

POWERAPPS



MOCKAPP 2

DEVELOPMENT

PREPARED FOR

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CFAO Motors SA



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1. PROJECT OVERVIEW

We are given an assignment to build an application on what we have learnt in the previous 3 weeks.

This assignment is based on SharePoint, we are building applications of our choices. I chose to build a Salary Increase (SI) application, in this app users (people within the organisation) can apply, modify and delete a salary increase application.

Tools I used in this application are:-

- I. SharePoint.
- II. PowerApps.
- III. Power Automate (flows).
- IV. Office 365.

2. OBSTACLES

Challenges I faced in this application are making the submit button not to submit when the entries are not filled, even though the same code works on the different screen.

Making the flow receive a name of the person who approves or rejects the application. I tackled this one by using only the email address of the approver which worked as expected.

Populating the dropdown controls with collections, I didn't know that I had to refresh the entire development in order to make the collections be visible on the entire app. I was stuck on this function for at 30 minutes trying to work it out.

Another challenge was trying to use the ID of a SharePoint list. I wanted to make a unique Identifier for title, it was going to increment every time, which didn't work as planned.

More obstacles came as I wanted to change the look and feel of the application, which almost ruined the entire app, I fixed this by restoring the last saved application.

3. TECHNICAL OBSTACLES

I didn't face any technical challenges as we are using computer with an internet connection with a speed of 100mbps, which is really fast and efficient for SharePoint development.

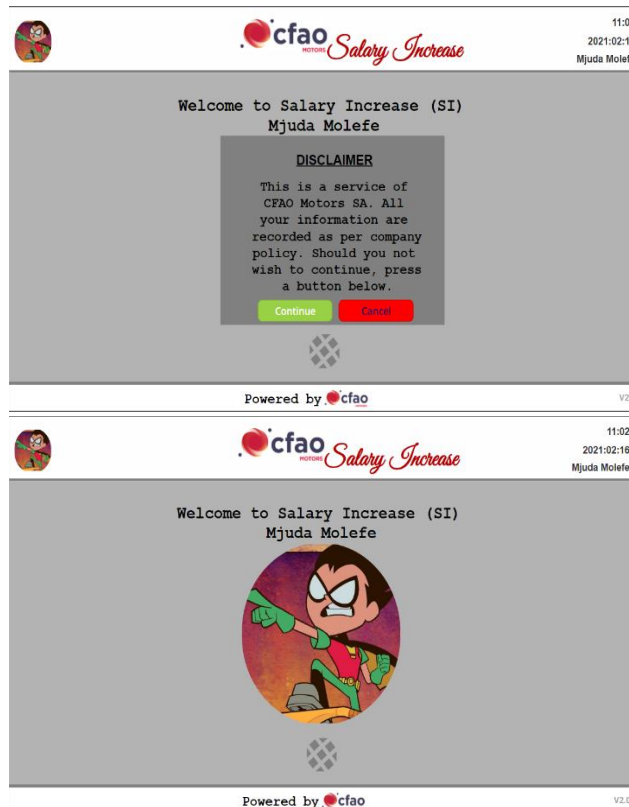
4. HARDWARE

- I. Dell Desktop with Intel Core i5 @3.00GHz processor and a 8GB RAM.
- II. 100Mbps internet speed.
- III. Windows 10 Pro.

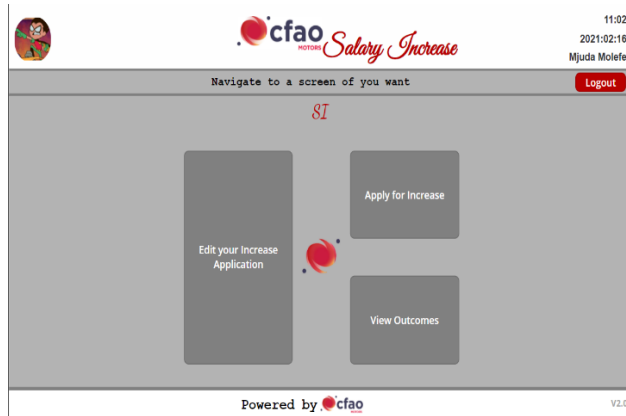
5. APPLICATION USER GUIDE

This application have 2 different types of users

1. User



The first login pages for both users (Admin and ordinary users).



A navigation screen.

