

Terminal Application Beer Menu

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- Displays a welcome message incl. title, welcome, and statement to choose a beer
- Menu options: displays beer menu with 3 beers
- User input: prompts user for an order
- User input: prompts user for quantity of selected beer
- Displays goodbye message
- Exit option: user can quit menu
- Error handling: user is helped with invalid input

```

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Welcome to this BEER MENU

Choose a delicious beer from the menu or exit the menu

+-----+
|                     BEER MENU                     |
+-----+-----+
| Beer on tap                                           | price $ |
+-----+-----+
| 1. Bentspoke's Crankshaft IPA                        | 12      |
| 2. Young Henry's New Towner Australian Pale Ale     | 8       |
| 3. Philter Brewing's Red Session Ale                | 10      |
+-----+-----+

3
How many would you like?
2
Here is your bill: $20
Enjoy your beer!

```

```
Welcome to this craft beer menu, choose a delicious beer from the menu or exit the menu
1. Bentspoke's Crankshaft IPA: $12
2. Young Henry's New Towner Australian Pale Ale: $8
3. Philter Brewing's Red Session Ale: $10
exit
Thanks for visiting, John. Your bill is $0
malanchristiansen@Malans-MacBook-Pro src %
```

```
Choose a delicious beer from the menu or exit the menu
1. Bentspoke's Crankshaft IPA: $12
2. Young Henry's New Towner Australian Pale Ale: $8
3. Philter Brewing's Red Session Ale: $10
5
Invalid choice, please type 1,2,3 or exit to leave the app
```

An overview of the terminal app

- Example of user typing 'exit' to exit the app. The gem `colorize` is used to make the text green for color coding.
- Example of user typing the wrong value, 5. The user is prompted with a message giving the correct values to choose from. The gem `colorize` is used to make the text red for color coding.

