T1A3: Terminal Application

Theo Marentes

Human Resources Manager

```
HUMAN RESOURCES MENU
[1] Search employees
[2] Edit employee
[3] Add new employee
[4] Delete employee
[Enter anything else to exit]
```

Application Features

Search Employees

EMPLOYEE SEARCH OPTIONS

- [1] Search by name
- [2] Search by email
- [3] List all employees
- [4] Go back
- [Enter anything else to exit]

Enter your selection:

Export Search To CSV

Dwight Schrute, dwight.schrute@gmail.com, sales, 87000 Angela Martin, angela.martin@gmail.com, accounting, 72000 Meredith Palmer, angela.martin@gmail.com, relations, 74000

Type 'Yes' to export as csv, enter anything else to skip: yes CSV Created 'export.csv'

Edit Employee

EMPLOYEE EDIT OPTIONS

[1] Find by name

[2] Find by email

[3] Go back

[Enter anything else to exit]

Enter your selection:

Add Employee

Enter a name: Michael Scott

Enter an email: michael.scott@gmail.com

Enter a department: manager

Enter a salary: 105000

Delete Employee

EMPLOYEE DELETE OPTIONS

[1] Delete by name

[2] Delete by email

[3] Go back

[Enter anything else to exit]

Enter your selection:

Code Overview

Interface Navigation

```
match option:
    case 1: # search employees...

case 2: # edit employee...

case 3: # new employee...

case 4: # delete employee...
```

Interface Navigation

```
try:
     option = UserInput.main menu selection()
except ValueError:
                                                     match option:
     print("Closing application")
                                                         case 1: # search employees...
     break
                                                         case 2: # edit employee ...
def main_menu_selection() -> int:
                                                         case 3: # new employee ...
    selection = int(input("Enter your selection: "))
   if selection in (1, 2, 3, 4):
                                                         case 4: # delete employee ...
       return selection
   else:
       raise ValueError
```

List All Employees

Export Search To CSV

HTTP Request

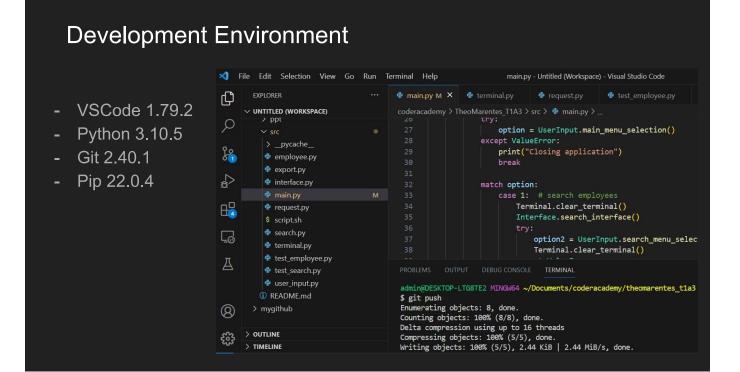
```
def get_quote():
    data = requests.get('https://api.api-ninjas.com/v1/quotes?
        category=inspirational', headers={'X-Api-Key': 'r/
        EG6kiJC3Rc5V7pwcXsWQ==321MFqColfB9oTck'}).json()
    return(data)
```

Time Module

```
local = time.localtime()
    local_hours = local.tm_hour
    local_mins = local.tm_min
    local_year = local.tm_year
    local_month = local.tm_mon
    local_day = local.tm_mday
Time: {local_hours}:{local_mins} - Date: {local_day}/{local_month}/{local_year}
```

Development Process

Initial Steps 1. Create trello board 2. Create github repository 3. Connect git 4. Create initial files



Development Challenges

```
for i in range(len(data)):
    list_data = []
    for j in range(0,4):
        list_data.append(data[i][j])
    writer.writerow(list_data)
```

Development Challenges

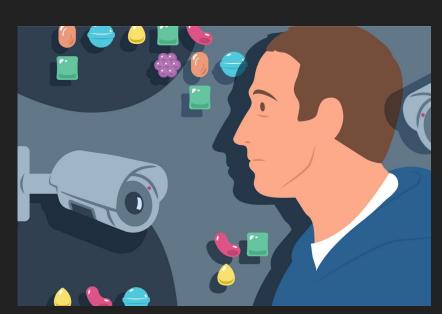
```
if python -c "import requests" &> /dev/null; then
    echo 'Requests is already installed.'
else
    echo 'Requests is not installed. Type "Y" to install recread user_input
    if [ "$user_input" == "Y" ] || [ "$user_input" == "y" ]
    then
        pip install requests
    fi
fi
```

Development Challenges

```
def get_quote():
    data = requests.get('https://api.api-ninjas.com/v1/
    quotes?category=inspirational', headers={'X-Api-Key': 'r/
    EG6kiJC3Rc5V7pwcXsWQ==321MFqColfB9oTck'}).json()
    return(data)
```

Ethical Issues

Privacy and Data Protection
Informed Consent
Accessibility and Inclusivity



Favourite Part

Coding

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