This screenshot displays the 'Apply for a Salary Increase' form. The header includes the application logo, a home icon, and a timestamp of 11:09 on 2021-02-16 for user 'Mjuda Molefe'. The form is titled 'Apply for a Salary Increase' and features a 'SI' logo. It contains several input fields: 'Amount' (1600), 'Reason for Increase' (Extended working hours), 'Department' (Finance), and 'Role' (Junior). Below these, there are fields for 'Title' (CFAOF), 'Amount' (R1600), 'Reason' (Extended working hours), and 'Description' (Mjuda Molefe applied for a salary increase of R1600, in Finance Department. Reason : Extended working hours). A 'Submit' button is located at the bottom right of the form. The footer shows 'Powered by cfao' and 'V2.0'.

Application Screen.



A screen after submitting.



cfao

Salary Increase

11:09
2021:02:16
Mjuda Molefe

Edit available entries



CFAOFi

Mjuda Molefe

Pending



CFAOFi

R1600

Description

Mjuda Molefe Chi

Amount


R1600

Save

Powered by cfao

V2.0

An edit screen.



cfao

Salary Increase

11:10
2021:02:16
Mjuda Molefe

Your submitted Salary Increase outcomes

Mjuda Molefe

Submitted	1
Approved	0
Pending	1
Rejected	0


Approver(s)

Powered by cfao

V2.0

Outcome screen.

2. Managers



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HR

Salary Increase

11:12

2021-02-16

Mjuda Molefe

Outcomes of increase applications

≡

+

Logout

IT/IS

HR

Finance

Risk

Submitted

0

Submitted

0

Submitted

1

Submitted

0

Approved

0

Approved

0

Approved

0

Approved

0

Pending

0

Pending

0

Pending

1

Pending

0

Rejected

0

Rejected

0

Rejected

0

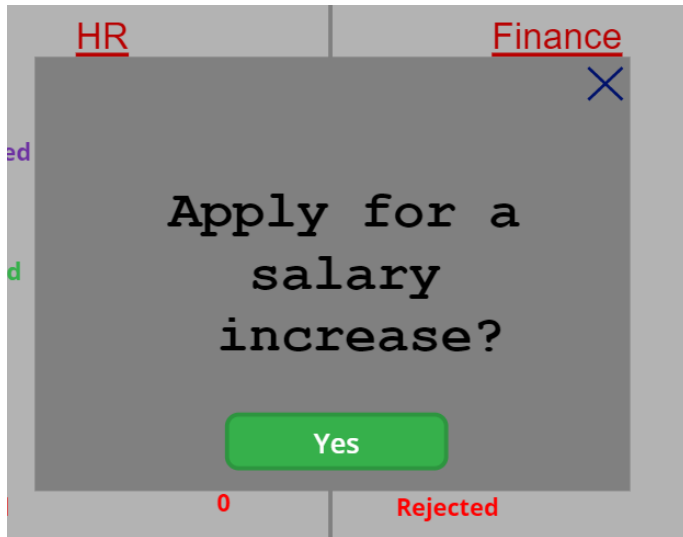
Rejected

0

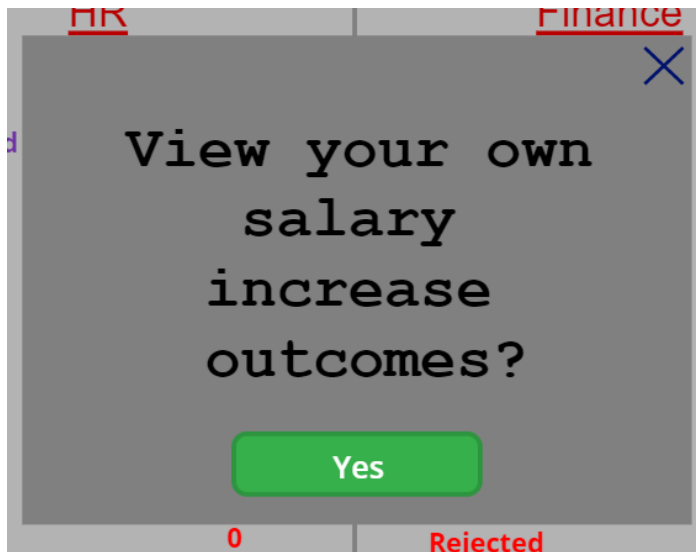
Powered by cfao

V2.0

A manager's landing page.



Managers can apply.



Managers can view.