The main features and overall structure of the *app*

Welcome
message

Menu
options

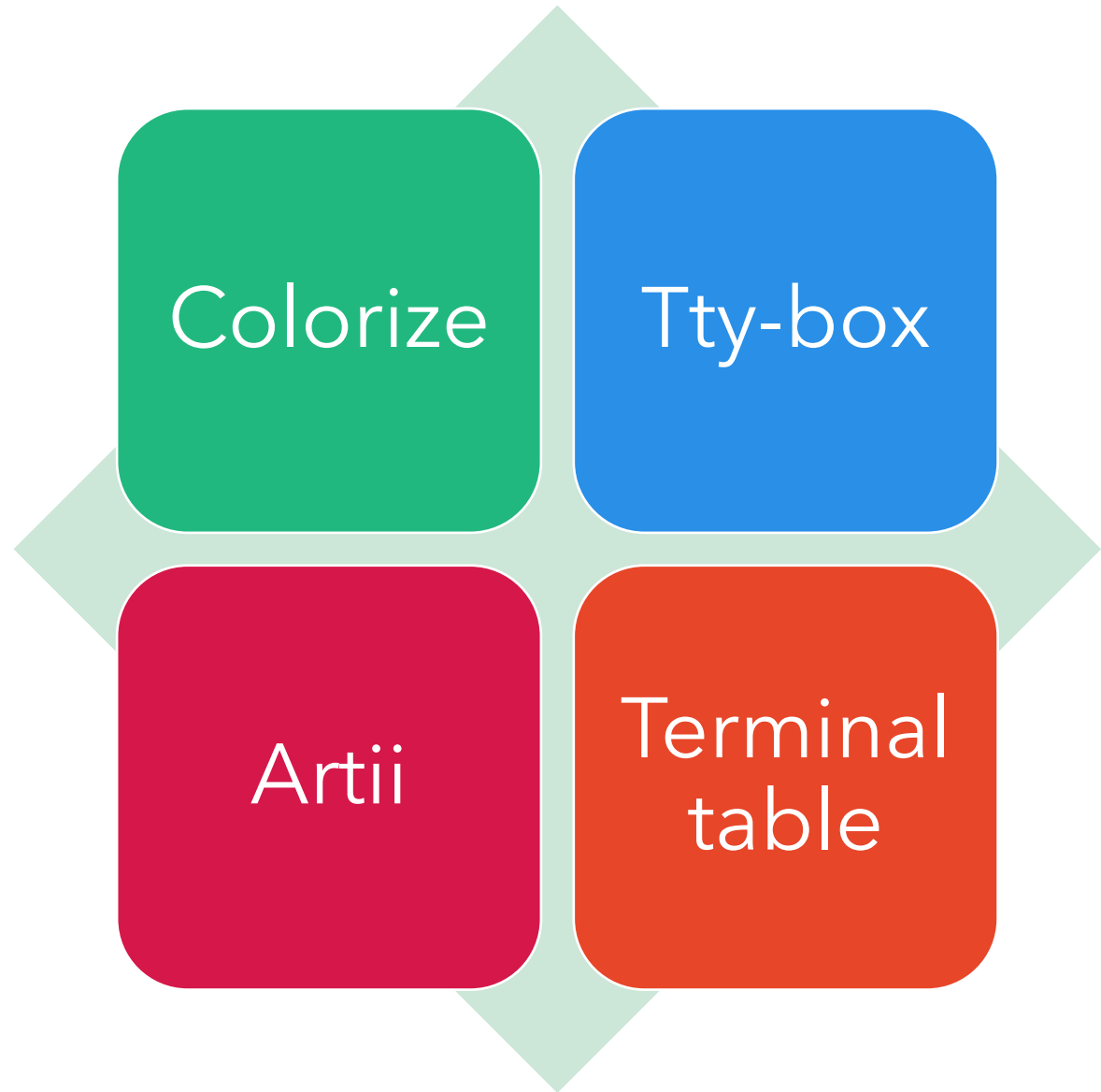
User Input

Calculation
of final bill

Goodbye
message

Exit option

Gems being
used



An overview of the code

- Using a while loop for user input:
 - If the user 1, 2, or 3, the app continues and asks the user next question.
 - If the user types exit, the user exits the app and is displayed a goodbye message with a bill of \$0 before the app stops running.
 - If user types an invalid value, e.g. a number that is not on the menu, the user is displayed a message that tells which numbers the user can choose or if the user wants to exit.

```
ordering = true
while ordering
  #get user input
  user_choice = gets.chomp.to_i

  case user_choice
    when 1,2,3
      return customer.place_order(user_choice)
    when 0
      ordering = false
      puts "Thanks for visiting! Your bill is ${customer.bill}".colorize(:green)
    else
      puts "Invalid choice, please type 1,2,3 or exit to leave the app".colorize(:red)
    end
  end
end
```

An overview of the code

- Created the class CustomerOrder
- Notice the beer menu is created in a hash
- To display the hash in a terminal table, the hash is added to the rows

```
class CustomerOrder
  attr_reader :bill, :name
  def initialize(name)
    @name = name
    @bill = 0
  end
  def welcome_msg
    "Choose a delicious beer from the menu or exit the menu".colorize(:yellow)
  end
  def menu
    menu_items = {"1. Bentspoke's Crankshaft IPA" => 12, "2. Young Henry's New Towner Australian Pale Ale" => 8, "3. Philter Brewing's Red Session Ale" => 10}
    # update the menu list (contains item number and price) with the right price if the menu items are updated otherwise CODE WILL NOT WORK
    @menu_list = {1 => 12, 2 => 8, 3 => 10}
    menu_items.each do |item, price|
      "#{item}: ${price}"
    end
  end
  def get_item_price(user_choice)
    @item_price = @menu_list[user_choice]
  end
end
```

```
rows = customer.menu
table = Terminal::Table.new :title => "BEER MENU", :headings => ['Beer on tap', 'price $'], :rows => rows
puts table
```

Error handling

```
def get_quantity
  puts "How many would you like?".colorize(:blue)
  begin
    @quantity = gets.chomp.to_i
    if @quantity == 0
      raise TypeError
    end
  rescue
    puts "Please type a number greater than 0"
    retry
  end
end
```

- Error handling is being used when the app prompts the user for quantity. If the user types 0 or a string it is converted to an integer and a message is displayed to let the user retry to type a correct value.

Test Driven Development

- Before programming the app, I used test driven development (TDD) to aim for a bug free app
- I set up test cases for the features of the app
- I modified the code in order to pass the tests I had set up
- I used rspec for TDD

```
require_relative "../customer_order.rb"
require 'colorize'

describe CustomerOrder do
  before(:each) do
    @customer = CustomerOrder.new("John")
  end
  it "instance must have a readable name" do
    expect(@customer.name).to eq("John")
  end
  it "displays welcome message" do
    msg = "Choose a delicious beer from the menu or exit the menu".colorize(:yellow)
    expect(@customer.welcome_msg).to eq(msg)
  end
  it "display the menu" do
    menu = {"1. Bentspoke's Crankshaft IPA" => 12, "2. Young Henry's New Towner Australian Pale Ale" => 10, "3. Brewing's Red Session Ale" => 10}
    expect(@customer.menu).to eq(menu)
  end
  it "get price on beer based on user choice" do
    @customer.menu
    user_choice = 1
    expect(@customer.get_item_price(user_choice)).to eq(12)
  end
  it "should get the quantity" do
    expect(@customer.get_quantity).to be > 0
  end
  it "should calculate the final bill" do
    @customer.menu
    user_choice = 1
    final_bill = @customer.get_item_price(user_choice) * @customer.get_quantity
    expect(@customer.calculate_bill).to eq(final_bill)
  end
end
```

Questions?

