Routinely

A Terminal App

By

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What is Routinely?

In Brief:

Routinely aims to provide a method for users to quickly create and reorder a sequence of events or tasks.

The Long Answer:

Sometimes you need to plan out a series of tasks or events. Usually, the best and quickest way to do this is jot it down on a piece of paper. However, this becomes a problem if that sequence is something you want to refer to later or even refine. You could lose the paper and have to start again, or in the case of reshuffling need to rewrite the list.

All well and good while the list is short, but once it reaches a certain length this becomes a tedious process. Routinely aims to solve this problem by allowing a user to quickly add a name and estimated time for each event and storing the sequence in a routine. This will allow the user to save, edit and even shuffle the sequence of events as they see fit.

The Audience



The Everyday User

Maybe you're somebody trying to work out a morning routine or plan the perfect exercise plan, Routinely's got you.



The Event Organiser

Planning big events and need work out what order things need to happen?
Maybe you're frontrunners running late and you need to shuffle the plan around at the last minute to keep the show running.
Routinely's got you.



The Developer

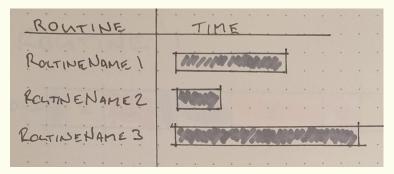
Doing a routine task and need to know how long it'll take? Or starting a new project and want to be sure you don't skip a step? Stop guessing and use Routinely.

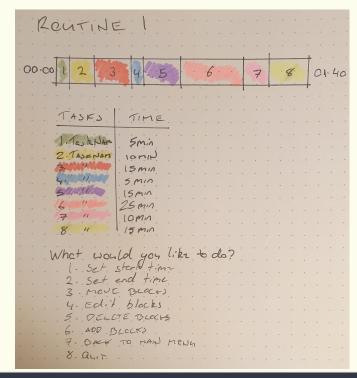
Minimum Viable Product

- Create, Read, Update, and Delete routines
- Quick, Easy and Efficient data entry
- Visual display of routines for fast reference
- Time calculations

Design Process

First Impression Sketches of what the app would look like:



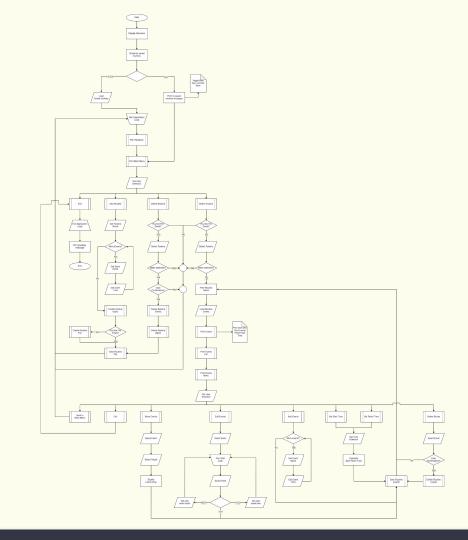


Flowchart

Thought through initial implementations with a flowchart

Not married to the plan, just using it as a way to organise thoughts.

- How the loops work?
- Where are the branches?
- How do the menu's work together?



The Application

Really pleased with how it's coming together.

There's still a few bugs to iron out and a few core features missing, but I think it's coming along well!

Under The Hood

Consists of two classes:

- The Menu
- The Routines

Ideally I would like to further abstract events and have routines stored as separate files.

This is not part of the MVP however.

```
attr accessor :routines
@@prompt = TTY::Prompt.new
def initialize
 @file path = './data/routines.json'
 load data # Populates @routines, therefor must follow in initialize
def run
 system 'clear'
  print welcome
  loop do
   print routines
   main menu options
   system 'clear'
def routines menu
  routine = select routine
  return if routine == 'Cancel'
  looping = true
  while looping
   system 'clear'
    routine.print events
   selection = routines menu options
   process routine menu(routine, selection)
   looping = false if selection == 'Back to main menu'
```

```
lass Routine
attr reader :total time
attr accessor :name
@@prompt = TTY::Prompt.new
@@colors = [ --
def initialize(
   total time = \theta,
   start time = '0000',
   finish time = '0000'
   @name = name
   @events = events
   @total time = total time
   @start time = start time
   @finish time = finish time
  update total time
def save routines
  File.open(@file path, 'w+') # Create new file with read/write permissions
  File.write(@file path, @routines.to json)
def load data
  return unless File.exist?(@file path)
  json data = JSON.parse(File.read(@file path), symbolize names: true)
  json data.each do |obj|
    @routines << Routine.new(
      obj[:name],
      obj[:events],
      obj[:total time],
      obj[:start time],
      obj[:finish time])
```

Challenges

File IO

• A lot of trouble writing and reading objects back in, expected to take maybe 2hrs, ended up spending almost 2 days on it.

Rspec

 Started with TDD, however encountered difficulties with object creation routines early, and have put Rspec on hold.

Colorize

Limited colour options

Still to come

- Tabulated Data Display (Events)
- Add ability to reorder events
- Time calculation methods
- Bug squashing
- Lots of tests!

