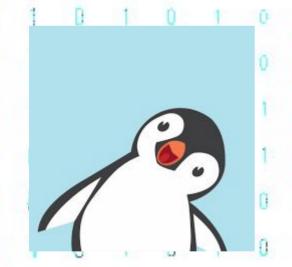
# Odoo User Guide



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# **Team Members:**

Joann Tan (U1811422G)
Ng Ching Jie (U1910649D)
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# **About Us**

TEAM MEMBERS		
Joann Tan (U1811422G)	https://drive.google.com/file/d/1HvLmD8qpMm1DX9ZZ21hq MoJLqNo1qz8a/view?usp=sharing	
Ng Ching Jie (U1910649D)	https://www.youtube.com/watch?v=kuqgGanuiHo&ab_chan nel=ChingJieNg	
Phua Sheng Han (U2010538E)	https://youtu.be/ITMFhy6iBtQ	
Wong Yong Sheng (U2010110E)	https://ntu-sg.zoom.us/rec/share/rXuEcWJEs6EUG8Fc8CqP Dar5Bi6Tb5FspCi17MNu-TYtcA9KFWLQlxbFvSkYST57.ax be4Fulpo_Kv0-i Passcode: #h5Xs?u#	
Yong Jia Xun (U2010225K)	https://youtu.be/1jH_0TLq4zg	

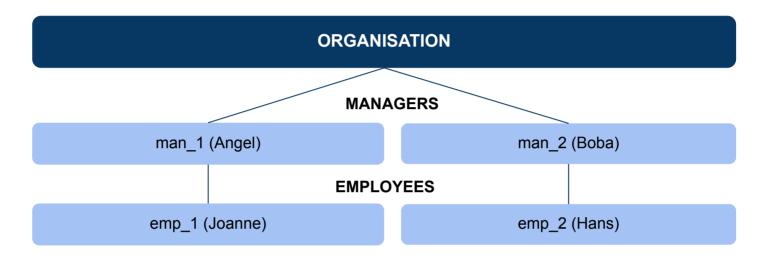
<u>Project</u> <u>Objective</u>

The source of inspiration came from our personal work experiences. We found that applying for claims and leaves were inefficient and disorganised. For instance, when employees email their managers to apply for claims, managers have to approve claims and leave individually. Additionally, they may overlook certain emails. Thus, our objective is to create a seamless user experience that oversees all the claims and leave applied for, as well as a Chatbot that attends to employees' enquiries. We aim to create a realistic scenario where managers and employees access separate systems and have access to different information on their accounts. Our project integrated a range of functions (where it is applicable) covered in the course to create the system, Odoo. .

WORK RESPONSIBILITY DISTRIBUTION		
Leave + Claim Management System	Jia Xun, Joann, Ching Jie, Sheng Han, Yong Sheng	
HR Chatbot	Joann	
Checking for Errors and System Re-prompt	Jia Xun, Ching Jie, Sheng Han, Joann	
Programming User Guide (Part 1)	Joann, Ching Jie, Sheng Han, Yong Sheng	
Data Cleaning	Jia Xun, Joann, Ching Jie, Sheng Han	
Analytics A3 Poster	Jia Xun, Joann, Ching Jie, Sheng Han, Yong Sheng	

# Predefined Data: Employees' and Managers' Information

In every company, employees compensation and benefits package differs from one another. Therefore, in our dataset, we have predefined the information for each employee and manager with the use of dictionary. Employees and managers are identified by their ID (E.g emp\_1, man\_1).



```
comp_dict = {
          {"Name" : "Joanne",
 "emp_1" :
           "Role" : "Banker",
           "Salary" : 8000,
           "Manager" : "Angel"
           "Leave Balance": 12,
           "Claims Made Successfully": 0},
 "emp_2" : {"Name" : "Han",
           "Role": "Banker",
           "Salary": 8000,
           "Manager" : "Boba"
           "Leave Balance" : 3,
           "Claims Made Successfully": 0},
 "Employee_id" : "emp_1",
           "Leave Balance" : 12,
           "Claims Made Successfully": 0},
 "Salary": 12000,
          "Employee": "Han",
          "Employee_id": "emp_2",
          "Leave Balance": 12,
          "Claims Made Sucessfully": 0},
```

