T1A3 RUBY APPLICATION

Book Club App

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PROBLEM

I have a book club but struggle to organise and allocate books for the month.
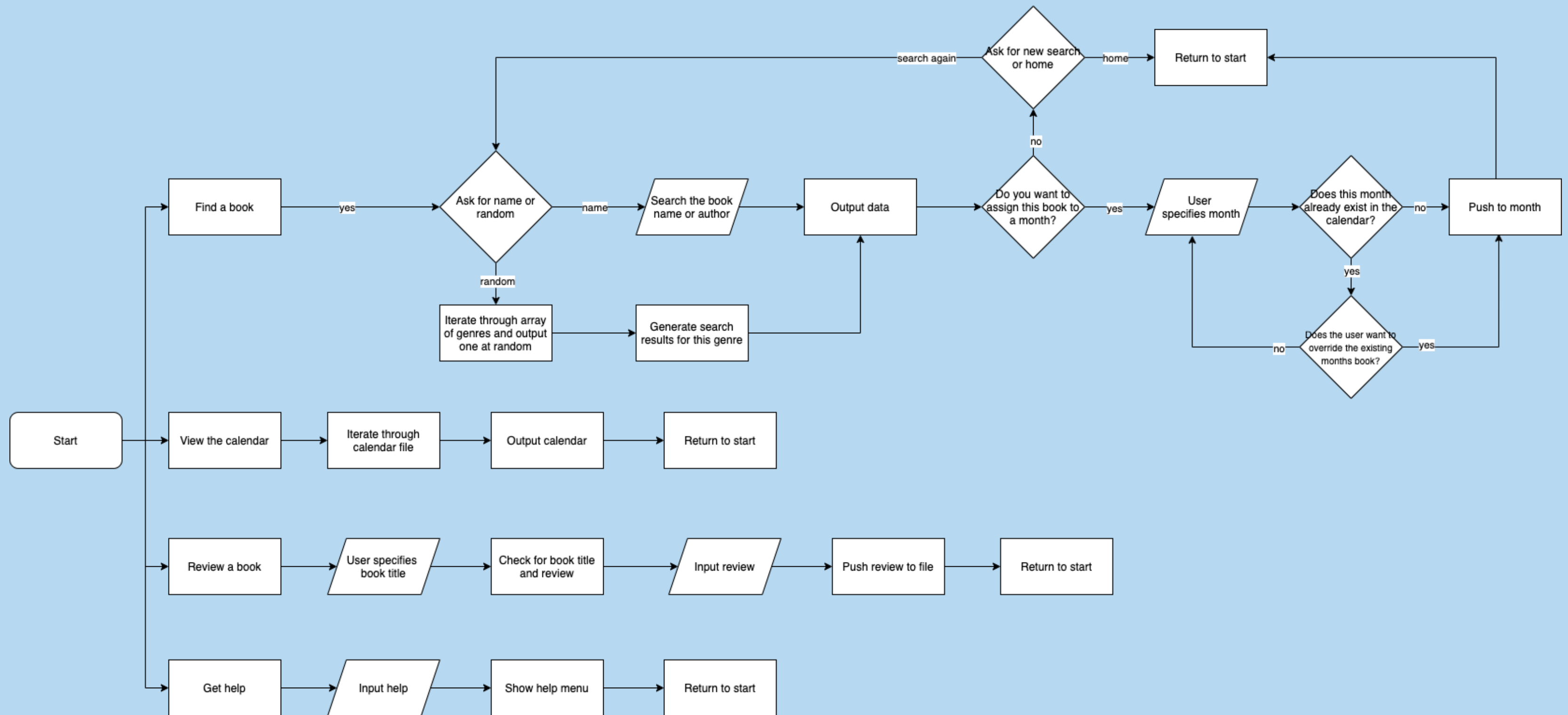
SOLUTION

An app that lets me search through google books by title or author, or randomly chose a book for me. The book can then be allocated to a calendar that I can share with other members.

BOOK BOSOMED WAS BORN

Book-bosomed *(noun):*

A person who always carries a book on their person.

```mermaid
flowchart

Start --> FindBook[Find a book]
Start --> ViewCalendar[View the calendar]
Start --> ReviewBook[Review a book]
Start --> GetHelp[Get help]

FindBook -->|yes| AskNameRandom{Ask for name or random}
AskNameRandom -->|name| SearchBook[Search the book name or author]
AskNameRandom -->|random| IterateGenres[Iterate through array of genres and output one at random]
IterateGenres --> GenerateSearch[Generate search results for this genre]
SearchBook --> OutputData[Output data]
GenerateSearch --> OutputData
OutputData --> AssignMonth{Do you want to assign this book to a month?}
AssignMonth -->|no| AskNewSearch{Ask for new search or home}
AssignMonth -->|yes| UserSpecifiesMonth[/User specifies month/]
AskNewSearch -->|search again| AskNameRandom
AskNewSearch -->|home| ReturnToStart1[Return to start]
UserSpecifiesMonth --> MonthExist{Does this month already exist in the calendar?}
MonthExist -->|no| PushToMonth[Push to month]
MonthExist -->|yes| Override{Does the user want to override the existing months book?}
Override -->|no| UserSpecifiesMonth
Override -->|yes| PushToMonth
PushToMonth --> ReturnToStart1

ViewCalendar --> IterateCalendar[Iterate through calendar file]
IterateCalendar --> OutputCalendar[Output calendar]
OutputCalendar --> ReturnToStart2[Return to start]

ReviewBook --> UserSpecifiesTitle[/User specifies book title/]
UserSpecifiesTitle --> CheckTitle[Check for book title and review]
CheckTitle --> InputReview[/Input review/]
InputReview --> PushReview[Push review to file]
PushReview --> ReturnToStart3[Return to start]

GetHelp --> InputHelp[/Input help/]
InputHelp --> ShowHelp[Show help menu]
ShowHelp --> ReturnToStart4[Return to start]
```

