AED Final Project Report

Title: WeCare Fund Management Suite

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Introduction

This Java Swing application is designed for the WeCare Fund Management Suite, focusing on fund management. It allows system admins to create various user roles (admins) who can perform operations on the data. The primary goal is to manage the data of donations efficiently and streamline the process of fund management.

Introduction to WeCare Fund Management Suite:

In the ever-evolving landscape of philanthropy and social welfare, efficient management of donations and resources stands as a cornerstone for success. Enter WeCare Fund Management Suite - a Java Swing-based application meticulously crafted to revolutionize the way donations are managed and utilized in various humanitarian efforts.

Bridging the Gap in Donation Management:

At its core, WeCare is more than just a software solution; it's a catalyst for change, a tool for empowerment, and a bridge connecting benevolent donors with the causes they care about. The application is ingeniously designed to handle the intricate processes of fund and resource management, making it an indispensable asset for organizations striving to make a difference.

A Platform for Collaboration and Efficiency:

With a keen focus on user-centric design, WeCare offers an intuitive interface that simplifies the complexities of donation management. The suite facilitates seamless communication between multiple entities - from donors to administrators, and from small-scale individual donors to large enterprise-level entities. Each plays a pivotal role in the collective goal of effective resource allocation.

Empowering Through Technology:

Leveraging the robustness of Java Swing, WeCare stands as a testament to how technology can be harnessed for social good. It's not just about managing funds and resources; it's about creating a sustainable ecosystem where every donation is accounted for, every contributor is valued, and every contribution makes a tangible impact.

Features

- **User Accounts**: Each user type (Admin, Donor, Manager) has an individual account.
- **Dashboard**: Users have access to a dashboard for a quick summary of activities and statuses.
- **Authentication**: The system includes register, login, and logout functionalities.
- **Email Confirmation**: Users receive email confirmations during registration and account creation.
- **Input Validation**: Real-time validation status is provided in input fields.

Admin Features

- **Request Handling**: Admins manage donation requests made by donors.
- **Donation Processing**: Admins can process and track the status of donations.
- **Donation Overview**: Ability to view all pending and completed donations.

Donor Features

- **Donation Requests**: Donors can request donations for funds and kits.
- **Request Tracking**: Donors can track the status of their donation requests.
- **Profile Management**: Donors have the option to update their profiles.

Manager Features

- **Request Management**: Managers handle donation requests.
- **Donation Decision**: Managers have the authority to accept or reject donations based on provided details.
- **Donation Tracking**: Managers can track pending and received donations.

Technology

- **Java Swing**: The graphical user interface for the application.

Prerequisites

- **NetBeans**: The IDE required for running the application.
- **JDK 14**: The Java Development Kit version 14 must be installed.

Instructions to Run the Project

1. Clone the repository from [GitHub](#).
2. Open the project in NetBeans.
3. Build and run the project.

Enterprise Structure

- Donation Enterprise
- Funds Enterprise
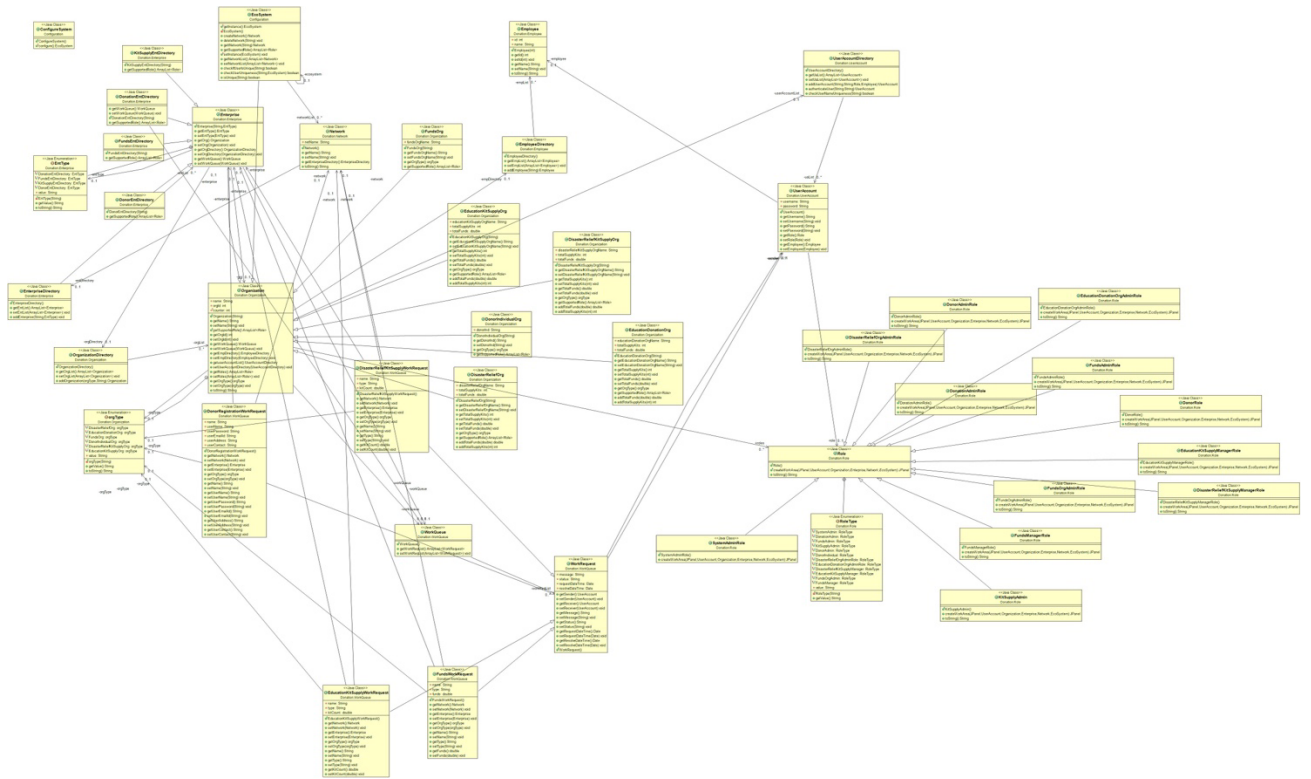- Kit Supply Enterprise
- Donor Enterprise

