



# Swap4U

## T1A3 - Terminal Application

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A background image showing a person's hand holding a pen and writing on a notepad. The scene is softly blurred, focusing on the text in the foreground.

# About App

- Swap4U is a small application that creates questionnaires where the admin can create questions as needed. It is suitable for use in creating a variety of questionnaires because the application itself can generate questions and answers independently. The application has the ability to create questionnaires in the form of Open Ended Question and Close Ended Question or other forms of questionnaires depending on the application of this user.

# Why development?

- In the past, questionnaires were available in paper form distributed at various locations to ask the opinions of the target groups. The people who distribute the questionnaire will be distributed in the place that is the gathering place of that target audience. Nowadays, creating the same questionnaire is a huge waste and time-consuming process. Because due to many factors example, the current behaviour has changed and people are paying attention to communication devices or social media. Therefore, Swap4U has a direct solution to this problem because it is a small application and is also easy to use. Because no matter how many eras have passed, information from that target audience is essential to many companies and businesses. Because the information is very valuable in today's times, for example doing business or advertising, if the lack of target audience data, there is a very useless opportunity to invest.

# Features

- User System
  - User system is divided into two parts to operate between the admin and general user.
- Quiz & Answer Storage
  - The information entered through the application, whether it be creating a query or user-generated data, is stored in the CSV database.
- Selection Menu [UI]
  - Providing user convenience with a menu system built with TTY:: Prompt Gem.

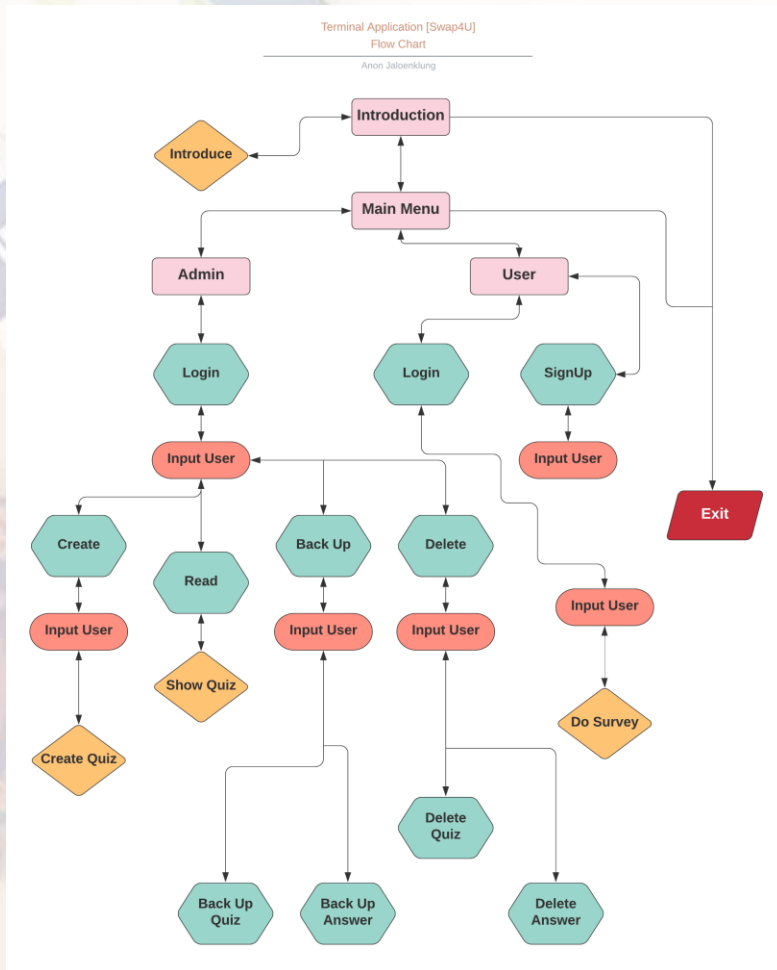
```
Hello Admin User
What would you like to do?
Select an action? (Press ↑/↓ arrow to move and Enter to select)
- Create Survey
  Read Survey
  Back Up Files
  Delete Files
  Logout
```



# Challenges

- Bringing knowledge of multiple coding tools into one application.
- A lot of mistakes you have to encounter when using a variety of tools, often causing errors to make the app unusable.
- Learning something new, such as a combination of complementary tools like gems.

# Flow Chart



# Trello Board

The Trello board is organized into six columns, each representing a different stage or aspect of a project. The columns are: Schedule, Document, Coding in App, GEMS, Presentation, and Issue. Each column contains a list of cards, some with progress bars and due dates.

