

THE TERMINAL APP ASSESSMENT (A1-1) (LEDGER APP)

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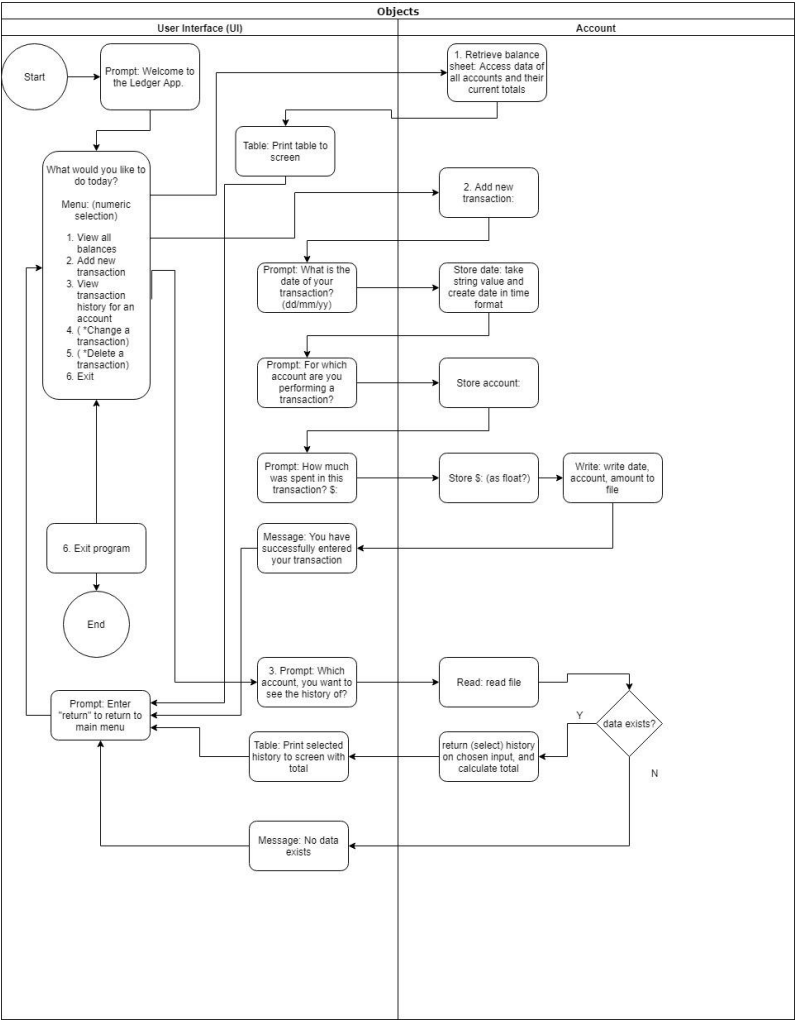
REASON WHY WE DEVELOPED OUR APP.

- In today's world of pay passes and cashless transactions, it can be hard to keep track of our expenditure
- The Ledger App allows a user to (very) simply track expenses for different accounts (Rent, Groceries, Fuel etc...), and provide helpful information about spending habits
- Think 'Notes' for financial transactions

OUR PROCESS

DAY 1: (Part 1)	Day 1: (Part 2)	Day 2:
<ul style="list-style-type: none">● Brainstorm● Design● Scope<ul style="list-style-type: none">○ Functionality○ Add data○ Read all data for a given account○ Read balance sheet for all accounts○ Have a user friendly UI	<ul style="list-style-type: none">● Created Objects<ul style="list-style-type: none">○ Account○ UI● File structures & Paths, 'requires'● Also began some TDD	<ul style="list-style-type: none">● Created the App logic with TDD● Testing● Documentation

User Flow Diagram



DEMONSTRATING OUR
APP TO THE PEOPLE.

```
exit'
menu_choice = @interface.menu( ['What would you like to do today?', 'Enter "1" to enter a new transaction', 'Enter "2" to view
case menu_choice
  when '1'
    transaction_data_input

  when '2'
    account = @interface.prompt('Which account would you like to view history for?')
    @interface.table( account_history( account, @user_data), [ 'Date of Transaction', 'Amount' ] )

  when '3'
    @interface.table( balance_sheet(@user_data) )

  when 'exit'
    return

  else
    @interface.message( "Sorry, your selection was invalid" )
```

FUTURE EXTENSIONS OF THE APP

- Extension with API - Allowing for the recording of live data when you make contactless payments with your smartphone (GPay, Apple Pay) Only real G's use GPay
- Having multiple users or user accounts
- Full CRUD functionality (currently only 'CR')
- Accessibility features
- Case/numeric/spelling detection
- Dual entry accounting (various account types)
- Comparison of expenditure to a provided budget
- Security



DIFFICULTIES

- You can't always make what you want. Client is king.
- TIME!! (dual meaning)
- Learning lots of new things quickly. Information overload!
- Some gems (terminal-table) do not always work the way we want

THRILLS!!

- TDD was a (surprisingly) robust process
- Tools such as Trello are really useful for keeping a project on track and in scope
- Learning on how to build a functioning app.

ETHICAL & SOCIAL CONSIDERATIONS

What are the potential
impacts of the app?

Ethics

- Currently insecure
- Privacy of financial
info

Social Impact

- Debt reduction? (We
hope)
-

QUESTIONS?

THANK YOU