INFO 5100 Application Engineering and Development Final Project

DONATION MANAGMENT SYSTEM

Problem Statement

Children in developing countries are facing several hardships such as lack of nutrient food, lack of education and rehabilitation centers.

We propose to develop a Java Swing application to collaborate with several organizations(donor) which help to provide donation to the orphanages. The application would act as a mediator between the Donor and Orphanage place. Our system provides fund to the orphanage who are in real need requirement. Also, donor from different location or organization can provide donation to the donation system.

Our Proposed Solution

Our application would address various scenarios such as:

- Maintaining a database of all the registered Orphanage/Donor present across the world and the services that they offer.
- The Admin will have access to all the orphanage details and can monitor the progress of a specific orphanage and take actions accordingly to improve overall performance.
- The donor who willing to donate a respected amount can donate by giving their details such as name, address, amount and payment mode details.
- When the admin receives an amount from a donor, an acknowledge message will be sent to the donor. On top of this, An amount that is given by the donor, a mail will be sent to the admin account.
- The system will generate provide an overview of the donation activities of the Orphange across multiple locations.
- Registered orphanage will be able to look for available fund from Donation Management system and request for financial aid and other volunteering services. The application would also allow the users to registered as a full time employee or volunteer to serve a society.
- Helps the organizations involved in supporting underprivileged children by building a bridge between them so that they could communicate and reach out to each other.
- The system will allow to interact with other NGO's for urgency needed funds requirement if in case fund is not available from donor record.
- It also provide an option to gather food from locally availed restaurant and resident homes who are willing to give as part of donation. This food is supplied to the orphanage directly.

Entities

Admin :   Admin is the key entity of our system, who has access to modify or traverse through entire application and its functionalities. Admin will be provided with the username and password.

Employee(Volunteers): There are number of employees in this system which are being categorized into Fulltime and Volunteers. Volunteers are the unpaid employees who are interested in contributing to the social cause.

Donor(Donation) : Donations play vital role in maintaining the Orphanage. And a donor directory is maintained which includes all the information about the donor including amount donated. This entity is categorized into Regular Donors and Occasional donors.

Visitor (Event): There are two types of Visitors which are casual visitors and Event organizers. And their schedule is being setup by the Admin.

Expenses(): It covers utilization of funds which is being provided by donors and government bodies which will be displayed publicly so that no alteration can be done with the money

Adopters: Parents who are willing to adopt needs to qualify eligibility criteria. And their personal are to be stored which will be taken care by the admin itself.

Children : Under the children directory, Every detail of children will be stored and also they can report any kind of issue that they are facing by the management.

Distributer(): This comes under Management class encompassing the utility directory which has list of required utilities necessary for the children and this account will be taken care by distributer head.

Advertiser(): Under Management class, comprising of group of advertisers which will be responsible for posting ads for resources required by orphanage.

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│  Ecosystem  │                    │ Configure a System│
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┌─────────────┐
│   Network   │
└──────┬──────┘
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┌─────────────┐
│ Organization│
│  Directory  │
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┌─────────────┐                    ┌──────────────┐
│Organization │ ─────────────────▶ │  Management  │
└──────┬──────┘                    └──────┬───────┘
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Employee Directory	Child Directory	Donor Directory	Adoptor Directory	Distributor Directory	Advertisers Directory
Employee	Children	Donor	Guardians	Distributors	Advertiser

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┌───────────┐      ┌────────────┐
│ Full Time │      │ Volunteers │
└───────────┘      └────────────┘
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