- Schedule**
  - Step 1 - Create app concept. (Apr 1 - Apr 4)
  - Idea and features approved
  - Step 2 - Github repo created (Apr 3 - Apr 4)
  - Trello board (Apr 4)
  - Create README.md (Apr 4)
  - Step 3 - Presentation (Apr 5 - Apr 7)
  - Step 4 - Coding (Apr 5 - Apr 11)
  - Solve error (Apr 11)
- Document**
  - in Readme.md
  - Content
  - Link
  - Software Development Plan
  - Purpose
  - Features
  - User Experience and Interaction
  - Control Flow
  - Trello board
  - Help Documentation
- Coding in App**
  - Process
  - Introduction
  - Build Title Menu Apps
  - Login - Admin
  - Login - General User
  - Signup - General User
  - Admin Actions
  - Create - Quiz for Admin user
  - Read Quiz in Adminuser
  - Back up and Delete Actions
  - Storage to CSV file
- GEMS**
  - Using gems
  - Require 1
  - Colorize
  - TTY-Prompt
- Presentation**
  - Plan for Presentation
  - Created
  - No presentation
  - COVID-19 transmission and protective measures.
- Issue**
  - Stucks all code
  - False Command to use module
  - Error input user
  - Error some command between the module in Delete part.
  - Cannot back up files.
  - The error between multi menu selection.
  - False display between Introduction and Menu Title.
  - CLI command animation cannot work

# Overview

## Terminal application

```
INTRODUCTION
TIA3
Swap4U Terminal Application
by
Anon Jaloenkung
Select an action? (Press ↑/↓ arrow to move and Enter to select)
- Introduction
  Start to Swap4U App
  Exit
```

```
===== Welcome =====
===== To =====
SWAP4U
By
Anon Jaloenkung
=====
Select an action? (Press ↑/↓ arrow to move and Enter to select)
- Admin
  General User
  Back to Introduction
  Exit
```

The app is divided into two phases:

- In the introduction, tell us how to use the app before entering Swap4U app.
- The second is Swap4U, which is an app that allows users to create questionnaires or take surveys.



# Overview

## Code

```
164         when 1
165             #DoSurvey
166             sleep(0.2)
167             print "\e[2J\e[f"
168             listquestions = []
169             CSV.open("data/quiz/survey.csv", "r") do |csv|
170                 csv.each do |line|
171                     hash = {question: line[0], answerA: line[1], answerB: line[2], answerC: line[3]}
172                     listquestions.push(hash)
173                 end
174             end
175             listanswers = [user[:username]]
176             listquestions.each do |hash|
177                 Adminsay.thenametitleshort
178                 p "-----"
179                 puts " #{hash[:question]}".yellow
180                 puts " #{hash[:answerA]}".cyan
181                 puts " #{hash[:answerB]}".cyan
182                 puts " #{hash[:answerC]}".cyan
183                 p "-----"
184                 puts "Enter your answer".green
185                 input = gets.chomp.downcase
186                 listanswers.push(input)
187                 print "\e[2J\e[f"
188             end
```

This is the main factor of this app: it retrieves the information of the question that the admin creates to show the user and the input to send it back to the CSV database.

# Overview

## Code

This section is a simple combination of several commands, working similarly to composing a .GIF image. This creates a code movement similar to animation.

```

1 class Catrunning
2
3     def self.frame_one
4         puts "
5
6
7
8
9
10
11         s      yh-
12         /      /s
13
14
15
16
17
18
19
20
21
22
23
24
25

```

# Favourite parts

HELLO !

$$y \left( \begin{array}{c} \wedge \quad \wedge \\ \text{---} \\ \bullet \quad \sim \bullet \\ \text{---} \\ \text{---} \end{array} \right) y$$

I am Swap4U cat.

This section introduces the basic operations and techniques needed to use the Swap4U app.

There is one main feature that administrators can do is create a questionnaire, which the app itself already has instructions on when it comes to using that feature.

But in the part of deleting files, it is recommended that you back up the data first so that you can reuse it later.

How to login to the admin system The application has already assigned the user admin.

This is the Admin ID !!

Admin user: adminuser

Password: adminpass

Please remember Admin ID to login to the Admin action feature.

If ready to use Swap4U app, please press Enter

□

My favourite part is the introduction page, which runs some animation-like code before it appears in this window.

# Expected goal



Initially set goals could not be achieved, such as an automatic email sending feature when the admin created a new question. This is due to the ability to not come enough and not learn it in time, which is expected next time will do this feature.





**Thank you**