CSE 302
Group 10
DBMS Project Report

Level -3
CSE-19
Section B

MD. Wasif ul Islam 201914029
Tasnim Fariha 201914034
MD Abu Sayed 201914030

Introduction

An Orphanage management is a project that manages and stores information of Orphans electronically. Then if anyone would want to adopt any child, they can adopt the child by coming into our office . We would update their information with the adoptive parents or guardian's information.

The donors who want to donate in that orphanage can also make donation for the children. The record of the employees are saved here. The sub class of Employee who are supervisors can view the children information. The admin can keep track of the expense's reports and their monthly earnings. The errors are avoided by allowing the system to keep track of such information and thus there is no need to keep manual track of this information which thereby avoids chances of mistakes.

Present System

We are working on a project which manages a database of an Orphanage.
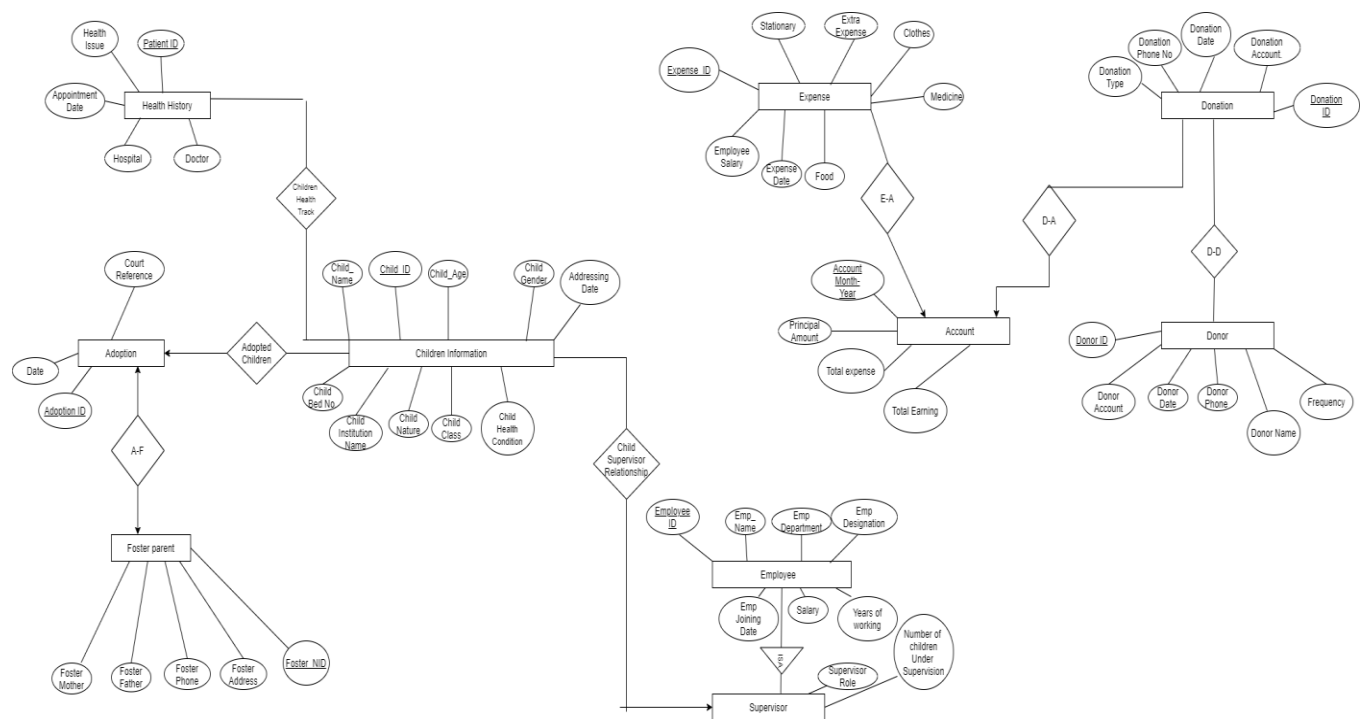
Here we can register as a Donor or Foster parent (who wants to adopt a child) and log in as an admin, a donor, an employee, a supervisor and a foster parent. Donor can donate in this orphanage and that donation will be added to the account of the orphanage as an earning. Foster