# Terminal App

By Krish

# Roulette App

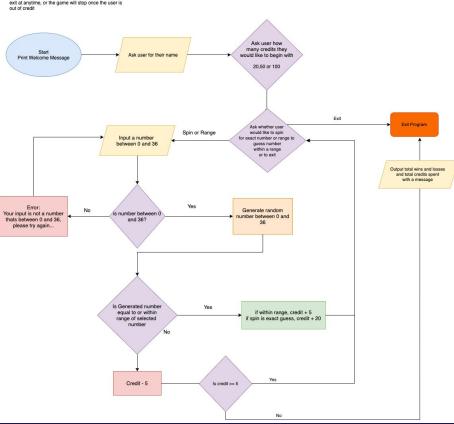
A simple Ruby Terminal Application that acts as a form of entertainment. Similar to Roulette at a casino. Player tries to guess a number and gets rewarded with credits if they are correct.



# FlowChart

#### **Roulette App**

A simple app that allows a user to select how many credits they would like to play, and then gives them an option on whether they would like to guess the exact number or guess within a range of numbers. If the user gets the range correct, they receive 5 credits, if they guess incorrectly for either, they lose 5 credits, if they guess incorrectly for either, they lose 5 credits. The user can call at anytime, or the game will stop once the user is







# App Overview

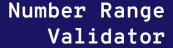
- Allows a user to select how many credits they would like to play with.
- Options are to guess the exact number (spin) or guess within a range of numbers (range).
- Number within the range gets 5 credits, getting the exact number gets 20 credits, incorrect guess for either option, they lose 5 credits.
- The user can exit at anytime, or the game will stop once the user is out of credit.

# **Features**



#### Random Number Generator

generates a random number between 0 and 36



validates whether number entered is within a specific range





#### Number History Viewer

Lists of past generated numbers to guide user in deciding what number to pick next

#### Total Spent

A feature that calculates the total credits spent and displays a corresponding message.



# Gems

#### Colorize

Add meaningful colours to code to make for a better user experience, ie turn code red for error messages.

#### Tty-prompt

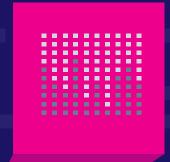
Interactive menu to allow for a better user experience allowing the user to select from a menu rather than needing to type out an input each time.

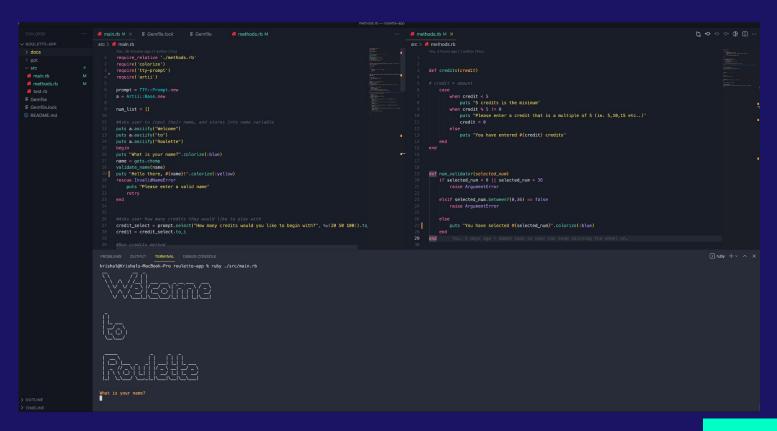
#### artii

Ascii art for welcome message upon application startup to make for a pleasant entrance









```
if input == 'Spin' && rand_num == selected_num
   credit += 20
   congrats
   credit output(credit)
elsif input == 'Spin' && rand_num != selected_num
   credit = (credit.to i) - 5
   unlucky
       input == 'Range' && rand_num.between?(0,12) == true && selected_num.between?(0,12)
       credit += 5
       congrats
       credit_output(credit)
       input == 'Range' && rand_num.between?(13,24) == true && selected_num.between?(13,24)
       congrats
       credit_output(credit)
       input == 'Range' && rand_num.between?(25,36) == true && selected_num.between?(25,36)
       congrats
       input == 'Range' && rand_num != selected_num && rand_num.between?(0,36) == true && selected_num.between?(0,36)
       credit = (credit.to_i) - 5
       credit output(credit)
        "Not a valid input, please try again"
```

Control Flows:
Utilising if/else statements to
validate if user's number is in line
with the randomly generated
number

```
def num_validator(selected_num)
  if selected_num < 0 || selected_num > 36
     raise ArgumentError

elsif selected_num.between?(0,36) == false
     raise ArgumentError

else
    puts "You have selected #{selected_num}".colorize(:blue)
    end
end
```

Methods:
Utilising methods to raise
ArgumentErrors if user enters
incorrect number ie. (a number
outside of 0-36)

```
puts a asciify("Welcome")
puts a.asciify("to")
puts a.asciify("Roulette")
puts "What is your name?".colorize(:blue)
name = gets.chomp
validate name(name)
puts "Hello there, #{name}!".colorize(:yellow)
rescue InvalidNameError
   puts "Please enter a valid name"
credit_select = prompt.select("How many credits would you like to begin with?", %w(20 50 100)).to_i
credit = credit select.to i
credits(credit)
loop do
   if credit < 5
       puts "Sorry you're out of credit, Goodbye..."
       fancy_line
```

- Utilising gems to prettify code.
- Loops to break(end) the program once the user runs out of credit.
- Gets method to ask for user input.
  - Type coercion to convert input data type into an integer.

# Development Process

### Step 1

Read assignment requirements.

#### Step 4

Create a repo for my project on github, and start to write the code.

#### Step 2

Scope out main features and functionality and purpose of App

#### Step 5

Use git commit regularly to keep of track milestones.

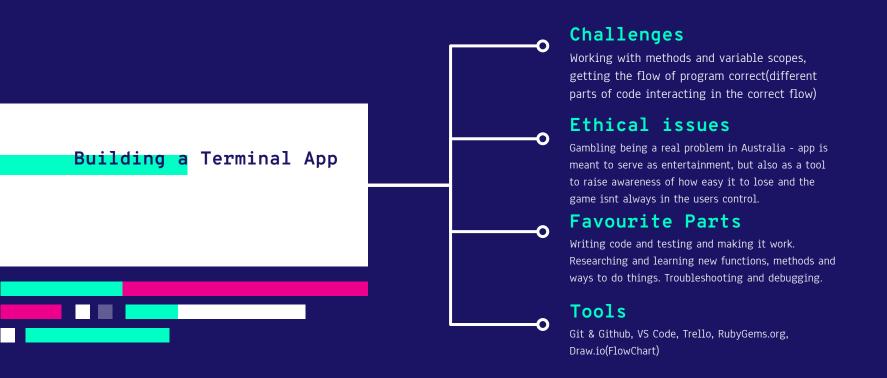
#### Step 3

Trello to plan out tasks and features and order by priority. Use kanban style board to keep track of need to do items in real time.

#### Step 6

Test code constantly to see if it is working as expected.

# Development Process(cont)





# The End