Apply for a Salary Increase

Amount: 2131 Reason for Increase: Extended working hours Department: IT/IS Role: Manager

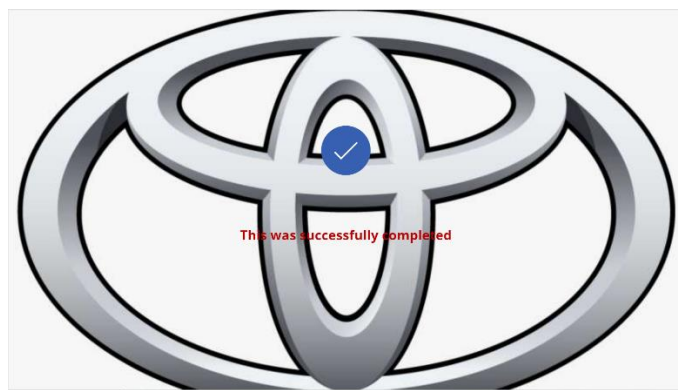
Title: CFMantIT Description: Mjuda Molefe a manager in IT/IS applied for a s Reason: Extended working hours

Department: IT/IS Amount: R2131

Submit

Powered by cfao

Manager's application page.



A success page for managers.

Your submitted Salary Increase outcomes

Mjuda Molefe

Submitted: 3 Approved: 2 Pending: 1 Rejected: 0

Approver(s)

Mjuda Molefe 02/16/2021

Mjuda Molefe 02/16/2021

Powered by cfao

Manager's outcome screens.

6. MILESTONES AND REPORTING

Total estimation of man hours: 26.5

Milestone	Tasks	Reporting	Hrs	Date
1 - Analysis				
1.1	Analysis and design stage, gather data and create system mock	None	2	11/02/21
1.2	Architecture design	None	4	11/02/21
1.3	Design work plan (distribution of tasks to development teams)	None	2	12/02/21

2 - Development				
2.1	Create Lists	None	0.5	12/02/21
2.2	Create data	None	0.5	12/02/21
2.3	Create GUI	None	4	12/02/21
2.4	Create flows	None	1.5	15/02/21
2.5	Build Application functions	None (Assistance)	5	15/02/21
3 - Testing				
3.1	PowerApps	None	1	15/02/21
3.2	Power Automate	None	0.5	15/02/21
3.3	Beta version	Frank Ross, Kgothatso Mphafudi	0.5	16/02/21
3.4	Finalise documentation	Frank Ross, Sydney Foster, Hanru Oosthuizen	1.5	16/02/21
4 - Deployment				
4.1	Tablet Application	None	2.5	16/02/21
4.2	Desktop Application (Web browsers)	None	0.5	16/02/21
5 - Demonstration				
5.1	Full demo	Frank Ross, Sydney Foster, Hanru Oosthuizen, Kgothatso Mphafudi, Donald Ngoasheng	0.5	17/02/21

7. SAMPLE CODE </>

Code used to set Role based access.

```
If(Office365Users.MyProfile().DisplayName="Sydney Foster"
||Office365Users.MyProfile().DisplayName="Hanru
Oosthuizen"||Office365Users.MyProfile().DisplayName="Frank Ross",Navigate(Outcome,Fade));
```


Code used to count number of applications a user have.

```
CountRows(Filter(ManagerSI_1,CreatedBy=User().FullName))
```

Code used to submit an application.

```
If(txtamount_1.Text=""&&
```

```
ddreason_1.SelectedText.Value=""&&
```

```
dddepart_1.SelectedText.Value=""&&
```

```
DataCardValue16.Text="R"
```

```
,
```

```
!SubmitForm(Form1_1)&&UpdateContext({error1:"Fields are required"}),
```

```
SubmitForm(Form1_1)&&Navigate(FormSubmittedSI,ScreenTransition.Fade)&&UpdateContext({error1:""}));
```

```
//Refresh(Salary);
```

```
Refresh(ManagerSI_1);
```

```
Set(con6,true);
```

```
Set(con7,true);
```

Code used to modify the list.

```
Patch(Salary,Gallery4.Selected,{Description: DataCardValue4.Text  
,Amount:DataCardValue8.Text});
```

```
Set(Updated,true);
```

```
Refresh(Salary)
```

Code used to restrict users from entering huge amount.

```
If(Value(txtamount.Text)<0||Value(txtamount.Text)>4000,Reset(txtamount)&&UpdateContext({err:"  
amount cannot be greater than 4000 or lesser than  
0"})&&btnSubmit.DisplayMode.Disabled,UpdateContext({err:""}));
```