# **Leave Dictionary**

Each dictionary is categorised using the employee's and manager's ID as the key. Values will be appended into the dictionary when they apply for leave(s). "emp\_1" has a leave date pending for confirmation, whereas "emp\_2" have leave dates that are approved by the manager.

```
Count_Of_Leaves_Pending = {
    "emp_1" : 0,
    "man_1" : 0,
    "man_2" : 0
}

Days_Applied_Rejected = {
    "emp_1" : [],
    "emp_2" : [],
    "man_1" : [],
    "man_2" : []
}

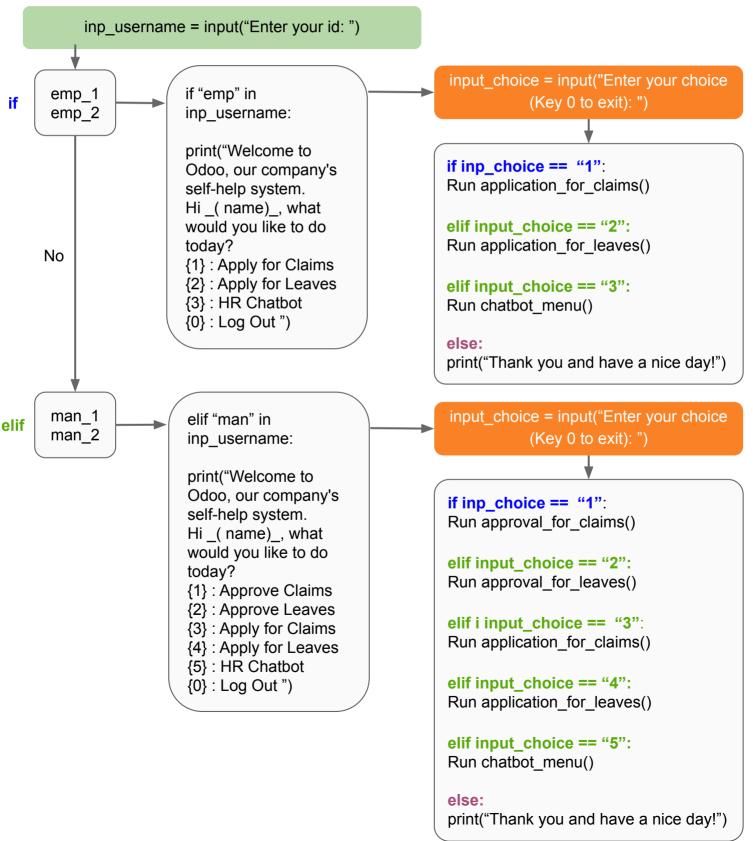
Days_Applied_Pending = {
    "emp_1" : ["05/12/2021","06/12/2021"],
    "emp_2" : [],
    "man_1" : [],
    "emp_1" : [],
    "emp_2" : ["01/01/2021", "02/01/2021", "03/01/2021", "04/01/2021", "05/01/2021","06/01/2021","07/01/2021","08/01/2021"],
    "emp_2" : ["01/01/2021", "03/01/2021", "04/01/2021", "05/01/2021", "06/01/2021", "07/01/2021", "08/01/2021"],
    "emp_2" : ["01/01/2021", "03/01/2021", "04/01/2021", "05/01/2021", "06/01/2021", "07/01/2021", "08/01/2021"],
    "emp_2" : ["01/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021", "08/01/2021",
```

# **Claims Dictionary**

Each dictionary is categorised using the employee's and manager's ID as the key. Values will be appended into the dictionary when they apply for leave(s). Both employees (emp\_1, emp\_2) have taxi fares and medical claims pending for managers' confirmation. Once approved, the amount will be appended into the Claims Confirmed dictionary while Claims Pending reverts back to 0.

# Main Menu def main\_menu()

Employees and managers will see different main menus. Portraying the real reality where employees and managers have access to different system functions. Specially for managers, they have access to the Claims Approval and Leaves Approval portal. Different code functions will run depending on their agenda (input choice).