FEATURES

1. Find a book through Google Books API based on either the title, author, or randomly generate one for the user
2. Allocate a book to a month for the book club and have this calendar be sharable
3. Write a review of the book once read and push to the calendar file

CURRENT

- Not super DRY
- But working(ish)
- Outputs top 5 results for a given search, including the book ranking, then shows user which of the 5 is the highest rated
- Used array so user can input a number instead of book title to allocate to month (less room for error)

CURRENT

- Randomised less perfect – created array of genres, one of which gets output at random and searched, 5 best results for 'autobiography' will be output for example
- Outputs chosen title to a selected month in a CSV file
- CSV file needs to be overwritten every time a user wants to change the month allocation

IDEAL

- Everything works
- Proper error handling (heavily reliant on user input)
- Appropriate classes and methods to keep DRY
- Loop whole thing so the app doesn't exit or if a user selects no to an option they can be redirected to the right place
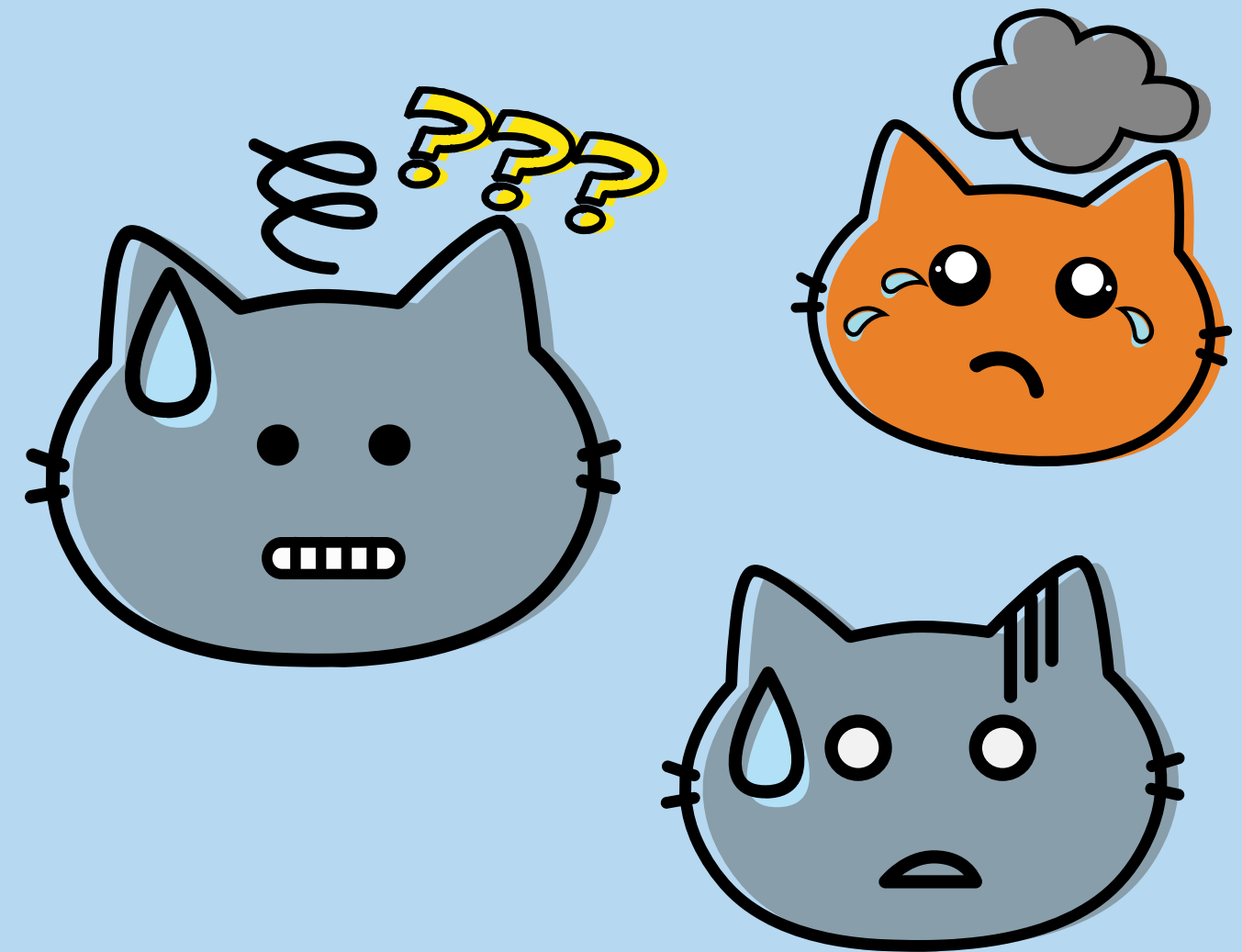- create user login system

REVIEW

Challenges:
- Ruby is hard
- Command line arguments
- DRY code
- When to use a method/class and then how

Favourite parts:
- the 1% of time that it works

REVIEW

Ethical concerns:

- having to use an API key that is visible on GitHub, got an email warning about this

Overall:

- Ruby is hard

APP DEMO