Parent can adopt an orphan child with some court references and with permission of the admin who controls the whole system. Employees' records are kept in the database and Supervisors can take care of those children who are under their supervision. Employees can also view and add some records in the Expense's records and see how much money were paid to manage the whole orphanage. If we log in as an admin we have every record of every profile or account who is in that database.
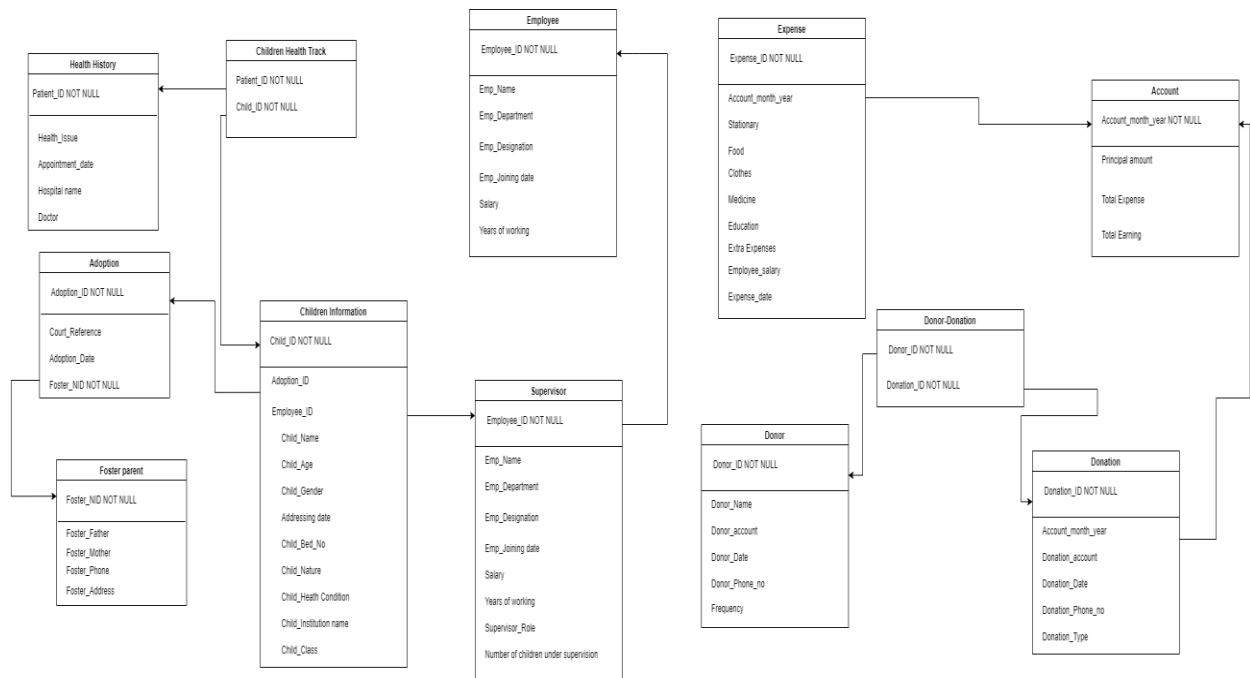
There are some automated systems in this project. The ID which is the primary key for every table is generated automatically except the foster parent's NID. Then another is, if we add some donation as a donor, it will be

also calculated in the account section and can give the monthly reports of expenses and earning. Another is, when we assign a child to a supervisor, the number of children under supervision will be increased automatically and also be updated in the database.

One problem that we faced in this project was we have to put the ID into search box to go into a particular profile of a child/employee/foster parent/donor. This is not an ideal situation. We wished that we could add dropdowns to every search query so that by clicking that ID we could directly go into that profile.