Organizations

- Disaster Relief Organization
- Education Donation Organization
- Funds Organization
- Individual Donor Organization
- Disaster Relief Kit Supply Organization
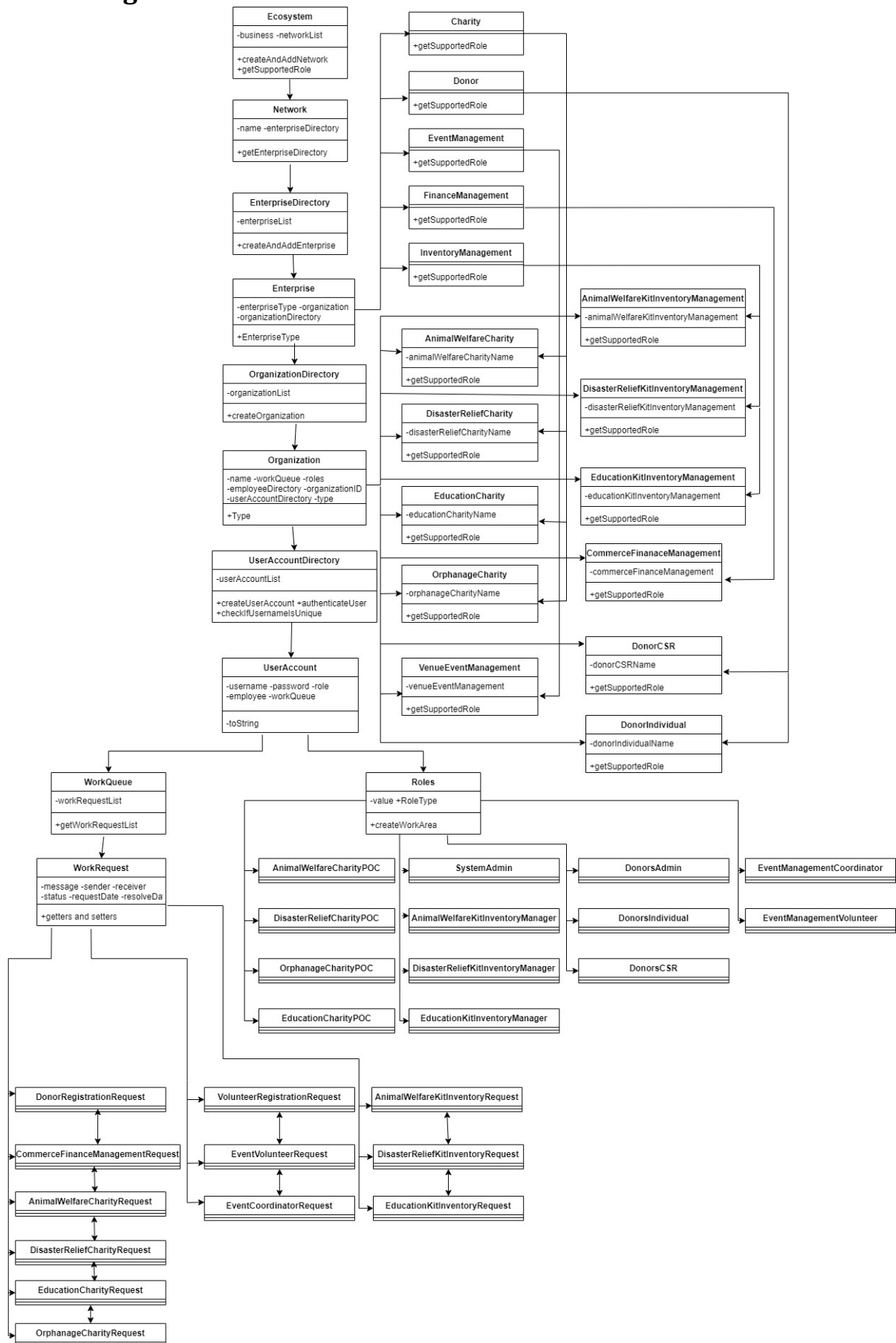- Education Kit Supply Organization

Roles

- System Admin
- Donation Admin
- Funds Admin
- Kit Supply Admin
- Donor Admin
- Donor Individual
- Disaster Relief Org Admin
- Education Donation Org Admin
- Disaster Relief Kit Supply Manager
- Education Kit Supply Manager
- Funds Org Admin
- Funds Manager

UML Diagram

Class Diagram:

Solution:

There are several factors that would be considered at the time of donating and receiving donations, be it funds or donation kit. The management of funds, management of kits and the updates for the transaction throughout the system. Our application handles all those efficiently while providing updates through the work queue transaction implemented. The Administrators have admin privileges to manage their respective area of work and the users can take part in the transactions and get updated via the corresponding statuses. Administration can make relevant improvements in their system where lacking.

References

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