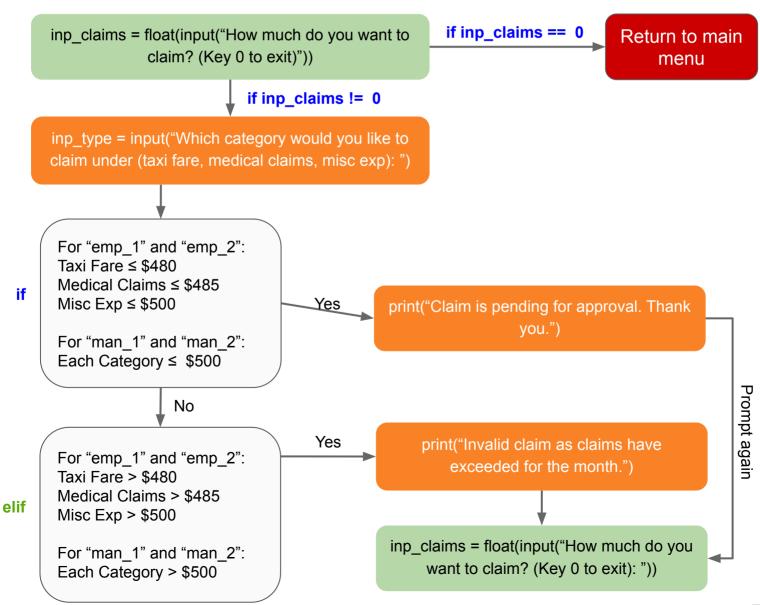
# **Applying for Claims:**

def application for claims()

All employees and managers are eligible to a total monthly claimable amount for the following categories:

Taxi Fare	\$500
Medical Claims	\$500
Miscellaneous Expenditures	\$500

Depending on the category of claim(s), if the amount that the employee wish to claim have exceeded the monthly limit, Odoo will notify him/her. Otherwise, the claim(s) will be submitted to his/her respective manager for approval.

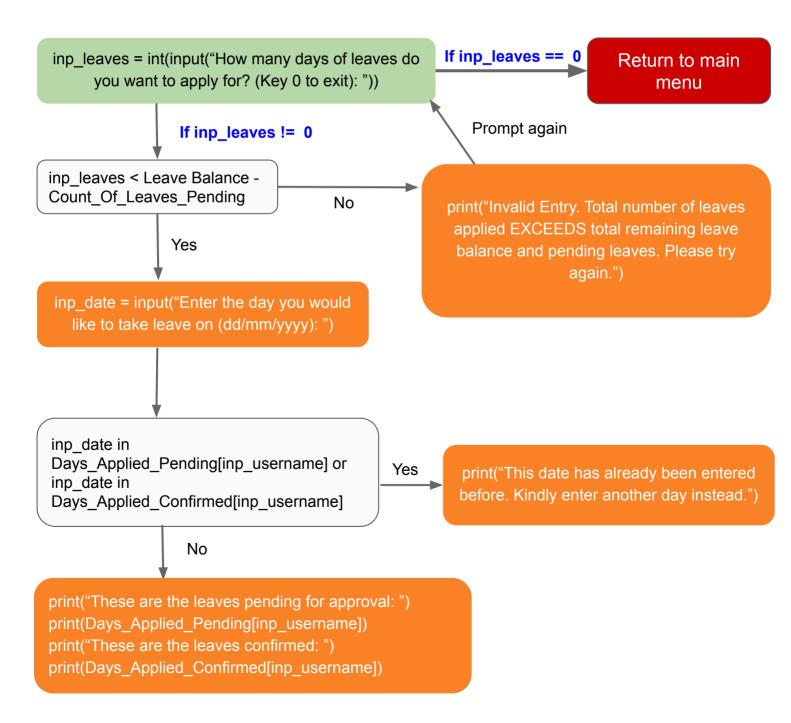


## **Applying for Leaves:**

def application for leaves()