Proposed System

Health History

Patient_ID NOT NULL

Health_Issue
Appointment_date
Hospital name
Doctor

Children Health Track

Patient_ID NOT NULL
Child_ID NOT NULL

Employee

Employee_ID NOT NULL

Emp_Name
Emp_Department
Emp_Designation
Emp_Joining date
Salary
Years of working

Expense

Expense_ID NOT NULL

Account_month_year
Stationary
Food
Clothes
Medicine
Education
Extra Expenses
Employee_salary
Expense_date

Account

Account_month_year NOT NULL

Principal amount
Total Expense
Total Earning

Adoption

Adoption_ID NOT NULL

Court_Reference
Adoption_Date
Foster_NID NOT NULL

Children Information

Child_ID NOT NULL

Adoption_ID
Employee_ID
Child_Name
Child_Age
Child_Gender
Addressing date
Child_Bed_No
Child_Nature
Child_Heath Condition
Child_Institution name
Child_Class

Supervisor

Employee_ID NOT NULL

Emp_Name
Emp_Department
Emp_Designation
Emp_Joining date
Salary
Years of working
Supervisor_Role
Number of children under supervision

Donor-Donation

Donor_ID NOT NULL
Donation_ID NOT NULL

Donor

Donor_ID NOT NULL

Donor_Name
Donor_account
Donor_Date
Donor_Phone_no
Frequency

Donation

Donation_ID NOT NULL

Account_month_year
Donation_account
Donation_Date
Donation_Phone_no
Donation_Type

Foster parent

Foster_NID NOT NULL

Foster_Father
Foster_Mother
Foster_Phone
Foster_Address

This the Admin Profile

This is admin searching supervisors and other employees

○Supervisor

○Other   View

ID	Name	Department	Designation	Joining Date	Salary	Years of working	Number of children
e20210621203625	Tamim	Health	First Class	02-JAN-17	10000	5	0
EM_003	RAGIB	EDUCATION	FIRST CLASS	01-JAN-19	10000	3	3
e20210622041736	emps	Health	First Class	01-JAN-18	10000	4	0

employee id :

Search

insert

This is admin going to various profiles by searching the ID

RAGIB

ID	EM_003
Name	RAGIB
Department	EDUCATION
Designation	FIRST CLASS
Salary	10000
Years of working	3
Joining date	01-JAN-19

Edit Profile   Delete

Admin can also register a new Employee

EMPLOYEE REGISTRATION FORM

Employee Name :

Employee Department :

Employee Designation :

Employee Joining Date :
mm/dd/yyyy

Salary :

Years Of Working :

Password :

Employee Type   ⦿Supervisor ◯Other

Register

This is admin going to Children's table to do some query where he can do search children by their age, their common names, their institutions, class and supervisor ID. He can see the children who are still orphans.

◯Adopted
⦿Still Orphan

ID	Name	Age	Bed_no	Gender	Health Condition	Institution Name	Class	Nature	Addressing Date	S
	Filter by name	Lower bound of age / Upper bound of age		Gender ▾		Filter by institution nam	From / To			S
CH_006	RATUL	4	6	MALE	HEALTHY	AMARI SCHOOL	2	ANGRY	02-NOV-19	E
C_1400	TINA	6	2	FEMALE	HEALTHY	AMARI SCHOOL	2	NORMAL	01-NOV-19	

child id :

Search

insert
Adoption Details

Admin can see all the Adoption Details of every adoption

Foster NID	fathers name	Mothers Name	Phone no	Child ID	Child Name	Adoption ID
NID3245	Anis Bijoy	Amrin hoque	01955966557	ch_2021-06-21 13:45:08	wasif	adpt_req293
NID3245	Anis Bijoy	Amrin hoque	01955966557	ch_20210621214443	Kanon	adpt_req583
NID3245	Anis Bijoy	Amrin hoque	01955966557	CH_002	MINA	Ad_000001
NID3255	Anis Rahman	Alice hoque	01555966537	CH_023	NINA	Ad_000002
NID3265	Amin Bijoy	Elin hoque	01985966597	CH_024	RITA	Ad_000003
NID334567	Anik Rahman	Rima rahman	019877	ch_20210621205427	Ahan	adpt_req463
NID3454	sazzad	rina	0191232432	CH_005	RINA	adpt_req894

