Project Report: "Give Hope" - A Charity Donation Website

Live Link (hosted on github pages):- https://30debrup.github.io/GiveHope/

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Executive Summary

The "Give Hope" project is a charity donation website designed to provide an easy and user-friendly platform for individuals to make donations to their favorite charities while enjoying tax deductions. The project uses a tech stack consisting of HTML, CSS, PHP, and MySQL to create a secure and efficient web application. This report provides an in-depth view of the project's development, features, and future potential.

Project Description

"Give Hope" aims to connect generous donors with reputable charities, making it easier for them to contribute to meaningful causes. The website offers a seamless and secure experience, including user registration , charity listing, tax deduction information.

Technology Stack

The website is built using HTML, CSS for front-end design, PHP for server-side scripting, and MySQL for database management.

System Architecture

The system architecture of the "Give Hope" website consists of both front-end and back-end components, each playing a crucial role in delivering a seamless user experience. The technologies involved in the architecture include HTML, CSS, SQL (for database management), and PHP (for server-side scripting). Here's a detailed breakdown of how these components interact and function together:

1. Front-end (HTML and CSS):

- **HTML (Hypertext Markup Language)**: HTML is used to structure the content of the web pages. It defines the layout and structure of the website, including the presentation of text, images, forms, and links.
- **CSS (Cascading Style Sheets)**: CSS is employed for styling and design. It determines the visual appearance of the website, including fonts, colors, layout, and responsive design for various screen sizes.

2. Back-end (PHP and SQL):

- **PHP (Hypertext Preprocessor)**: PHP serves as the server-side scripting language. It handles user requests, processes data, interacts with the database, and generates dynamic web content. Key functions of PHP in this system architecture include:
  - User authentication and session management.
  - Donation processing and validation.
  - Communication with the SQL database for data retrieval and storage.