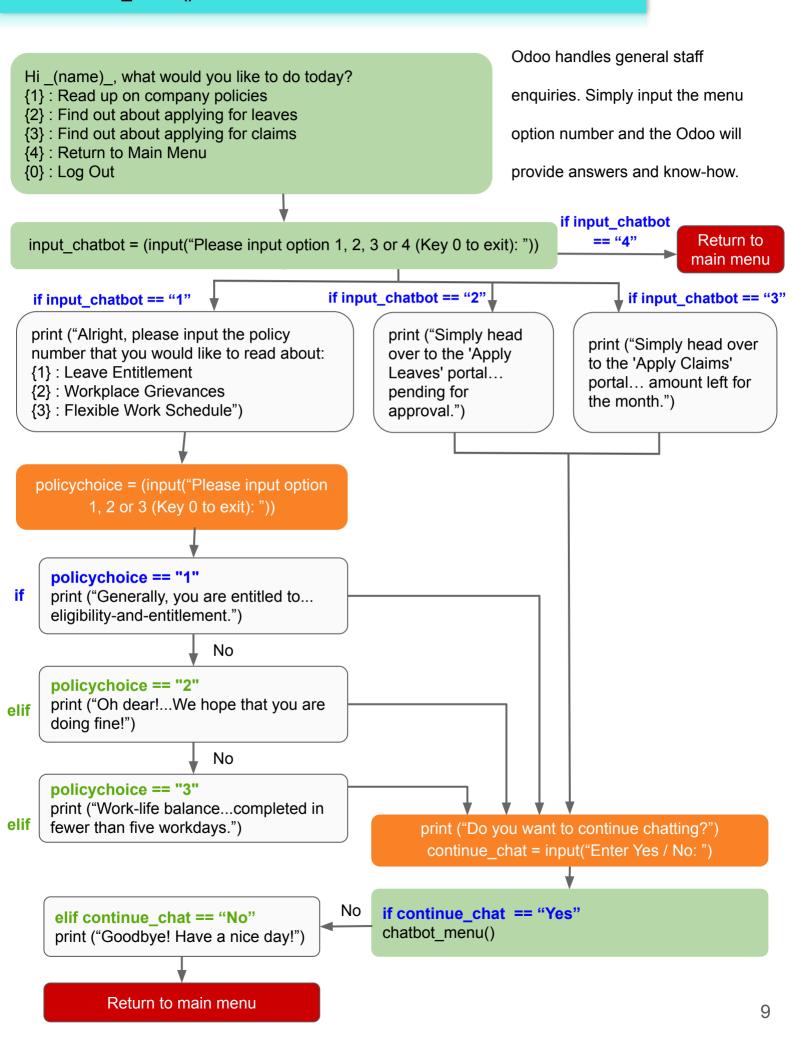
Every employee is entitled to 12 days of leaves annually. Simply state the number of leave day(s) and the date(s). Odoo will inform the employee of the dates that are currently pending for manager's approval.

However, if the number of leave day(s) applied have exceeded the leave balance, the employee will be notified by Odoo.



#### **HR Chatbot**

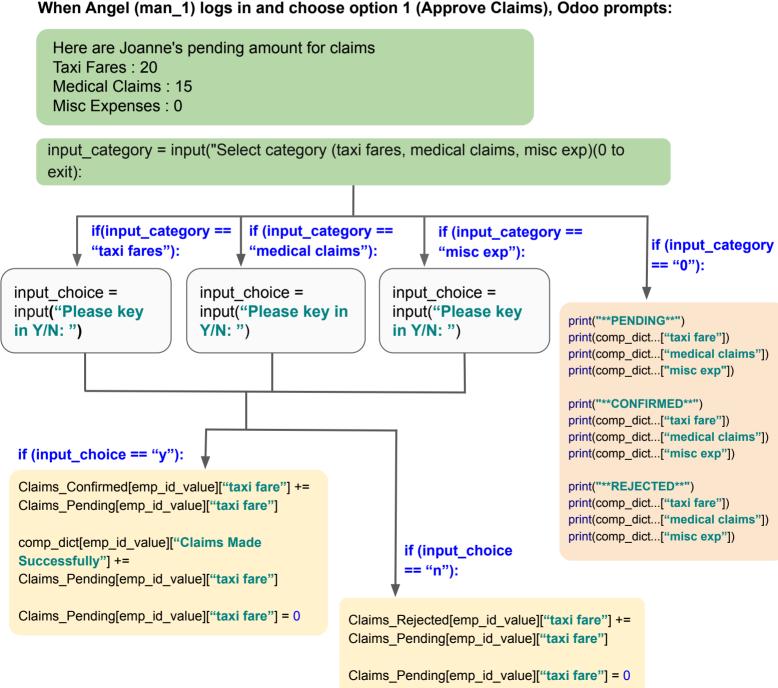
def chatbot\_menu()



