacts first to retrieve the ID before deleting.

5.6 Completing Loans: done

You can mark your loans as settled in WalletCLi.

Format: done loan <LOAN ID>

Examples:

• done loan 2

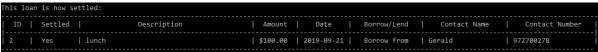


Figure 5.6.1: Marking loan as settled

5.7 Setting Budget: budget

You can set your budget for each month in WalletCLi.

Format: budget <AMOUNT> <MONTH/YEAR>

Examples:

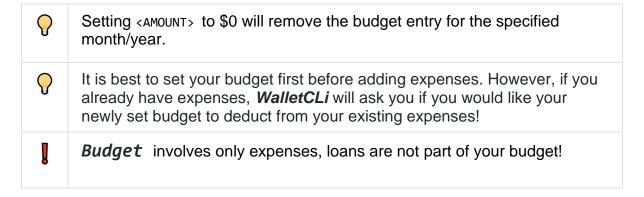
Budget \$400 02/2019

```
budget $400 02/2019

400.0 dollars is the budget set for February 2019

Note that to update your budget, simply set the budget for the same month and year again.
```

Figure 5.7.1: Setting budget for February 2019



5.8 Viewing Statistics: view

You can view your budget or statistics for each month in **WalletCLi**. Format for viewing schedules: view budget <MONTH/YEAR> Examples:

• view budget 02/2019

```
view budget 02/2019
This is the budget left for February 2019
$400.0
```

Figure 5.8.1: Viewing budget for February 2019

Format for viewing statistics: view stats [<date>] Examples:

Figure 5.8.2: Viewing the pie chart for all expenses made

5.9 Setting Reminders: reminder

You can enable or disable reminders for loans, upcoming expenses and remaining budget for the month in **WalletCLi**. You can also set how often you should get reminded by **WalletCLi**.

Format for enabling reminders: reminder on

Figure 5.9.1 Turning on reminders:

Format for disabling reminders: reminder off reminder off

```
reminder off
Got it. I've turned off reminders!
Stopping thread...
```

Figure 5.9.2: Turning off reminders

Format for setting frequency: reminder set <TIME IN SECONDS> Examples:

• reminder set 3600

reminder Got it. I		eminders to notify every 3600 seco	nds			
Stopping Reminder		your loans soon!				
	Settled		Amount Date	Borrow/Lend	Contact Name	Contact Number
3	No	lunch	\$100.00 2019-09	-21 Borrow from	Gerald	972700278

Figure 5.9.3: Setting reminders in intervals of 1800 seconds

5.10 Viewing command history: history

You can view the history of previously executed commands in **WalletCLi**. Format: history

```
history
Command History from earliest to latest:
add loan lunch $100 21/09/2019 /b /c 2
edit loan 1 /d dinner /a 10.50 /t 10/10/2019 /c 1
delete loan 1
done loan 2
add loan lunch $100 21/09/2019 /b /c 2
```

Figure 5.10.3: Setting reminders in intervals of 1800 seconds

5.11 Undo previous command: undo

You can undo the previous command executed in WalletCLi.

ID	Settled	Description	Amount	Date	Borrow/Lend	Contact Name	Contact Number
1	No	For business start up	\$1000.00	2019-09-21	Borrow from	Mary	81234567
t lo re ar		in your list:					
ID	Settled	Description	Amount	Date	Borrow/Lend	Contact Name	Contact Number
2 3 4	Yes No No	lunch lunch For business start up	\$100.00 \$100.00 \$1000.00	2019-09-21 2019-09-21 2019-09-21	Borrow from Borrow from Borrow from	Gerald Gerald Mary	972700278 972700278 81234567
ist lo	ng back to po	For business start up revious state in your list:	\$1000.00 	2019-09-21	Borrow from	Mary	81234567
	Settled	Description	Amount	Date	Borrow/Lend	Contact Name	Contact Number
ID	3eccieu	Description.					

Figure 5.11.1: Undo add loan command

5.12 Redo previous command: redo

You can redo the previous command executed in WalletCLi.

