Word game

Terminal Application - Word Guessing Game

Shravani

A Walk - Through

User stories:

- As User, I want to be able to have fun while learning vocabulary
- I want some clues to guess the word
- I should be able to have 3 or 4 attempts to guess the word
- I want to know if I have guessed the word right or not
- I want to be able to check my score
- I want to be able to play the game many times
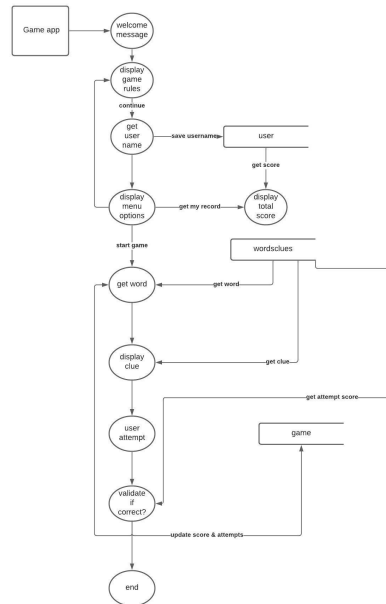- I want to be able to learn new words

Flow Chart

Three classes

- Words and clues - Meta-data
- User class - create user records
- Game class - Actual game code
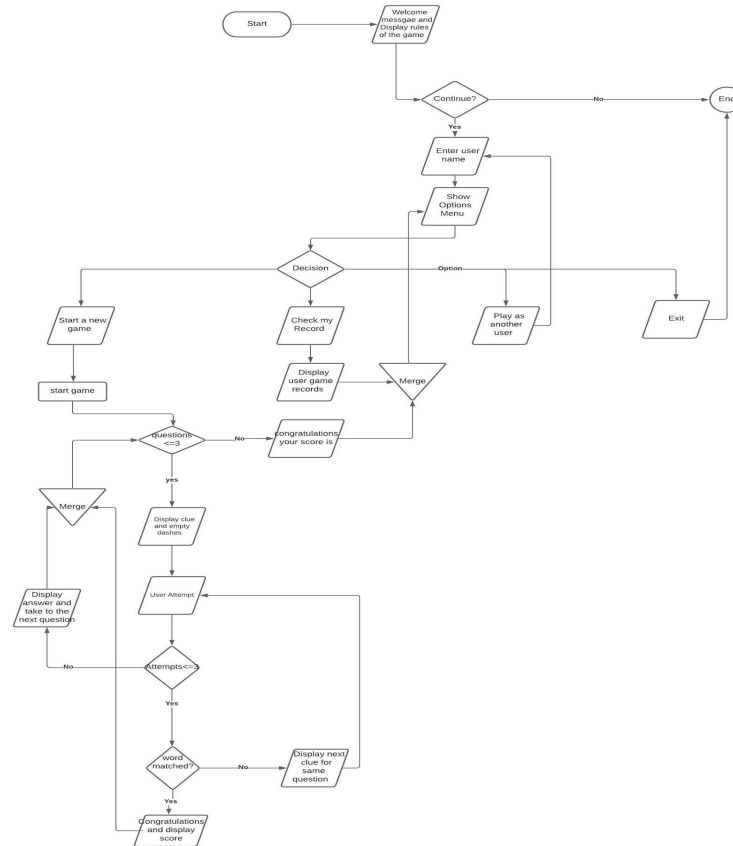
Control flow

Code - classes

Word and clue class has hash of secret words and clues needed to play the game.

Game class holds the logic of the game. Game class iterates over the clues hash and words hash and displays them based on the user answers.

User class collects the user information such as name and score and displays.

User ops class checks, adds, gets, reads, writes and stores the user game information in json.

Code

- Case statements
- Each iterator
- input/output
- Classes and methods
- rspec
  To do:
- Ascii - for welcome and intermediary messages
- Artii - for end of game
- Error handling

```ruby
# Displays welcome message
def welcome
  puts '*************Welcome to Word Game****************'.green.on_black
  puts 'Rules of the game'.yellow.on_black
  puts ' 1. Computer presents a clue and you need guess the word in question....'.cyan.on_black
  puts ' 2. You have three attempts to guess right, fewer the number of attempts higher you score...'.cyan.on_black
  puts ' 3. Every word has three clues and one clue is revealed with every incorrect attempt'.cyan.on_black
  puts ' 4. Score more points when you guess right in the first attempt'.cyan.on_black
  puts 'Do you want to continue (y or n)?'.yellow.on_black
  user_input = gets.chomp.downcase.to_s
  response(user_input)
end

def response(user_input)
  exit = false
  case user_input
  when 'y'
    user = user_name
    user_object = User.new(user, 0)
    menu(user_object)
  when 'n'
    exit = true
  else
    puts 'invalid input'.light_red.on_black
    welcome
  end
  exit
end
```

Features

- ➢ Welcome screen
- ➢ User_input
- ➢ Menu options
  - ○ Start game
  - ○ Check your score
  - ○ Play as another user
  - ○ Exit game
- ➢ Colorize Gem, Ascii art generator
- ➢ Track score

Working on:

- ➢ Database to store user's name, date played and game score

Welcome screen

```
*************Welcome to Word Game*****************
Rules of the game
 1. Computer presents a clue and you need guess the word in question....
 2. You have three attempts to guess right, fewer the number of attempts higher you score...
 3. Every word has three clues and one clue is revealed with every incorrect attempt
 4. Score more points when you guess right in the first attempt
Do you want to continue (y or n)?
y
Enter your name
nikki
```

Welcome screen greets the user and presents the rules of the game.

Menu

Menu screen


```
 Hi Nikki
Press 1. To start the game
Press 2. To check your score record
Press 3. To play as another user
Press 4. To exit
1
Question: 1 Clue: 1
Move quickly

_   _   _   _
please enter your answer....
```

The Menu option presents user with 4 options.

Start Game

```
That is a corrcet answer!!  You scored 20 points.  Your total game score is 20
Here is your next question...
Question: 2 Clue: 1
To introduce

_ _ _ _ _ _
please enter your answer....
█
```

Secret word and clue is presented to the player when player chooses 1 option.

Player has three chances to guess the word right

```
Hi Nikki
Press 1. To start the game
Press 2. To check your score record
Press 3. To play as another user
Press 4. To exit
1
Question: 1 Clue: 1
Move quickly

_ _ _ _ _
please enter your answer....
vcbfv
sorry.. that was a wrong answer !!
Question: 1 Clue: 2
Brisk of swift

_ _ _ _ _
please enter your answer....
cxbv
sorry.. that was a wrong answer !!
Question: 1 Clue: 3
fast like some transit

_ _ _ _ _
please enter your answer....
█
```

Other Menu options

At the end of each game user's game score and total score is displayed.

```
Congratulations!! You have completed this game
 Your game score is 20 and total score is 510
Press 1. To start the game
Press 2. To check your score record
Press 3. To play as another user
Press 4. To exit
```

Option 2 : Check Score

```
Press 1. To start the game
Press 2. To check your score record
Press 3. To play as another user
Press 4. To exit
2
Hi Nikki your total score is 510
Press 1. To start the game
Press 2. To check your score record
Press 3. To play as another user
Press 4. To exit
```

Option 3 : Directs the user to Welcome screen

A review of your development/build process

Development process:
- Requirements - user stories
- Flow chart and control flow
- Build & test
- Git commit

Challenges:
- Classes and variables
- Json

Improvise:
- Ascii
- Tty prompt
- Dictionary API

Favourite part:
- Game logic
- Colorize Gem