

## Brainstorm idea

1. Video downloader via cli. (is it allowed to download video?)
  - a. User can download video if they have the link to view the video. (youtube)
    - i. Internet access + storage space
  - b. Search the video that the user downloaded.
  - c. Rename the video file. (organisation related function)
  - d. Delete the videos that you do not want anymore

Remarks:

### 2. Money expenses tracker

- a. Able to create daily expenses tracker
  - i. Add / remove / edit
    - Per transaction
    - Recurring setup
  - ii. Different Account category
    - Saving / Credit Card expenses / Cash
- b. Search for expenses with the keyword
  - i. Example category, description
  - ii. Show the list of expenses for Today.
    - Can it be configurable? (we can consider)
- c. daily/weekly/monthly report (pdf)
  - i. Pdf generator or Excel format
  - ii. Custom tips saving (based on the spending/saving)

Remarks:

3. Booking/reservation hotel
  - a. Able to search/book an hotel via the cli.
  - b. Users will be able to book/cancel/update their own bookings.
    - i. Optional: Add on room services, add more days, check in and check out.
  - c. History of your bookings
    - i. Your search history too.

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**Remark: require hotel's API or some api to use. (not recommended)**

Question 1: Product name  
NUSExpensesHelper.

Question 2: Target user profile  
NUS TIC4001 Classmate (Students/Lecturer)

### Question 3: Value proposition

1. No internet access.
2. Secured tracker cause only on your PC.
3. Generating Reports (Open in Excel).
4. One glance view of weekly/monthly spending.

User stories in trello.

<https://trello.com/b/2290RLsD/nusexpenseshelper>

AB3 SAMPLE:

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  - [Adding a person: add](#)
  - [Listing all persons : list](#)
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# NUS Expenses Helper/Tracker User Guide

## Introduction

Nus Expenses Tracker is an app for managing expenses, optimized for use via a Command Line Interface (CLI) while still having the benefits of a Graphical User Interface (GUI).

-- Let me think of a cooler intro -- will update

## Features for v1.0

- Add Expenses (add) (Zi Wen)
- View Expenses (view) (Lai Ping)
- Delete Expenses (delete <IDX>) (Li Yi)
- Search with Keyword to find the expenses record. (SEARCH <keyword>) (Adi)
- Show Total Expenses Incurred - (show) (Olivier)

### Add a expense entry: add

Add an expense entry with description, amount and optionally specify the date

Format: add <KEYWORD> \$<AMOUNT> <DATE>[optional]

- Add the record with the <KEYWORD> and <AMOUNT>, these two fields are compulsory
- The third input <DATE> will be optional, if the user enters the date, this expense will be recorded as the date the user entered, otherwise it will be default today's date.

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Examples:

Add Lunch \$4 returns

Record (1. Lunch \$4.00) has been successfully added.

### Search for a expense entry: **search**

Search for any expense entries containing the given keyword.

Format: **search** <KEYWORD>

- The search is case-insensitive. E.g. **wonton** will match **Wonton**
- The order of the keywords does not matter. E.g. **Wonton** will match **Fried Wonton**
- Only the description is searched.
- Only full words will be matched. E.g. **Wonton** will not match **Wontons**
- Expenses matching at least one keyword will be returned.(i.e OR search). E.g. **Wonton** will return **Fried Wonton \$2.50, Wonton Soup \$5.50**

Examples:

Search **pau** returns

1. 2020-09-16 char siew pau \$2.50
2. 2020-09-17 chicken pau \$400.00
3. 2020-09-18 veggie pau \$800.00

### Show total expenses: **show**

Calculate the total amount spent from all the expenses that user entered.

Format: **show**

Examples:

**show** returns **The amount you spent till today is \$42000**

### Delete expenses record: **delete id**

Delete the expense record by unique ID number.

Format: **delete** 1

- **Delete** the record with the specific **ID** entered
- The **ID** will be generated according to the index position
- The **ID** must be a positive integer **1,2,3,...**

Examples:

**delete** 1 returns

**Record (1.Lunch \$4.00) has been successfully deleted.**

When user want to delete the report

### View expenses record : `display`

To display all data user entered when the user key display

Format : `display`

- Display according to sequence user input. The first entered will display first.
- Go through ArrayList and print out

Examples :

<sn> <Date> <Description> <Amount>

1. 2020-09-16 Dinner \$5.00

2. 2020-09-17 Breakfast \$800.00

\*Sn is an auto increment.

