SYSTEM ANALYSIS AND DESIGN PROJECT PROPOSAL

PREPARED FOR

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EXECUTIVE SUMMARY

In this Volunteering Service system, we are going to reduce the distance between individuals, who are looking for the opportunities to help others as a volunteer and charities, that want to find volunteers for sustainable works.

Anyone with any proficiency can sign up to help! There are many experts out there who want to help people. And on the other hand, there are opportunities which need some proficiencies plus the budget itself, to be solved.

The budget for any charity project is the other opportunity to help. People can have a share in order to financially supply projects.

Beside the system we are building, we should have a plan to enthuse people to join as volunteers; we can, for example, make some facilities for them to appreciate their devotions.

In the following project, we will analyze, design and evaluate a Volunteering services system in order to make

1. Overview

In the system, everyone can sign up to become a volunteer and based on his or her location of service he can participate in charitable projects as an expert. We can have skills in some hierarchical structure, so a volunteer can easily find them.

Anyone can register to his or her own account, complete the information, maybe get verified and activate it, and search for the opportunities right for him or her.

And an opportunity has an estimation of working hours, place, category and budget to be done.

In this system, We are focusing on skills and not the budget. We just have a fraction of money to be shown to people and ability to fulfill it.

Everyone has access to the web from the mobile or desktop, so we will deliver our product through the web too.

2. Teams

- **Analysis and Design** this team should analyze the needs of the system in order to satisfy stakeholders and client of the project, and design abstract procedures to achieve the goals of it.
    - Using MVC pattern
- **Test and assessment** all the developers should be a member of this team so that they create tests before developing code and check if there is no problem in the close future. The team should give feedback to the technical teams too.
    - Using unit test, functionality test, and integration test
- **BackEnd development** this team will handle the communication between UI layer and Database, and manage the logical services.
    - Using Django framework in python
- **DataBase development** this team should manage the management and manipulation of data, separating it from the logical backend things.
    - Using PostgreSQL
- **FrontEnd development** this team will manage the interface between logics of system and users and should improve the user experience.
    - Using HTML, CSS, JavaScript, Bootstrap

- **Documentation** this team should make concise and complete reports for each step of analysis, design, and implement of the system, so we can have a better view of procedures and problems in the way of creating it. The team should include someone from each team to gather the problems.
    - Using Readthedocs and GitHub series of commits
    - User Documentation should deliver with the system

3. List of Stakeholders

1. **System Owner** the client who ordered the project and own the rights of it
2. **System Designers** the team that analyzes, design and build the system. We included the maintenance team in this group too.
3. **System Users** we named them users, the people who work with the system after build, like the employees, volunteers, and charities which seek for help.

4. Milestones and Reporting

Milestone	Tasks	Date
1 - Analysis and Design		
1.1	Report analysis of the requirements	30 Aban
1.2	Report analysis and modeling data	12 Azar
1.3	Report analysis of procedures	3 Dey
2 - Development		
2.1	Create DataBase	21 Dey
2.2	Design User Interface	24 Dey
2.3	Complete BackEnd	28 Dey
3 - Deployment		
3.1	Deployment to Server	15 Bahman