

INFO 5100 Application Engineering and Development
MediCare

Submitted by

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Problem Statement :

There are a number of old age homes across the world, but very few of them have enough resources. This can have a negative impact on the quality of life of the older people. Governments and health professionals are challenged to develop programs and interventions that would enable the older persons to enhance or maintain their quality of life.

We propose to develop a Java Swing application to collaborate various organizations involved in providing facilities to Old age homes across the world. The application would act as a mediator between the Trusts and members of society. It will allow the users to provide services such as Basic Amenities, Sponsor their medications and Fund Medical Treatment and enables the Trusts to address these services. We will then be able to monitor the different types of services and their resolutions, and view statistics regarding the same.

Proposed Solution :

Our application would address various scenarios such as:

- Maintaining a database of all the registered Trusts present across the world and their current projects grouped by their location and the services that they offer.
- Helps the organizations involved in supporting old aged people by building a bridge between them so that they could communicate and reach out to the Old Age Home. The system will allow users to request for services such as medical treatment and medicines.
- The application will also allow the users to donate basic day to day amenities to the Trusts.
- Facilitates the involvement of citizens and provides hotline support within the application in the event of an emergency.
- The system will be able to analyze the performance of the Trusts based on the number of cases that receive and the number of cases the services are provided.
- The system will generate statistical graphs which categorize the various types of services being addressed and provide an overview of the primary activities of the Trusts across multiple locations.
- Registered users will be able to look for Trusts in the vicinity and apply for available job vacancies and volunteering services. The application would also allow the users to check up on the job application status or choose to drop their application.
- The Trust head will have access to all the branches and can monitor the progress of a specific branch and take actions accordingly to improve overall performance.

Proposed Entities:

1. System Admin
2. Manager
3. Co-ordinator
4. Guest User
5. Applicant
6. Care Taker
7. Doctor

Key Functionalities :

1. Co-ordinator: Co-ordinator can view any ongoing service request and take up the request to work voluntarily. He also updates the status of the service request.
2. Guest: Guest can raise an ongoing service request, can sign up as a funding agency and can view Trust details.
3. System Admin: System admin can manage Country, state, city networks and can also manage Trust in these particular networks.
4. Manager: Manager manages the tasks posted by guests, admin as well as manages the funding agencies.
5. Applicant: Applicant can apply for a job in Trust and can view his application status.
6. Care Taker : Accepts the Old Age people from the Co-ordinator, Keeps the records and assigns the senior citizen to the Doctor based on age and Health Problem
7. Doctor : Accepts the Senior Citizens from Care Taker.

Eco- System Architecture :