### **Approval for Claims (Managers only)** def approval\_for\_claims()

Managers are able to approve / reject claims made by their respective employees. For instance, Angel (man 1)) is able to approve / reject claims for Joanne (emp 1).

First, the Manager would have to select the category of claims (taxi fare, medical expenses, misc expenses) that they wish to approve / reject. Upon approval, the Claims Pending amount for that category will be reverted back to 0 and the Claims Confirmed will be appended. The Claims Made Successfully in the dictionary (comp dict) will also be appended.



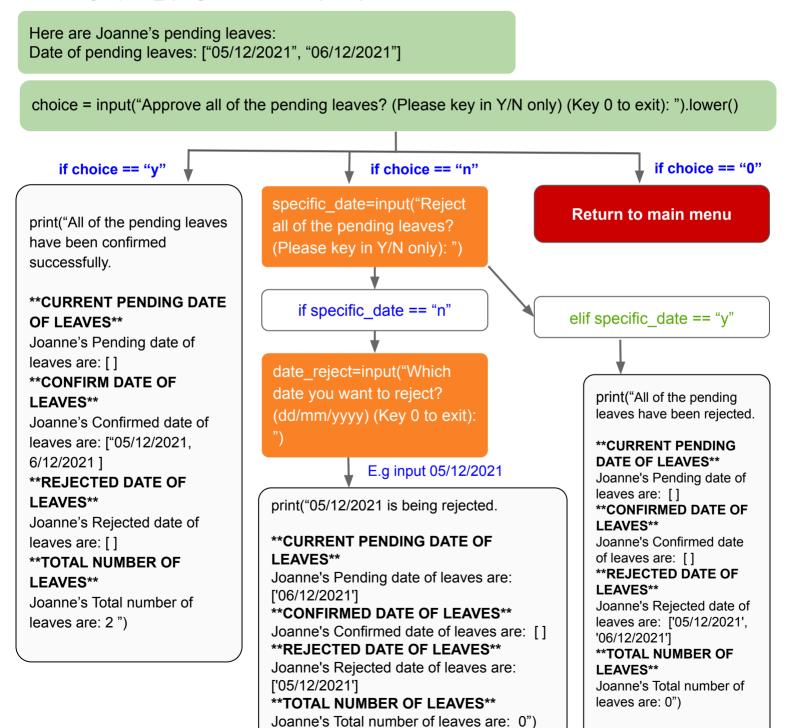
# Approval for Leaves (Managers only)

def approval\_for\_leaves()

Managers are able to decide whether to approve the leaves applied by their respective employees.

For instance, Angel (man\_1) can choose to only approve or reject Joanne's (emp\_1) leave applications but not Han's (emp\_2). Firstly, the manager will be able to view their respective employees' leaves that are pending. Thereafter, Odoo will prompt the manager whether to approve all of the pending leaves. The flowchart below is an example of how the system will work:

#### When Angel (man\_1) logs in, Odoo will prompt:



- 1. To begin, login as an employee using your employee id. <a href="Input">Input "emp\_1"</a>.
- From the main menu, we start with Applying for Claims. Input "1".
   Odoo will show the amount of claims that you can claim for each category.
- 3. Key the following:

SYSTEM PROMPT:	INPUT THE FOLLOWING:
How much do you want to claim?	480
Which category would you like to claim under (taxi fare, medical claims, misc exp):	taxi fare
How much do you want to claim?	55
Which category would you like to claim under (taxi fare, medical claims, misc exp):	medical claims

```
Enter your id to begin: emp_1
  =====Welcome to Odoo, our company's self-help system.======
Hi Joanne, what would you like to do today?
{1} : Apply for Claims
{2} : Apply for Leaves
{3} : HR Chatbot
{0} : Log Out
Enter your choice (Key 0 to exit): 1
Here is how much you can claim for each category.
Taxi Fare : 480
Medical Claims : 485
Misc Exp
How much do you want to claim? (Key 0 to exit): 480
Which category would you like to claim under (taxi fare, medical claims, misc exp): taxi fare
Claim is pending for approval. Thank you.
Here is how much you can claim for each category.
Taxi Fare : 0.0
Taxi Fare
Medical Claims:
                    485
Misc Exp
How much do you want to claim? (Key 0 to exit): 55
Which category would you like to claim under (taxi fare, medical claims, misc exp): medical claims
Claim is pending for approval. Thank you.
Here is how much you can claim for each category.
Taxi Fare : 0.0
Medical Claims: 430.0
Misc Exp : 500
Misc Exp
```

Your claims will be rejected if you have exceeded the monthly limit of \$500 for each category.

Otherwise, your claim application will be sent forward to your manager for approval.

- 4. Odoo will continue prompting "How much do you want to claim? (Key 0 to exit)". Input "0" once you have completed applying for claim(s) and you will be returned to the main menu.
- At main menu, proceed to Apply for Leaves. Input "2".
   Odoo will display the number of leaves that you can apply for.

```
How much do you want to claim? (Key 0 to exit): 0

Hi Joanne, what would you like to do today?
{1} : Apply for Claims
{2} : Apply for Leaves
{3} : HR Chatbot
{0} : Log Out

Enter your choice (Key 0 to exit): 2
Currently, you can claim up to 10 days of leave.

How many days of leaves do you want to apply for? (Key 0 to exit):
```

- 6. Input the number of leaves you wish to apply for. Input "2".
- 7. Input the dates that you wish to apply. Since you have requested to apply for 2 days of leaves, the input will prompt you twice. Input "10/11/2021" and "11/11/2021" respectively.

```
How many days of leaves do you want to apply for? (Key 0 to exit): 2

Enter the date you would like to take leave on (DD/MM/YYYY): 10/11/2021

Enter the date you would like to take leave on (DD/MM/YYYY): 11/11/2021

These are the leaves pending for approval:
['05/12/2021', '06/12/2021', '10/11/2021', '11/11/2021']

These are the leaves confirmed:
[]
```

8. Would you like to return back to the Main Menu? Input "Y".

```
These are the leaves confirmed:
[]

Would you like to return back to the Main Menu? (Enter Y/N only): Y

Hi Joanne, what would you like to do today?
{1}: Apply for Claims
{2}: Apply for Leaves
{3}: HR Chatbot
{0}: Log Off
```

9. At main menu, proceed to use the **HR Chatbot**. Input "3".

```
Hi Joanne,what would you like to do today?
{1} : Apply for Claims
{2} : Apply for Leaves
{3} : HR Chatbot
{0} : Log Out
Enter your choice (Key 0 to exit): 3
```

10. Depending on your agenda, simply follow through and input the chatbot menu numbers accordingly. Here's an example:

```
Hi Joanne, what would you like to find out today?
{1} : Read up on company policies
{2} : Find out about applying for leaves
{3} : Find out about applying for claims
{4} : Return to Main Menu
{0} : Log Out
Please input option 1, 2, 3 or 4 (Key 0 to exit): 1
Alright, please input the policy number that you would like to read about:
{1} : Leave Entitlement
{2} : Workplace Grievances
{3} : Flexible Work Schedule
Please input option 1, 2 or 3 (Key 0 to exit):1
Generally, you are entitled to paid annual leave if you have worked with the company
for at least 3 months. You may wish to check your leave balance through our company
portal or kindly approach your supervisor to find out more.
To read up more about leave eligibility and entitlement, please visit https://
www.mom.gov.sg/employment-practices/leave/annual-leave/eligibility-and-entitlement.
```

- 11. Exit from the chatbot. Input "N".
- 12. Log off from Odoo. Input "0".

```
Do you want to continue chatting?

Enter Y/N :n

Hi Joanne,what would you like to do today?
{1} : Apply for Claims
{2} : Apply for Leaves
{3} : HR Chatbot
{0} : Log Off

Enter your choice (Key 0 to exit): 0
Thank you and have a nice day!
```

Note: Do not stop running the code. Continue with step 13.