Format: redo

undo Reverting back to p list loan Here are the loans				
ID Settled	Description	Amount Date	Borrow/Lend Contact Name	Contact Number
2 Yes 3 No	lunch lunch	\$100.00 2019-09-21 \$100.00 2019-09-21	Borrow from Gerald Borrow from Gerald	972700278 972700278

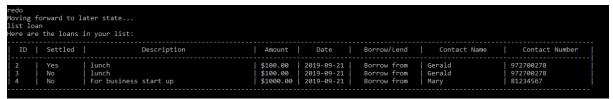


Figure 5.12.1 and Figure 5.12.2: Redo Command

5.13 Export: export

You can export expenses or loans from **WalletCLi** into csv files. It will be stored under your home folder (mentioned in Section 4. Quick Start). The file names will be "exportedLoans.csv" and "exportedExpenses.csv" for loans and expenses respectively. Sample files can be found at this link: https://github.com/AY1920S1-CS2113T-W17-2/main/tree/master/sample%20csvs



Figure 5.13.1: Exported Files WalletCLi Home directory

Format for expenses: export expenses <MONTH/YEAR>



MONTH/YEAR has to be keyed in the format of MM/yyyy. It is to indicate the month in which you want to retrieve expenses.

Example:

export expenses 10/2019
 Exports expense records for October 2019.

```
export expenses 10/2019

Export success! File saved to -> C:\Users\final\Downloads\WalletCli\exportedExpenses.csv
```

Figure 5.13.2: Exporting Expenses

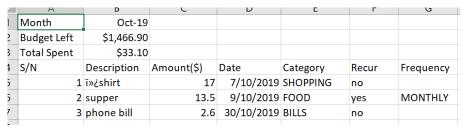


Figure 5.13.3: Exported expense file viewed in Excel

```
"Month","10/2019"
"Budget Left","$1466.9"
"Total Spent","$33.1"
"S/N","Description","Amount($)","Date","Category","Recur","Frequency"
"1","shirt","17.0","07/10/2019","SHOPPING","no",""
"2","supper","13.5","09/10/2019","FOOD","yes","MONTHLY"
"3","phone bill","2.6","30/10/2019","BILLS","no",""
```

Figure 5.13.4: Exported expense file viewed in Notepad

"Budget Left" indicates the budget left for the month. **WalletCLi** will not export the budget left for the month if no budget is not specified in the application.

The amount at "Total Spent" is the sum of the amount spent from the exported expense records. Adding the amount at "Total Spent" to the amount at "Budget Left" does not give the original budget set for the month, since expense records for the month may have been deleted previously from the application.

Format for loans: export loans

export loans

Export success! File saved to -> C:\Users\final\Downloads\WalletCli\exportedLoans.csv

Figure 5.13.5: Exporting Loans

	U	_	U	L	1	9	11	1
S/N	Description	Amount(\$)	Created Date	Name	Phone	Other Details	Lend/Borrow	Settled
1	lunch	30	1/10/2019	Lauren			lend	yes
2	dinner	15.5	2/10/2019	Ben		brother	borrow	no
3	breakfast	1.5	15/10/2019	Jane	90181829		borrow	yes
4	supper	25	23/10/2019	Ryan Tang	(+65)81731829		lend	no

Figure 5.13.6: Exported loan file viewed in Excel

"S/N","Description","Amount(\$)","Created Date","Name","Phone","Other Details","Lend/Borrow","Settled"
"1","lunch","30.0","01/10/2019","Lauren","",","lend","yes"
"2","dinner","15.5","02/10/2019","Ben","","brother","borrow","no"
"3","breakfast","1.5","15/10/2019","Jane","90181829","","borrow","yes"
"4","supper","25.0","23/10/2019","Ryan Tang","(+65)81731829","","lend","no"

Figure 5.13.7: Exported loan file viewed in Notepad

5.14 Import: import

You can create expenses or loan records in csv files and import them from your home directory (mentioned in Section 4. Quick Start) into **WalletCLi**. Sample files can be found at this link and you can try importing them into **WalletCLi**: https://github.com/AY1920S1-CS2113T-W17-2/main/

tree/master/sample%20csvs



Figure 5.13.1: Sample Files in Home Directory

Format: import <loans OR expenses> <FILENAME>

Example:

import loans importLoans.csv
 Importing loans from sample csv file, importLoans.csv.