Back

Admin can see the children who were adopted and search them by every important detail

◉Adopted
○Still Orphan

ID	Name	Age	Bed_no	Gender	Health Condition	Institution Name	Class	Nature	
	Filter by name	Lower bound of age / Upper bound of age		Gender ⌄		Filter by institution nam	From / To		
CH_005	RINA	5	5	FEMALE	HEALTHY	AMARI SCHOOL	2	NORMAL	
CH_002	MINA	6	2	FEMALE	HEALTHY	AMARI SCHOOL	2	NORMAL	
ch_20210621205427	Ahan	12	8	MALE	Healthy	wills little flower	6	normal	
ch_20210621214443	Kanon	16	8	MALE	Healthy	wills little flower	10	normal	
ch_2021-06-21 13:45:08	wasif	14	5	MALE	normal	wills little flower	9	normal	
CH_023	NINA	6	3	FEMALE	HEALTHY	AMARI SCHOOL	2	NORMAL	
CH_024	RITA	6	4	FEMALE	HEALTHY	AMARI SCHOOL	2	NORMAL	

child id : [   ]

Search

Admin can search the children by their age, gender, adoptive status, Institution name, class and supervisor ID.

Note that, Supervisors can also do this type of queries.

Foster parents can also do this type of queries but only within the orphan children.

Still Orphan

ID	Name	Age	Bed_no	Gender	Health Condition	Institution Name	Class	Nature
	Filter by name	6 / 14		Gender ∨		Filter by institution nam	From / To	
C_115764	Galib	14	34	MALE	Healthy	AMARI SCHOOL	9	Normal
C_1400	TINA	6	2	FEMALE	HEALTHY	AMARI SCHOOL	2	NORMA

child id : [   ]

Search

nsert
Adoption Details

ID	Name	Age	Bed_no	Gender	Health Condition	Institution Name	Class	Nature
	Filter by name	Lower bound of age / Upper bound of age		Male ∨		Filter by institution nam	From / To	
CH_006	RATUL	4	6	MALE	HEALTHY	AMARI SCHOOL	2	ANGRY
C_115764	Galib	14	34	MALE	Healthy	AMARI SCHOOL	9	Normal

child id : [   ]

Search

insert
Adoption Details

Admin can search the children profile by giving input into that search box

RATUL

ID	CH_006
Name	RATUL
Age	4
Bed no	6
Gender	MALE
Health Condition	HEALTHY
Institution	AMARI SCHOOL
Class	2
Nature	ANGRY
Addressing Date	02-NOV-19
Employee ID	EM_003
Adoption ID	

Admin can see the Health history of a particular child in his/her profile

HEALTH ISSUE	APPOINTMENT DATE	HOSPITAL NAME	DOCTOR
Vitamin D deficiency	11-NOV-19	Evercare Hospital	Anis Islam
Vitamin D deficiency	05-JAN-21	Evercare Hospital	Rashidul Islam

Admin can register a new child and update information of that child. Admin can assign a supervisor for this new child. This will increase the number of child under supervision of that particular supervisor.

CHILD ADDRESSING FORM

Child Name :

Child Age :

Bed no :

Gender :

Health Condition :

Institution :

Class :

Nature

Addressing Date   mm/dd/yyyy

Supervisor

Register

Admin can see the details of the foster parents who have registered and adopted children and search them by their ID's to go into their profiles

