# **Bank Smart Terminal App**

A simple and fun bank app

Duong Pham



#### **Core Functions**

Login

Select Account

Deposit

Withdraw

Transfer

Recommended Places

# Technical Overview

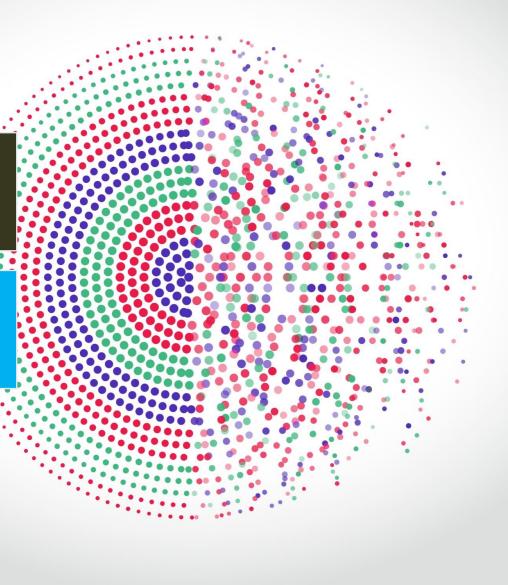
Account Class

User Class

Database Class

TTY::Prompt Gem

Google Places Gem Colorize Gem



#### Account Class

id

name

balance

userld

```
getId getName

getBalance getUserId

deposit withdraw
```

```
"id": 1,
 3
         "name": "Saving Acount",
         "balance": 765,
         "userId": 1
 6
 8
         "id": 2,
 9
         "name": "Transaction Acount",
10
         "balance": 780,
11
12
         "userId": 1
13
14
         "id": 3,
15
         "name": "Mortgage Acount",
16
         "balance": 65000,
17
18
         "userId": 1
19
```

#### User Class

id

nam<u>e</u>

username

initialize

getld

getName

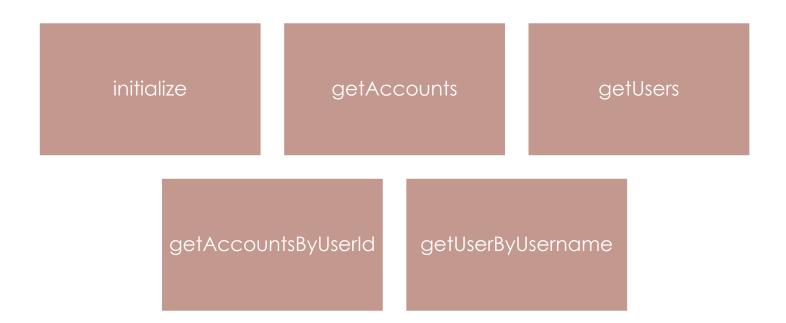
getUsername

```
#initialize all objects in User
def initialize(id, name, username)
    @id = id
    @name = name
    @username = username
end
# Get the id of the user
def getId
    return @id
end
#Get all the name object
def getName
    return @name
end
#Get all the username object
def getUsername
    return @username
end
```

### Database Class

@accounts

@users



**FUNCTIONS** 

**ATTRIBUTES** 

## TDD – Test Driven Development

```
require_relative "../account.rb"

describe Account do
    it "deposit adds to balance" do

# Create a new account for us to test
    acc = Account.new(1,"My Account",999,1)

acc.deposite(1)

expect(acc.getBalance).to eq(1000)
end
```

Test 1

```
it "withdraw removes from balance" do
    acc = Account.new(1,"My Account",999,123)

acc.withdraw(1)

expect(acc.getBalance).to eq(998)
end
```

Test 2

## TTY::Prompt Gem

```
while show_menu_3 == true

# This is the account a user then selects
account = nil

selected_account_name = prompt.select("Please select one of your accounts:",
account_options)
```

CODE

Hi Vicky Pham. Welcome to Bank Smart.
Please select one of your accounts:
Saving Acount

Transaction Acount Mortgage Acount Exit

## Google Places Gem

```
# This function securely gets the API key needed to talk
def getGoogleApiKey
    return File.read("../google-maps-key.txt").to_s
end

# Here we get the key using the secure function
googleMapApiKey = getGoogleApiKey

# Create a client to make calling the Google Places API
gmc = GooglePlaces::Client.new(googleMapApiKey)
```

I found these places, where do you want to go...

Chinatown Cafe at 38-41 Moonta St, Adelaide SA Sunny's Pizza at 17 Solomon St, Adelaide SA 500 Get Sliced at 106A Hindley St, Adelaide SA 5000 Pizza infinity at Unit2/160 Hampstead Rd, Broad V Spot Pizza Bar at 385 Magill Rd, St Morris SA Kako Pizza at 224A Prospect Rd, Prospect SA 508

RESULT

CODE

## Colorize Gem

```
# Show the welcome banner
puts display_ascii_art.red
```

CODE

# Challenges

- Not sure where to start!... Lots of data and classes
- Unit testing is hard when you don't know what you want
- Error handling
- Multiple Menus and looping
- Deciding on a color!
- Meeting the deadline

#### Ethical Issues

- Money Laundering check
- Responsible lending

#### Favorite Part!

- Coding and make app to work
- Use Gem to make things sparkly
- Use loops to make menu come back each time user exit
- Learn to use Google places gem and connect to a real API to find places.

# Thank you!

# Question?