

# Cassandra

A robot fortune-teller

# Process

- Had 2 versions: basic with minimum functionality and extended with many features.
- Writing the main logic
- Refactoring with classes and methods (TDD)

# Favourite parts

- Using gems
- TTY prompt: gets rid of the validation issue
- TDD: love/hate relationship, helped a lot with breaking down problems
- Work with API-s: new, exciting and easy

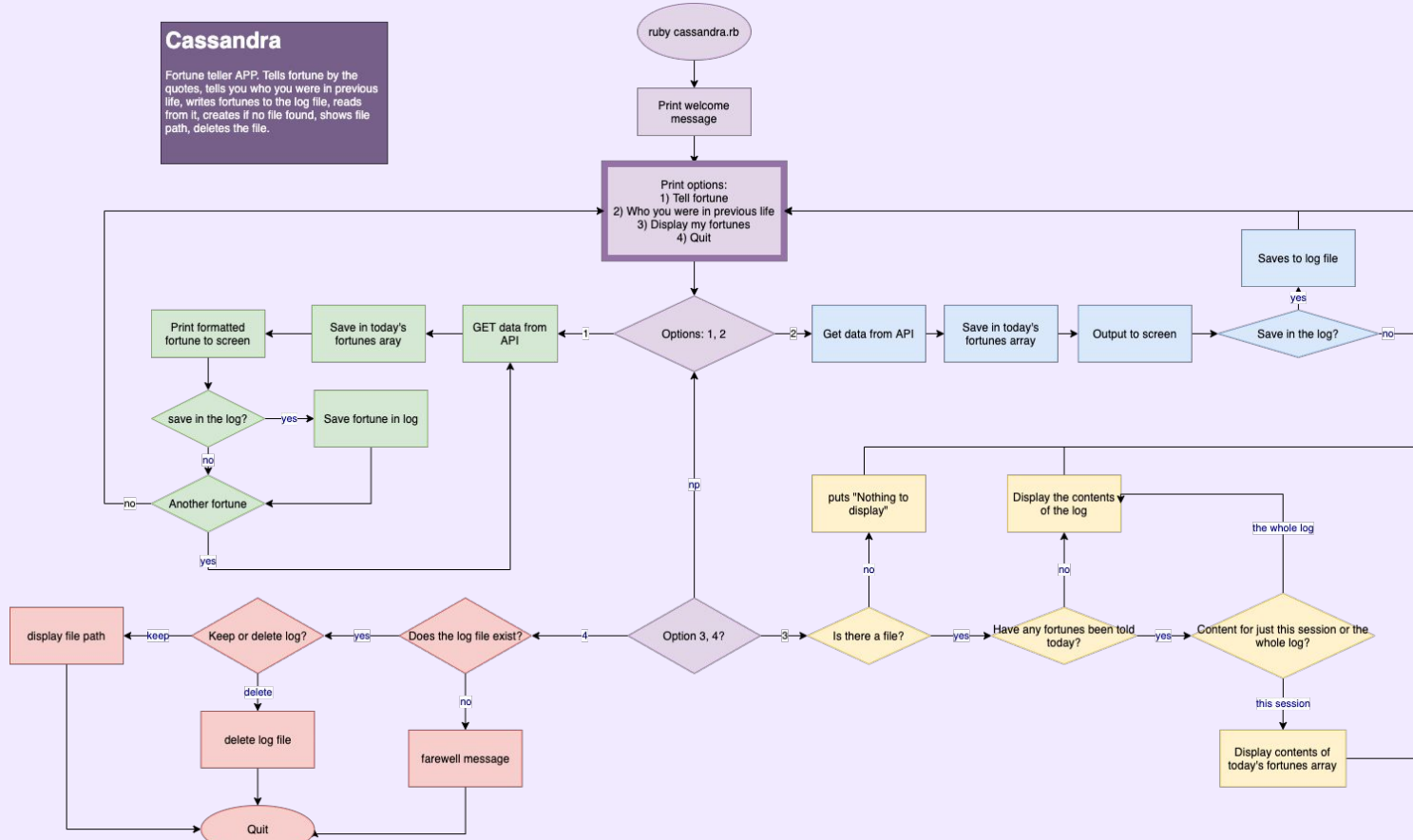
# Challenges / what I wish I did differently

- **Choosing** what to do: focusing on what I can not do instead of what I can
- Didn't use **TDD** approach right away
- Figuring out what I wanted tests to do and writing **GOOD functional tests** (still not there)
- Neat and readable code
- Making the presentation under 10 min 🙄

# Flowchart

## Cassandra

Fortune teller APP. Tells fortune by the quotes, tells you who you were in previous life, writes fortunes to the log file, reads from it, creates if no file found, shows file path, deletes the file.