FOSTER NID	FOSTER FATHER NAME	FOSTER MOTHER NAME	FOSTER PHONE NO	FOSTER ADDRESS
Foster_000001	Enamul Bijoy	Lara hoque	01955966517	13/A, Siddheswari Lane, Dhaka
NID3245	Anis Bijoy	Amrin hoque	01955966557	13/A, Siddheswari Lane, Dhaka
NID3255	Anis Rahman	Alice hoque	01555966537	Bashundhara, Dhaka
NID3265	Amin Bijoy	Elin hoque	01985966597	Mawaghatt, Dhaka
NID334567	Anik Rahman	Rima rahman	019877	dhaka
NID3454	sazzad	rina	0191232432	dhaka
NID11025	sdfasd	amina	01918	hello
NIDFN110257911	sazzadul islam	amina	019181	hello
NID33	sazid	rima	0181	dhaka
NID345	sdada	amina	01918	dhaka

Foster NID : [   ]

[Search]

Anis Bijoy

NID	NID3245
Foster Father Name	Anis Bijoy
Foster Mother Name	Amrin hoque
Foster Phone No	01955966557
Foster Address	13/A, Siddheswari Lane, Dhaka

Admin can see all Donor's Information and Every Donor's Profile and how much she/he donated and how many times (Frequency) he /she donated

Donar Id	Donar Name	Donar Account	Donar Phone	Frequency Of Donation
D_001	Amina	acc-21334	01816713381	2
D_002	Aslam	acc-6789	01955966532	1

Donor id : D_002

Search

Donor Id	D_002
Donor Name	Aslam
Donor Phone	01955966532
Donor Account	acc-6789
Donation Frequency	1

DONATION ID	DONATION AMOUNT	DONATION DATE
d60d116767dc13	2000	22-JUN-21

Admin can see how much it cost from date to date and query the results by the field of expenses such as medicine, food, clothes etc.

Expense type : Stationary ▾	
Date	**STATIONARY**
06/08/2021 📅 06/22/2021 📅	View
21-JUN-21	20
21-JUN-21	100
21-JUN-21	100
nsert	

Admin can insert an expense and the system will automatically generate a unique expense ID with the help of time and date.

HOME   ABOUT   GALLERY   A1   Log Out

EXPENSE FORM

Expense Field :   Expense Fields ▾

Amount :

Add Expense

BACK

Then usual People can register as a foster parent

Foster parent can sign in and log in to see their profile

Foster parents can edit their own profile and update it

There they can only view the children who are not adopted yet

ID	Name	Age	Bed_no	Gender	Health Condition	Institution Name	Class	Nature	Addressing Date
	Filter by name	Lower bound of age / Upper bound of age		Gender ▾		Filter by institution nam	From / To		
CH_006	RATUL	4	6	MALE	HEALTHY	AMARI SCHOOL	2	ANGRY	02-NOV-19
C_1400	TINA	6	2	FEMALE	HEALTHY	AMARI SCHOOL	2	NORMAL	01-NOV-19

child id : [　　　　　　]

Search

ABOUT US   LAST TWEETS   Sadaka @ copyrights 2015 - by Ouarmedia

And then they can go to the child's profile and view him/her by searching his/her ID