Figure 5.13.2: Importing Loans



5.14.1 Expense csv Format

This section explains how expenses records should be formatted in csv (comma-separated values) before importing into WallotCL is

values) before importing into WalletCLi.

shirt 7/10/2019 17 SHOPPING

supper 9/10/2019 13.5 FOOD yes MONTHLY
phone bill 30/10/2019 2.6 BILLS

Figure 5.14.1.1: Expense Records CSV in Excel View

shirt,07/10/2019,17,SHOPPING supper,09/10/2019,13.5,FOOD,yes,MONTHLY phone bill,30/10/2019,2.6,BILLS

Figure 5.14.1.2: Expense Records CSV in Notepad View

For each row of expense record, it should be formatted in this order:

- 1. Description
- Date(dd/MM/yyyy)
- 3. Amount (digits)
- 4. Category (in capital letters). The following categories are allowed:
 - a. FOOD
 - b. TRANSPORT
 - c.BILLS
 - d. SHOPPING

- e. OTHERS
- 5. (Optional) Recurring Record: Indicate a recurring record by keying in yes.
- 6. (Optional) Frequency: If record is recurring, key in the frequency in capital letters. Choose one of the following:
 - a. DAILY
 - b. WEEKLY
 - c. MONTHLY

<u> </u>	Recurring Record requires a Frequency specified on the same row.
<u> </u>	The input for Recurring Record should be only yes. Any other values keyed in for Recurring Record and Frequency will be ignored and the record will be treated as a non-recurring expense when importing into WalletCi .
i	For Windows Users, if you wrote the csv in Microsoft Excel, do double-check the format of Date in text editors, e.g. Notepad. By default, Excel may store the value of Date in d/MM/yyyy format instead.

5.14.1 Loan csv Format

This section explains how loan records should be formatted in csv (comma-separated

values) before importing into WalletCLi.

	Α	В	C	D	E	F	G	Н
1	lunch	1/10/2019	30	lend	yes	Lauren		
2	dinner	2/10/2019	15.5	borrow	no	Ben	brother	
3	breakfast	15/10/2019	1.5	borrow	yes	Jane		90181829
4	supper	23/10/2019	25	lend	no	Ryan Tang	123@abc.com	(+65)81731829
_								

Figure 5.14.1.1: Loan Records CSV in Excel View

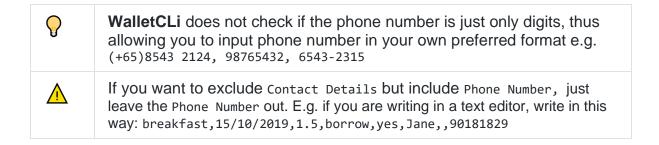
lunch,01/10/2019,30,lend,yes,Lauren dinner,02/10/2019,15.5,borrow,no,Ben,brother breakfast,15/10/2019,1.5,borrow,yes,Jane,,90181829 supper,23/10/2019,25,lend,no,Ryan Tang,123@abc.com,(+65)81731829

Figure 5.14.1.2: Loan Records CSV in Notepad View

For each row of loan record, it should be formatted in this order:

- 1. Description
- Date(dd/MM/yyyy)
- 3. Amount (digits)
- 4. Type. Choose either of the following:
 - a. lend
- i. Indicates that you lend someone the money
- b. borrow
 - . Indicates that you borrow money from someone
- 5. Settled (i.e. whether the loan is settled). Choose either of the following:
 - a. Yes
- i. Indicates loan is settled
- b. No
- ii. Indicates loan is not settled
- 6. Name of Contact

- 7. (Optional) Contact Details
- 8. (Optional) Phone Number



5.15: Currency exchange: currency

You can switch your current expenses and loans currency in WalletCLi.

When you switch currency based on a particular country, the expenses and loans with the new converted amount will not be saved in your data, as this currency exchange only changes the amount for your viewing during the entire session when using WalletCLi.

You can modify your currency exchange rates directly in the currency.txt file!

Keep in mind that the change in currency in WalletCLi will not change the dollar symbol.

Format: currency <country> Example:

• Currency south korea Here are the expenses in your list: Description | Category | Date Amount Recurring F00D | 2019-01-01 | \$40.00 dinner Total amount spent: \$40.00 currency south korea Your currency is converted to the country of south korea You can add or modify your own currency conversion in /currency.txt list expense Here are the expenses in your list: | Category | Amount Recurring dinner FOOD | 2019-01-01 | \$34380.00 | No Total amount spent: \$34380.00

Figure 5.15.1: Converting currency

6. Future Enhancements [coming in v2.0]

Though the current implementation has much flexibility, there is more that can be done to elevate user experience to the next level. These are some possible enhancements:

- 1. Allowing users to make direct transactions from **WalletCLi** when shopping online.
- 2. You can create and edit your commands in WalletCLi
- 3. **WalletCLi** can sync with the user's bank account to provide more convenience and more monitoring
- 4. Users can receive cashback when they save money to further lower their expenses

7. FAQ

This section provides answers to some frequently asked questions of users.