- 13. Now, begin to login as manager. Input "man 1".
- 14. From the main menu, proceed to Approve for Claims. Input "1".

```
Hi Angel,what would you like to do today?
{1}: Approve Claims
{2}: Approve Leaves
{3}: Apply for Claims
{4}: Apply for Leaves
{5}: HR Chatbot
{0}: Log Out

Enter your choice (Key 0 to exit): 1
```

15. Joanne's claims (\$400 taxi fare, \$55 medical claims) which were applied for earlier on have been appended into the dictionary. Odoo will prompt the total amount of claims that has been applied and pending for Angel's approval.

```
Here are Joanne's pending amount for claims
Taxi Fare : 500.0
Medical Claims : 70.0
Misc Expenses : 0
```

- 16. Select the category for approval. Input "taxi fare", then input "Y".
- 17. Next, input "medical claims" and input "Y".

```
Select category for approval (taxi fare, medical claims, misc exp)(Key 0 to exit):taxi fare

Please key in Y/N: y

Select category for approval (taxi fare, medical claims, misc exp)(Key 0 to exit):medical claims

Please key in Y/N: y
```

18. Once there is no other claims to approve, input "0" to exit. Joanne's claims breakdown will be displayed.

```
Select category for approval (taxi fare, medical claims, misc exp)(Key 0 to exit):0

**PENDING**
Joanne's Taxi Fare : 0
Joanne's Medical Expenses : 0

**CONFIRMED**
Joanne's Taxi Fare : 500.0
Joanne's Medical Expenses : 70.0
Joanne's Misc Expenses : 0

**REJECTED**
Joanne's Taxi Fare : 0
Joanne's Medical Expenses : 0

Joanne's Medical Expenses : 0
```

19. Continue to **Approve for Leaves**. Input "2".

Joanne's leave dates (10/11/2021, 11/11/2021) which were applied for earlier on have been appended into the dictionary. Odoo will prompt the list of leave date(s) that Joanne had applied and awaiting Angel's approval.

```
Hi Angel,what would you like to do today?
{1} : Approve Claims
{2} : Approve Leaves
{3} : Apply for Claims
{4} : Apply for Leaves
{5} : HR Chatbot
{0} : Log Off

Enter your choice (press 0 to exit): 2
Here are Joanne's pending leaves:
Date of pending leaves: ['05/12/2021', '06/12/2021', '10/11/2021', '11/11/2021'
```

- 20. To approve all leave dates, input "Y".
- 21. Once approved, Joanne's leaves breakdown will be displayed.

```
Approve all of the pending leaves? (Please key in Y/N only)(Key 0 to exit): y All of the pending leaves have been confirmed successfully.

CURRENT PENDING DATE OF LEAVES
Joanne's Pending date of leaves are: []

CONFIRMED DATE OF LEAVES
Joanne's Confirmed date of leaves are: ['05/12/2021', '06/12/2021', '10/11/2021', '11/11/2021']

REJECTED DATE OF LEAVES
Joanne's Rejected date of leaves are: []

TOTAL NUMBER OF LEAVES
Joanne's Total number of leaves are: 4
```

- 22. Once completed, you will return to main menu. To log off, input "0".
- 23. You have reached the end of the Odoo. Thank you.

```
Hi Angel, what would you like to do today?
{1}: Approve Claims
{2}: Approve Leaves
{3}: Apply for Claims
{4}: Apply for Leaves
{5}: HR Chatbot
{0}: Log Out

Enter your choice (Key 0 to exit): 0
Thank you and have a nice day!

Enter your id to begin: |
```