They can also see their health history and adopt a child if they want to. So they will have to send a request to the admin to grant them permission to meet this child with court reference and with a mutual decision the admin can decide to accept the request or decline the request.
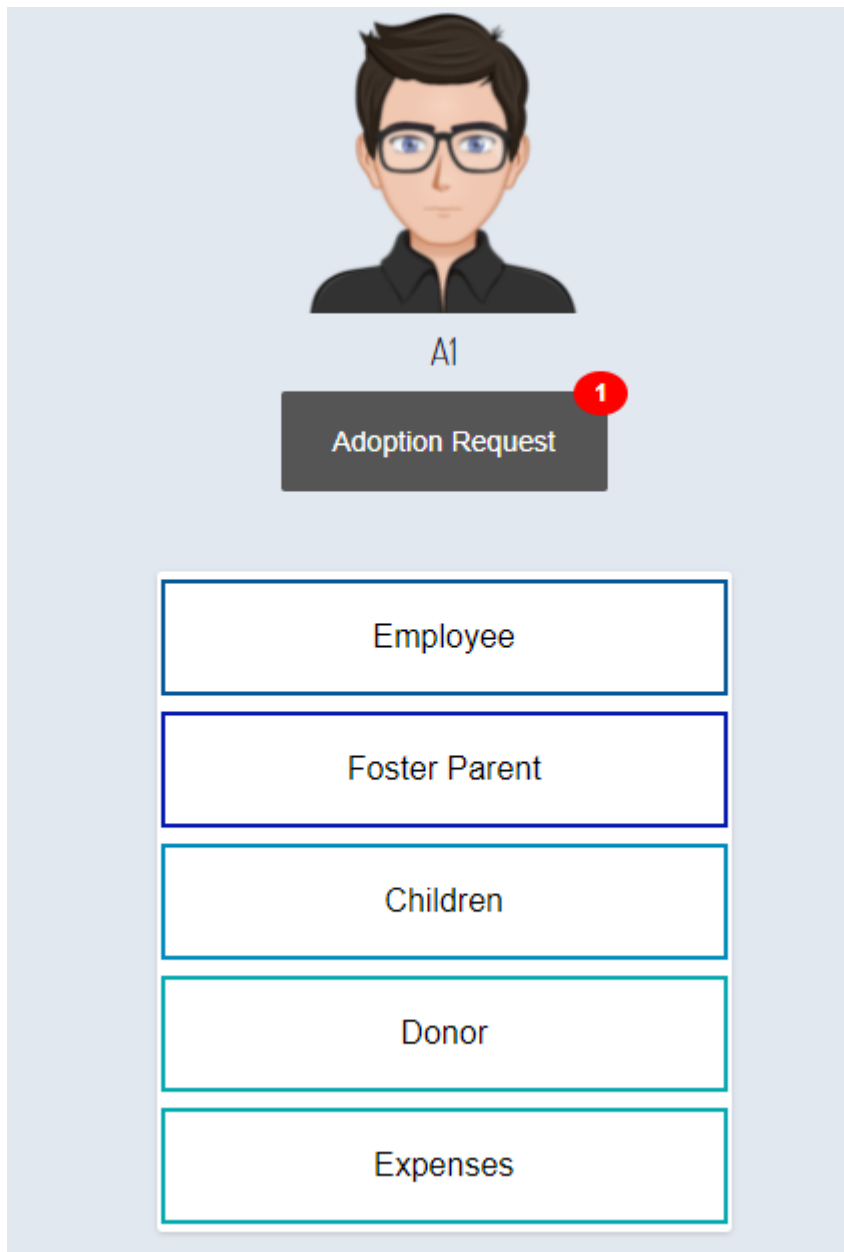
Galib

Age	14
Bed no	34
Gender	MALE
Health Condition	Healthy
Institution	AMARI SCHOOL
Class	9
Nature	Normal
Addressing Date	10-DEC-12
Employee ID	EM_003
Adoption ID	

Adopt Child

Health Info

Then if the foster parent presses the "Adopt Child" button to show an interest to adopt the child, then a notification goes to the admin profile that admin has an adoption request.

A1

Adoption Request [1]

Employee

Foster Parent

Children

Donor

Expenses

If admin opens the notifications, then he can see a request id has appeared which is auto generated by this system. Then if he views the request id, he can see both of the parent's profile and the child's profile. Then he can either accept this request by putting the court reference or decline the request.

Anis Bijoy

NID	NID3245
Foster Father Name	Anis Bijoy
Foster Mother Name	Amrin hoque
Foster Phone No	01955966557
Foster Address	13/A, Siddheswari Lane, Dhaka

Galib

ID	C_115764
Name	Galib
Age	14
Bed no	34

Gender	MALE
Health Condition	Healthy
Institution	AMARI SCHOOL
Class	9
Nature	Normal
Addressing Date	10-DEC-12
Employee ID	EM_003

Court Reference	
	Accept
	Decline

If the admin accepts it by putting the court reference, the notification in the notification bar will be gone. If there are several notification, then it will get decremented by 1

If anyone logs in as an Employee, then the employee can see his/her own profile where he can update some of his info and view the expenses of date-to-date. If the Employee is not a supervisor, he/she can not view any child's profile.

