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**COMSATS University Islamabad (CUI)**

Software Design Description  
(SDS DOCUMENT)

for

**Global Reach**

Version 1.0

***By***

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# Introduction

Global reach is a web application which shall target donations and help raising campaigns more effectively. Admins, Donor, and beneficiary these shall be our main actors. When the user visits our website, he/she shall have the option to sign up as a donor or beneficiary. The user will give his Email and password. When the user signs up as a volunteer or beneficiary, the user will have a separate dashboard for himself. The donors can participate in different events held by the organization. The beneficiary on the other hand will be able to request the admin for any need and then the admin will make a campaign for the beneficiary and set the amount needed. Upon completing the required amount, the campaign will be marked resolved. The volunteer on the other hand can even adopt a child and donate to any campaign as much as he wants. The admin can even integrate the Facebook or Instagram posts into websites related to any campaign. The visitors on the website can even share the campaign on their social media accounts. This web app will show the annual revenue generated through artificial intelligence. The revenue generated will be based on 3 months analytics. Our system will check the donor’s activity on the website and send him the campaign recommendations in accordance with it. The donations will be completely transparent, and a receipt will be generated for him. The receipt will have the name of the campaign and donation amount and the donor’s name.

The system proposed is related to the idea of developing a website and an admin panel for the management of a charity organization so that it can make funding and other processes easier and more manageable. The existing systems are focused on some simple donations, but our main goal is to give the donors and users surety that their money is being used in the right place. We will be showing analytics to our user to show how much donations are being made each month and from each city. User/Donor must make an account and then he can choose to donate for different events and different causes. The user has the power to choose to donate on a specific cause. The volunteer can get training from us that will teach them life skills. Unlike the other websites that only ask for donations and are not specifying that what are they using their donor’s money specifically for, we will allow the user to pay for a specific event and then show them the results. We will build a website that targets on helping the community with poverty, education and even adoption system.

We will have separate admin panel in our website. That will be controlling the whole functionality of website. There will be Super admin and below the super admin there will be admins. Each admin has the same right, but the super admin has the right to delete or insert an admin, super admin can also perform all the task performed by an admin. The admin will be adding or deleting or updating the donors. The admin can check record of the beneficiaries. The admin can be contacted by the donors via chat bot. The admin can be contacted by the beneficiaries via a form. The form will be submitted to admin, and he will receive the form in the mail and then he can reply to the beneficiaries. Admins can check the money transfers and all the data in the database and the money will be transferred via credit card, Debit cards.

There shall be chat bot services for our users and volunteers. That if they are in a medical emergency, if they want to ask detail directly about the donations that they made or any contact system. Our chat bot shall be there. The chat bot will then lead the user to either two three options or one of that will be calling the support regarding their issues. Issues regarding funding.

We shall create a picture gallery of Instagram post. Where a user can view the pictures of our volunteer work. YouTube videos shall be integrated on the website to generate more views. To every campaign and donation social share links for that post will be provided to the visitors on website. Social media links for Facebook, Twitter, Instagram, and You Tube Channel shall be provided on the website. We shall be giving latest news about our success with helping the orphans, helping with flood effected area and telling the viewers about the growing need for donations in this world and how have we helped the poor with the donations from our donors. System reminder shall be set for volunteers alone. In case of event or campaign creation selected volunteers shall receive an automated email 2 hours before the event as a reminder. This module will send weekly email to the donors and have confirmation of payment transaction via email.

# Design Methodology and Software Process Model

We are going to follow Object oriented development approach. Using frameworks like React and redux for our UI/UX Object oriented development programming is much more suited for the application and it is an efficient approach.

Incremental Methodology will be used in which making changes to the basic design is easy. In case there are any errors introduced because of the changes made, rectifying them is also easy. Since requirements are broken down into multiple standalone modules.

# System Overview

## Architectural Design

A system architecture is the conceptual model that defines the behavior, structure, and views of a system. An architecture description is a formal description and representation of a system, organized in a way that supports reasoning about the behaviors and structures of the system. Global React will follow hybrid architecture. As Global React is based on heavy user interaction so we will use MVC design pattern at application level. Client architecture will have MVC (Model-View Controller) pattern, which will communicate with server. It will have 2-tier architecture. Client (Web Application) will send requests to read and write data on server. Application retrieve and send data to database (Mongo DB). Furthermore, application will also communicate with database to send requests and get responses

# 7. Conclusion

“Global Reach” will be an AI-based web system that provides all features to donors and beneficiary in a single platform for the ease of the donations. We will learn major concepts of data transaction, and APIs. We will try to complete the system in time according to the Gantt chart.

# References

* <https://www.chhipa.org/>
* <https://edhina.org/>