# Data structures: Classes

- **FortuneTeller**

- initializes with a name
- user interaction, including pauses, progress bar
- gets fortune from the API/other method and returns it

- **Log**

- initializes with a file path
- all file handling: read, write, delete, create if none found, show file path.
- has an array of current session's fortunes.

- **PreviousLife**

- added later on
- should probably be a module
- has 1 method that fetches data from API, parses it into a table and returns it

# Testing

- Rspec
- Suite of 27 automated tests for classes
  - After removing .defined? tests for the methods that have other tests
- Extensive manual testing

Some features



# “What does my future hold”

- selected from the main menu
- a GET method inside FortuneTeller class getting and parsing a random quote from Quotable API
- Outputs a formatted string, styled with tty-box and rainbow
- Inside loops: save it in the log, have another go

```
What can I do for you?  
~ What does my future hold  
Who was I in past life  
Display my fortunes  
Bye Cassandra!
```

```
class FortuneTeller  
  include HTTParty  
  base_uri "api.quotable.io/"  
  
  def tell_fortune()  
    fortune = self.class.get('/random').parsed_response["content"]  
    return "\n#{fortune}"  
  end
```

```
The best way out is always through.
```

# Past lives

- Handled with PreviousLife class with method for getting and parsing API data
- FortuneTeller uses it in .tell\_previous\_life method
- Outputs a table, styled with terminal-table and rainbow

```
include HTTParty
base_uri "pipl.ir/v1/"

def display_previous_life
  person_hash = self.class.get('/getPerson').parsed_response["person"]
  rows = []
  rows << ['First name', person_hash["personal"]["name"]]
  rows << ['Last name', person_hash["personal"]["last_name"]]
  rows << ['Age', person_hash["personal"]["age"]]
  rows << ['Birth place', person_hash["personal"]["country"]]
  rows << ['Partner\'s name', person_hash["personal"]["father_name"]]
  rows << ['Marriage', person_hash["marriage"]["married"]]
  rows << ['Eye color', person_hash["personal"]["eye_color"]]
  rows << ['Height', "#{person_hash["personal"]["height"]} m"]
  rows << ['Weight', "#{person_hash["personal"]["weight"]} kg"]
  rows << ['Profession', person_hash["work"]["position"]]
  rows << ['Salary', "#{person_hash["work"]["salary"]} per month"]
  table = Terminal::Table.new :rows => rows
end
```

```
def tell_previous_life()
  fortune = PreviousLife.new.display_previous_life()
  return fortune
end
```

```
+-----+
| First name | Nady |
| Last name  | Foster |
| Age        | 43 |
| Birth place | Germany |
| Partner's name | Krysta |
| Marriage    | true |
| Eye color   | Blue |
| Height     | 1.48 m |
| Weight      | 32 kg |
| Profession  | Doctor |
| Salary      | $5.000 per month |
+-----+
```

# File handling with Log class

- Read and create file if none found
- Write to file (with a formatted date and time)
- Delete file
- Show file path

```
def read_from_file
  begin
    fortunes = File.readlines(@file_path).map{|fortune| fortune.strip}
  rescue
    puts "Looks like you don't have any saved fortunes yet. Creating your personal Fortunes Book.\n"
    File.open("./logs/fortunes-from-cassandra.txt", "w") {|file| file.write("")}
    fortunes = @todays_fortunes
  end
end
```

```
def write_to_file(fortune)
  File.open(@file_path, "a") {|file| file.write("\n\n#{Time.now.strftime(
"%d %B, %Y %H:%M")}\n#{fortune}") }
end

def delete_file
  File.delete(@file_path)
end

def show_file_path
  File.expand_path(File.dirname(@file_path))
end
```

# Command line arguments

- 4 options: help, file path, name and version
- -h parses the readme file with tty-markdown and displays it in customized format
- -p and -n pass the second argument as a variable to the programme using flag, \*rest = ARGV

```
when '-h'  
  parsed = TTY::Markdown.parse_file("../README.md", theme: {  
    em: :bright_cyan,  
    header: [:bright_magenta, :bold],  
    hr: :bright_cyan,  
    link: [:bright_cyan, :underline],  
    list: :bright_cyan,  
    strong: [:bright_cyan, :bold],  
    table: :bright_blue,  
    quote: :bright_blue,  
    image: :bright_black,  
    note: :bright_cyan,  
    comment: :bright_black  
  })  
  puts parsed  
  exit
```

```
when '-p'  
  file_path = Log.new(rest[0])  
when '-n'  
  username = rest[0]
```

# Exception handling

- Separate class of a Validation error with custom message. Raised in the main loop “else” statement, although TTY-prompt eliminated the need for it
- Rescue StandardError in the main loop

```
class ValidationError < StandardError
  def message
    return "\nYou should be very clear while talking to
    spirits! Please input the valid option"
  end
end
```

```
rescue
  puts "\nThe future is unclear. Try again later."
  exit
end
```

Live demo