- **SQL (Structured Query Language)**: SQL is used to manage the website's database. It stores and retrieves data related to users, charities, donations, and tax deduction information. The database structure includes tables for:
    - User profiles and authentication data.
    - Charity information, such as names, descriptions, and donation history.
    - Donation records, which link users to their contributions.
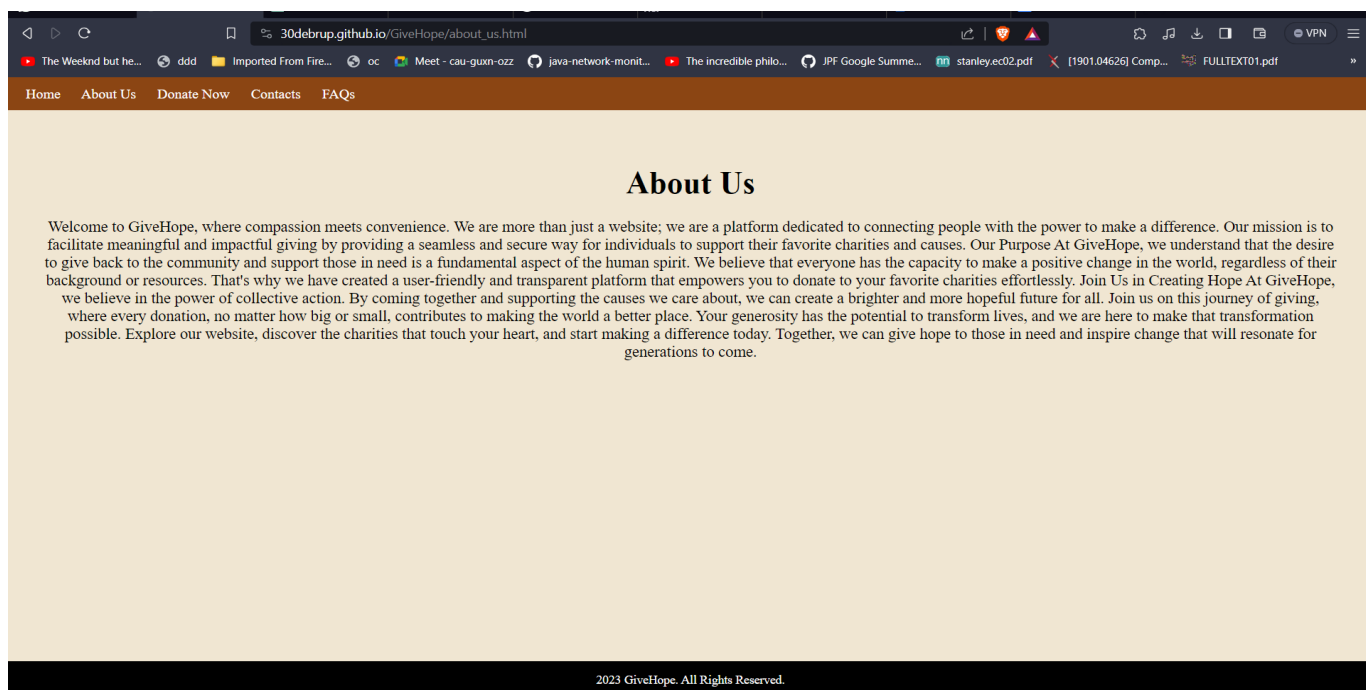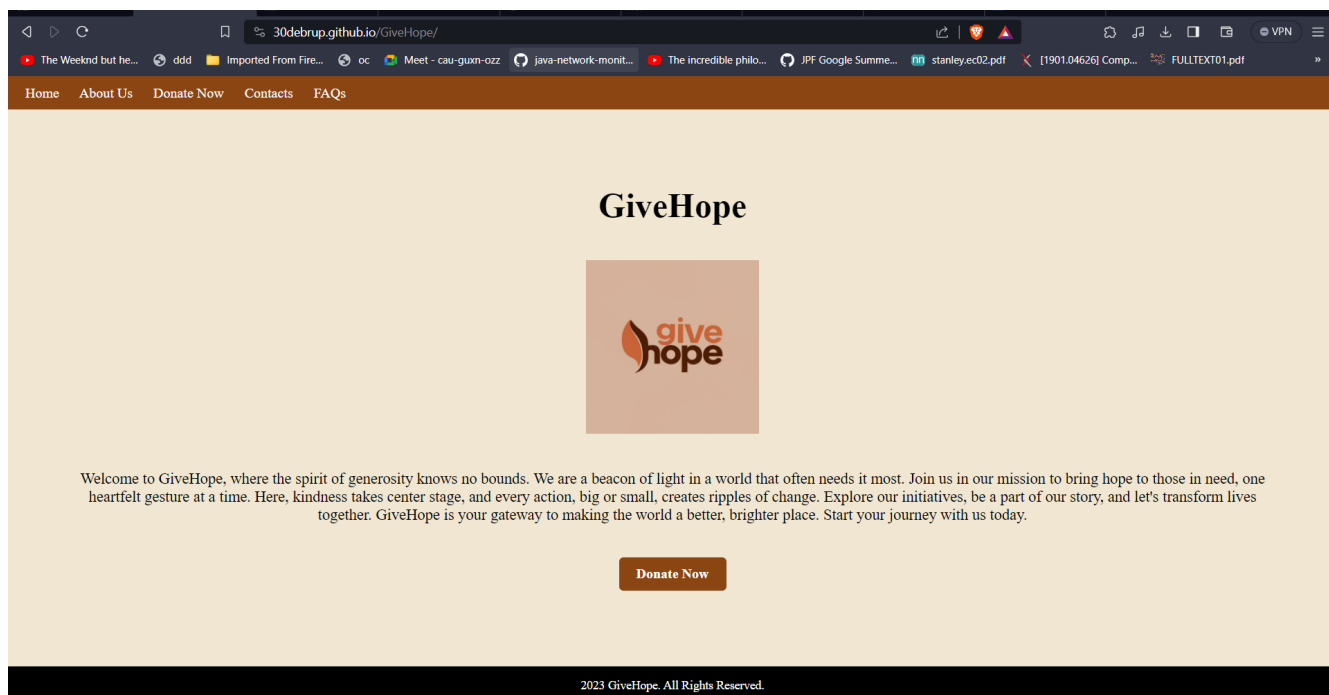   - Tax deduction data, including calculations and history.