Q: Where are my data stored?

A: All your data are stored in the /data directory.

Q: How do I transfer my data to another computer?

A: To transfer your data to another computer, you should:

- 1. Install the app on the other computer
- 2. Transfer /data from your old **WalletCLi** folder and place it into the new **WalletCLi** folder.

8. Command Summary

This section provides a quick reference for all commands available in WalletCLi.

8.1 General Commands

Here is a list of general commands that you might find useful in helping you to use and configure **WalletCLi**:

Task	Purpose	Command Format	Example
Help	Displays the User guide	help	help
Exit	Exits the application	bye	bye
Set budget	Sets budget for the given month	budget <amount> <date></date></amount>	Budget \$400 02/2019

Set reminder	Enable or disable reminders, and change reminder interval.	reminder /off or /t <rate>></rate>	reminder /t 30min
View statistics	View statistics of expenses for given month	view stats [<date>]</date>	view stats
Redo	Redo the previous command executed	redo	redo
Undo	Undo the previous command executed	undo	undo
View command history	View the command history	history	history

8.2 Viewing Data Commands Here is a list of commands for viewing your data in WalletCLi:

Task	Purpose	Command Format	Example
List expenses	List all expenses in the application	list expense	list expense
List loans	List all loans in the application	list loan	list loan
List contacts	List all contacts in the application	list contact	list contact
List all	List all expenses, loans and contacts in the application	list all	list all
List data with specific date	List all expenses and loans with the specified date	List <date></date>	List 01/01/2019

8.3 Expense Management Commands Here is a list of commands for managing your expenses in WalletCLi:

Task	Purpose	Command Format	Example
Add expense	Add an expense	add expense <description> <amount> <category> [/on <date>] [/r <recurrence rate="">]</recurrence></date></category></amount></description>	add expense bills \$10 bills /on 01/02/2019 /r monthly
Edit expense	Edit an expense	edit expense <expense id=""> [/d</expense>	edit expense 2 /a 4.50 /c food /r daily
Delete expense	Delete an expense	delete expense <expense id=""></expense>	Delete expense 2

8.4 Loan Management Commands Here is a list of commands for managing your loans in WalletCLi:

Task	Purpose	Command Format	Example
Add loan	Add a loan	add loan <description> <amount> [<date>] </date></amount></description>	add loan lunch \$5.00 01/01/2019 /1
Edit loan	Edit a loan	edit loan <loan id=""> [] [ID OF CONTACT]</loan>	edit loan 0 /d dinner /a \$50.00 /l /c 1
Delete loan	Delete a loan	delete loan <loan id=""></loan>	delete loan 2

8.5 Contact Management Commands Here is a list of commands for managing your contacts in WalletCLi:

Task	Purpose	Command Format	Example
Add contact	Add a contact	add contact <name> [DETAILS>] []</name>	add contact david /d friends /p 12345678
Edit contact	Edit a contact	edit contact <contact id=""> [NEW NAME>] [] []</contact>	edit contact 1 /n notdavid /d sister /p 87654321
Delete contact	Delete a contact	delete contact <contact id=""></contact>	delete contact 2

8.6 Porting Data Commands

Here is a list of commands for exporting or importing data in WalletCLi:

Task	Purpose	Command Format	Example
Export Loans	Exporting loans to csv	export loans	export loans
Export Expenses	Exporting expenses of a month (MM/yyyy) to csv	export expenses <month year=""></month>	export expenses 10/2019
Importing data	Importing data (either loans or expenses) from csv	<pre>import <loans expenses="" or=""> <filename></filename></loans></pre>	import expenses marExpenses.csv

8.7 Currency Conversion Commands

Here is a list of commands for converting currencies in WalletCLi:

Task	Purpose	Command Format	Example
Convert currency	To view expenses and loans amount in different currencies	currency <country></country>	currency italy