AMIT

ID	EM_004
Name	AMIT
Department	FOOD
Designation	SECOND CLASS
Salary	5000
Years of working	3
Joining date	01-NOV-19

Edit Profile   Expenses

If the employee is a supervisor, then he can also view the children's profile and information who are under his supervision and make queries by searching different fields.

ID	Name	Age	Bed_no	Gender	Health Condition	Institution Name	Class		Nature
	Filter by name	Lower bound of age / Upper bound of age		Gender ⌄		Filter by institution nam	From / To	View	
CH_006	RATUL	4	6	MALE	HEALTHY	AMARI SCHOOL	2		ANGRY
C_115764	Galib	14	34	MALE	Healthy	AMARI SCHOOL	9		Normal

child id : [   ]

Search

A supervisor can view and edit the child's profile who is under his supervision and can also see his/her health history

Bed no	6
Gender	MALE
Health Condition	HEALTHY
Institution	AMARI SCHOOL
Class	2
Nature	ANGRY
Addressing Date	02-NOV-19
Employee ID	EM_003
Adoption ID	

Edit   Health Info

Any employee can view any particular time's expenses and make queries of the expenses and insert expenses in a particular date and time

Expense type : Stationary

Date	STATIONARY
06/08/2021 06/22/2021	View
21-JUN-21	20
21-JUN-21	100
21-JUN-21	100

nsert

HOME   ABOUT   GALLERY   AI   Log Out

EXPENSE FORM

Expense Field :   Expense Fields ▾

Amount :

Add Expense

BACK

If we log in as a Donor then the donor can see their own profile. He can only edit his name and phone number

| | | | HOME | ABOUT | GALLERY | D_001 | Log Out |

Donor Id	D_001
Donor Name	Amina
Donor Phone	01816713381
Donor Account	acc-21334
Donation Frequency	2

Edit   Donate Now!

DONATION ID	DONATION AMOUNT	DONATION DATE
d60d0efc358cb7	2000	21-JUN-21

HOME   ABOUT   GALLERY   D_001   Log Out

| Donor Name | Amina |
| Donor Phone | 01816713381 |

Update

Amina

If the donor donates some money, this will be added to the earning section of the account where it will be added to the principal amount of the account thus the principal amount gets increased.

HOME   ABOUT   GALLERY   D_001

DONATION FORM

Donation Amount :   1000

Donation Phone :   01816713381

Individual   ▼

Donate!

When the donor donates some money, his or her donated money amount will also be updated accordingly and frequency will be incremented.

HOME   ABOUT   GALLERY   D_001   Log Out

Donor Id	D_001
Donor Name	Amina
Donor Phone	01816713381
Donor Account	acc-21334
Donation Frequency	3

Edit   Donate Now!

DONATION ID	DONATION AMOUNT	DONATION DATE
d60d4f4e7e7fe5	1000	24-JUN-21
d60d0efc358cb7	2000	21-JUN-21