3. Interaction between Front-end and Back-end:
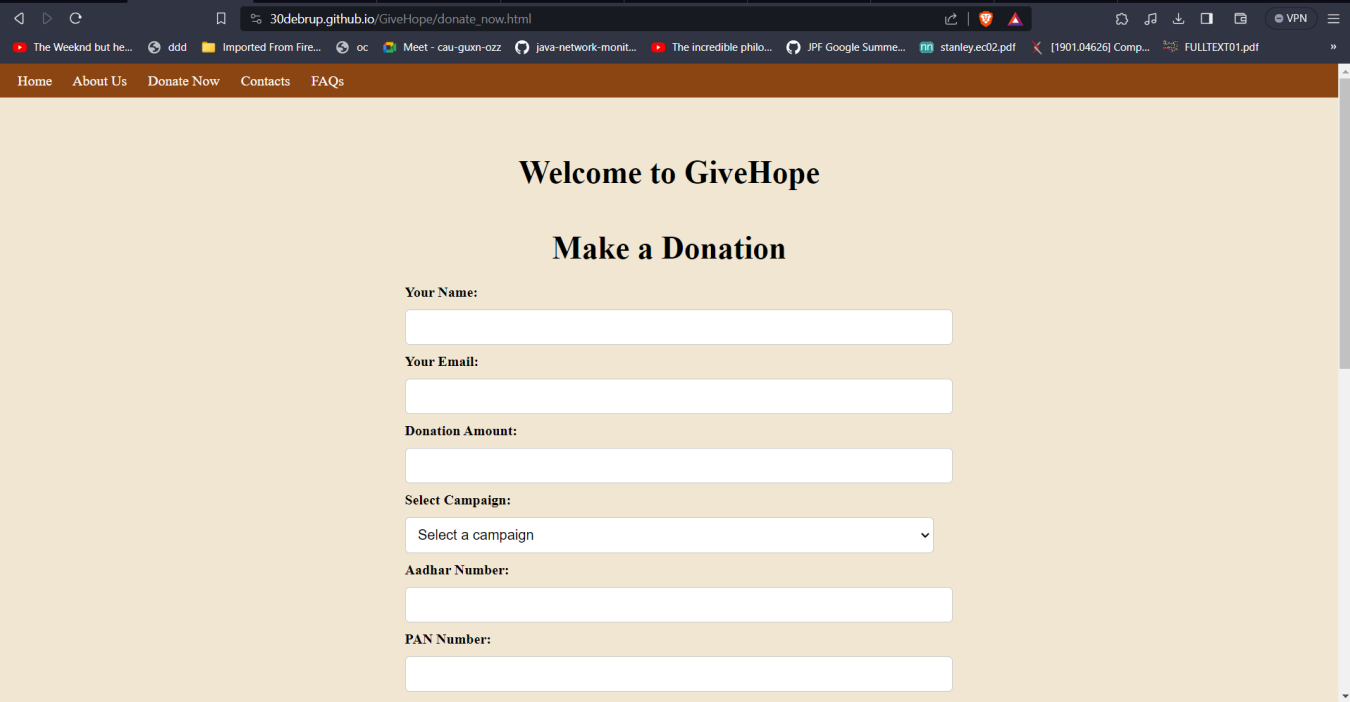
- User Interface (UI): The HTML and CSS of the front-end create the user interface, allowing users to interact with the website.
- User Requests: Users interact with the website by submitting forms, clicking buttons, and navigating web pages.
- PHP Handling: PHP scripts receive and process user requests, validate data, and interact with the SQL database.
- Database Interaction: SQL queries and transactions are used to retrieve and store data in the database.

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Design and User Interface

The website's design focuses on user-friendliness and a pleasant user experience. It is designed to be intuitive and visually appealing.

Screenshots of our UI

Welcome to GiveHope

Make a Donation

Your Name:
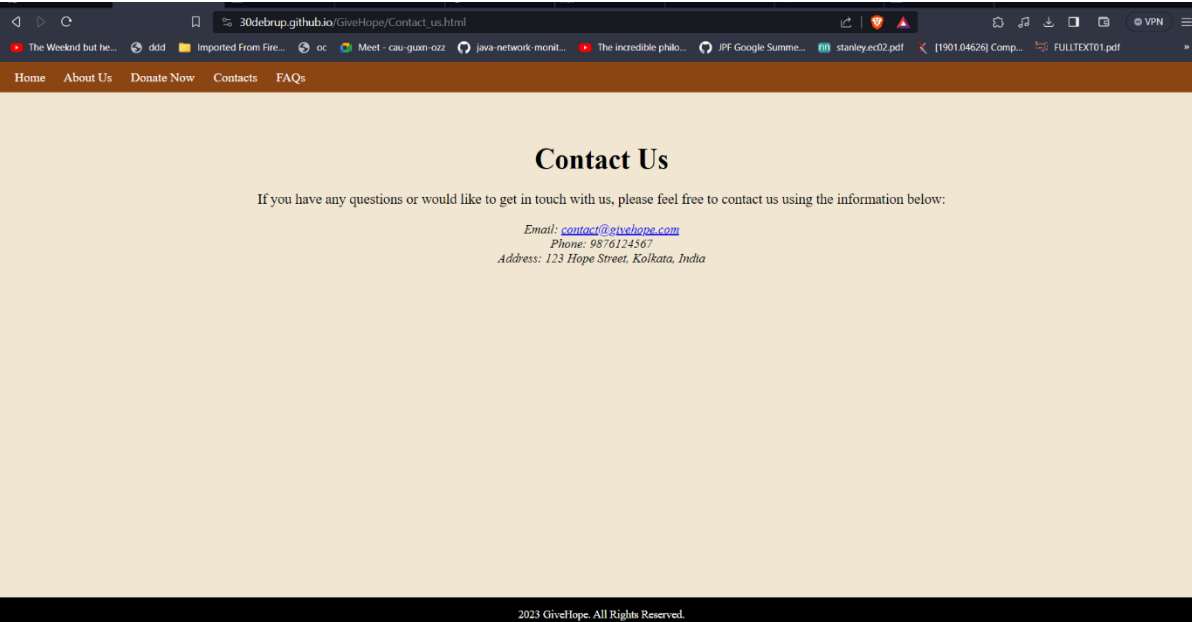
Your Email:

Donation Amount:

Select Campaign:

Select a campaign

Aadhar Number:

PAN Number:
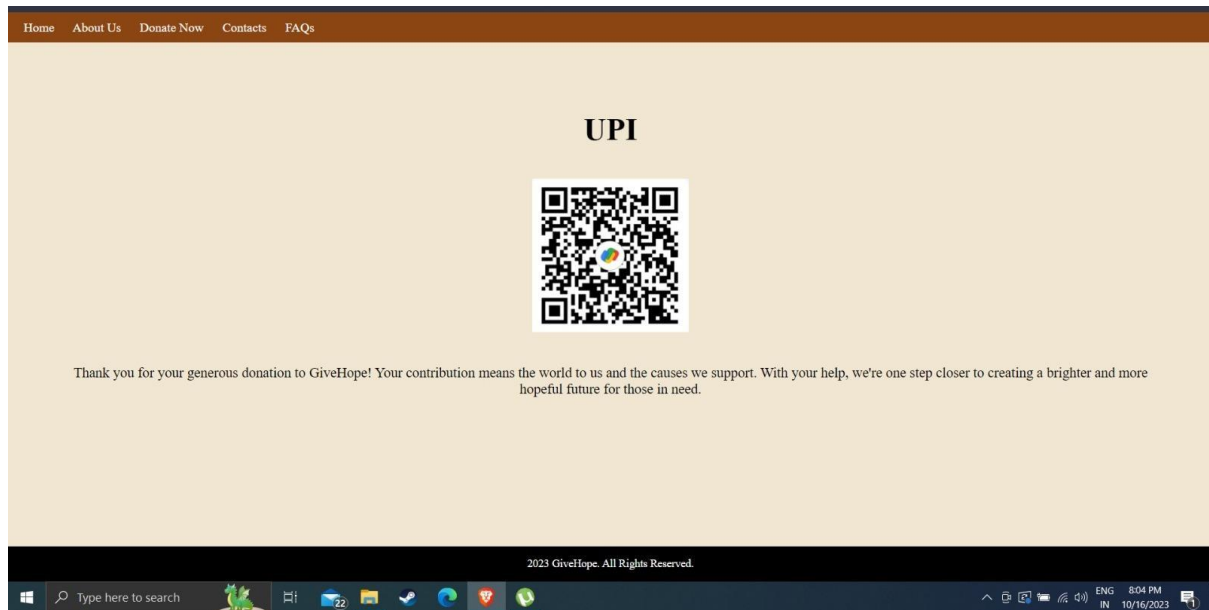

Contact Us

If you have any questions or would like to get in touch with us, please feel free to contact us using the information below:

Email: contact@givehope.com
Phone: 9876124567
Address: 123 Hope Street, Kolkata, India

Features and Functionalities

"Give Hope" offers features including user registration, charity browsing, donation management, tax deduction calculations, secure payment processing, and user profiles.

Database Schema

The MySQL database is structured to store user data, charity information, donation records, and tax deduction information securely, including the three tables: **donate**, **personaldetails**, and **paymentinfo**.

donate table

paymentinfo table

personaldetails table

Tax Deduction

Incorporating information on how much users can claim tax deductions for their charitable contributions in compliance with Section 80G of the Income Tax Act is a valuable addition to our website.

Project Timeline

The project was initiated on 14/08/2023 and completed on 17/10/2023.

Future Enhancements

1. Mail Merge Integration:

- **Personalized Communication**: A mail merge feature has been added to allow the platform to send personalized messages, emails, or newsletters to donors and charities. This enhances communication and engagement.
- **Customizable Templates**: Users can create and customize templates for communication, making it easy to convey specific messages or updates to recipients.
- **Scheduled Communication**: Scheduled mail merge ensures timely communication with donors, charities, and stakeholders, strengthening relationships and providing updates on charitable activities.

(Note:- Mail Merge has already been integrated in out system but since it is hosted on githubpages so it cannot run our backend php scripts as this platform can host only static sites however we have tried and implemented it in our localhost system)

2. Secure Payment Gateway:

- **Online Payment Processing**: The addition of a secure payment gateway ensures that all financial transactions on the platform are handled with the utmost security and efficiency.
- **Payment Options**: Donors have the option to make payments using a variety of methods, including credit/debit cards, online wallets, and other popular payment methods.
- **Data Encryption**: All payment data is encrypted, providing a secure environment for financial transactions.
- **Transaction History**: Users can access their transaction history, which includes details of their donations, making it easier to track their contributions for tax purposes.

Conclusion

In conclusion, "Give Hope" is a significant contribution to the world of online charitable donations. It offers an accessible platform for users to support their chosen charities while enjoying tax deductions.