## Introduction

Nus Expenses Tracker is an app for managing expenses, optimized for use via a Command Line Interface (CLI) while still having the benefits of a Graphical User Interface (GUI).

- Quick start
- Features for v1.0
  - Add Expenses
  - Search with Keyword to find the expenses record
  - Show Total Expenses Incurred
  - Delete Expenses
  - View Expenses
- FAQ
- Command summary

## Quick Start

1. Ensure you have Java 11 or above installed in your Computer.

2. Download the latest addressbook.jar from [here](#).

3. Copy the file to the folder you want to use as the *home folder* for your ExpensesTrackerApp.

4. Double-click the file to start the app. The GUI like the below should appear in a few seconds. Note how the app contains some sample data.

<Image>

5. Type the command in the command box and press Enter to execute it.

Some example commands you can try:

- **add**: Add an expense entry with description, amount and optionally specify the date
- **search**: Search for any expense entries containing the given keyword.
- **show**: Calculate the total amount spent from all the expenses that user entered.
- **delete1**: Delete the expense record by unique ID number.
- **display**: To display all data user entered when the user key display
- **exit**: Exits the app.

6. Refer to the [Features for v1.0](#) below for details of each command.

## Features for v1.0

### Add an expense entry: **add**

Format:

add <KEYWORD> \$<AMOUNT><DATE> [optional]

- Add the record with the <KEYWORD> and <AMOUNT>, these two fields are **compulsory**
- The third input <DATE> will be optional, if the user enters the date, this expense will be recorded as the date the user entered, otherwise it will be default today's date

Sample input/output:

Add Lunch \$4

Record (1. Lunch \$4.00) has been successfully added.

## Search for an expense entry: **search**

Format:

search <KEYWORD>

- The search is **not case-sensitive**. E.g. wonton will match Wonton
- The order of the keywords does not matter. E.g. Wonton will match Fried Wonton
- Only the description is searched
- Only full words will be matched. E.g. Wonton will not match Wontons
- Expenses matching at least one keyword will be returned. (i.e. OR search). E.g. Wonton will return Fried Wonton \$2.50, Wonton Soup \$5.50

Sample input/output:

Search pau

1. 2020-09-16 char siew pau \$2.50

2. 2020-09-17 chicken pau \$400.00

3. 2020-09-18 veggie pau \$800.00

## Show total expenses: **show**

Format:

show

Sample input/output:

show

The amount you spent till today is \$42000

## Delete expenses record: delete

Format:

delete <id>

- Delete the record with the specific ID entered
- The ID will be generated according the index position
- The ID must be a positive integer 1,2,3, (...)

Sample input/output:

delete 1

Record (1. Lunch \$4.00) has been successfully deleted.

## View expenses record: display

Format:

display

- Display according to sequence user input.
- The first entered will display first.



Sample input/output:

display

1. 2020-09-16 Dinner \$5.00
2. 2020-09-17 Breakfast \$800.00

## FAQ

## Command Summary

```
public static final Pattern ADD_COMMAND_FORMAT
    =
    Pattern.compile("(?<description>[^$]*) (?<amount>\\${1}\\d+\\.\\d{2}) (?<date>
    .*)", Pattern.CASE_INSENSITIVE);
```

```

package seedu.duke.commands;

import org.junit.jupiter.api.Test;
import seedu.duke.data.ReadOnlyTransaction;
import seedu.duke.data.TransactionList;
import seedu.duke.utilities.SetupTransactionData;

import java.util.Collections;
import java.util.List;

import static org.junit.jupiter.api.Assertions.assertEquals;

public class SearchCommandTest {
    private SetupTransactionData setupData = new SetupTransactionData();
    private TransactionList transactionList = setupData.loadTransactionData();
    //Expenses list shown to the user recently.
    private List<? extends ReadOnlyTransaction> lastShownList = Collections.emptyList();

    @Test
    public void searchCommand_Test(){
        SearchCommand command = new SearchCommand("chicken");
        command.setData(transactionList, lastShownList);

        assertEquals("1 transactions listed!", command.execute().feedbackToUser);

        SearchCommand command2 = new SearchCommand("rice");
        command2.setData(transactionList, lastShownList);

        assertEquals("3 transactions listed!", command2.execute().feedbackToUser);
    }
}

```

```

Pattern.compile("(?<description>[^$]*)(?<amount>\\${1}\\d+\\.?\\d{0,2})(?<date>\\.*)" , Pattern.CASE_IN
SENSITIVE);

```