When we register as a donor, we can see the email verification feature where the website's official email will send the donor a mail with a link for account verification. The donor verifies himself as a real person when he clicks the link sent to him by mail. That's how account verification is done.
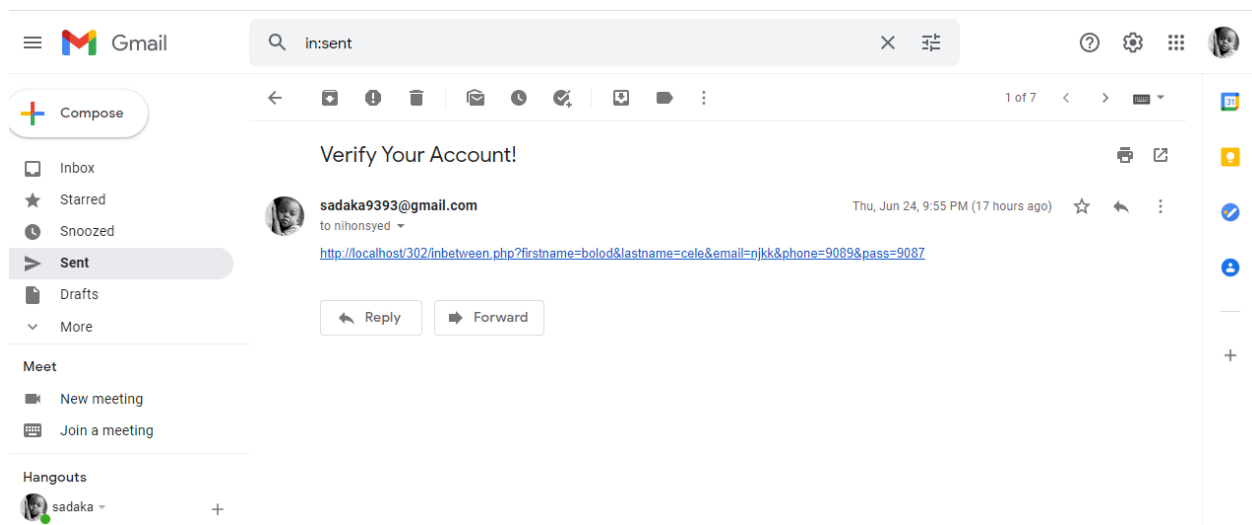
System Requirement

Operating System – Windows 10

Front end languages & IDE	Back end Languages & Tools
HTML , CSS, JAVASCRIPT	PHP , ORACLE 11g
IDE - Visual Studio Code	IDE - Sql Developer Visual Studio Code

Discussion

This project is about an orphanage management system where we keep the data of the whole system saved electronically. Here we can register as a Donor or Foster parent (who wants to adopt a child) and log in as an admin, a donor, an employee, a supervisor and a foster parent. Donor can donate in this orphanage and that donation will be added to the account of the orphanage as an earning. Foster Parent can adopt an orphan child with some court references and with permission of the admin who controls the whole system. Employees' records are kept in the database and supervisors can take care of those children who are under their supervision . Employees can also view and add some records in the Expense's records and see how much money were paid to manage the whole orphanage. If we log in as an admin we have every record of every profile or account who is in that database. Here if we put wrong information for the user log in, it will show an error message. So user authentication is working correctly in this website. Our main feature is adoption. When a foster wants to adopt a child, he/she can send a request to the admin to grant them permission to meet the child and adopt the child.

If the admin (owner of the orphanage) grants them the permission where a court reference is required, then the child will be adopted and it will be updated in the whole database. Another important feature is, when multiple users can access this website, different users will have different view of the website. As in, we don't grant permission to a donor to view Children's profile. Then again, we don't grant permission to a foster parent to edit children's information, he can only view the information. Another important feature is, when the donor makes a donation, it automatically gets updated in the account section where total earning is increased. We also used account verification for the donor where a donor can verify himself if he/she gets mail from the official email of the website.

We used PHP to connect the front end with the backend. We made user authentication easier so that multiple users can access this website and view different parts of the database. Overall, it's a full-stack web development project.

We used Email verification for the donors so that fraud people can not have any access to create his own donor profile.

We used sequence, PL/SQL, Constraints as in Foreign key, Primary key, check constraint, Double joins and Multiple Joins, complex queries, select, insert, delete and edit queries and some queries that had also "where" clause.

Limitation & Future Expansion

The limitation was that we have to search every time with the ID collecting from the table to go into a profile. We could use another method with jQuery to make a dropdown where all the ID's will be available which would have been be nicer to see. To make this website perfect, we can make the frontend look nicer.

In future, we will try to expand this website where we will have dropdown for simplicity of searching the profiles. We will create some views, revoke and grant queries with the SQL.

Conclusion

In conclusion, we can say that we made this website work perfectly where multiples users can use and access this website. Here if we put wrong information for the user log in, it will show an error message. So user authentication is working correctly in this website. Our main feature is adoption. When a foster wants to adopt a child, he/she can send a request to the admin to grant them permission to meet the child and adopt the child.

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