CHARITY SERVICE MANAGEMENT SYSTEM
-MAKING WORLD BETTER-

HANDS FOR SMILE

Non-profit organization

Developed by:

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EXECUTIVE SUMMERY

Our main intention was to develop a website for non-profit organization. Basically, we selected it just because almost all the volunteering websites are same. We wanted to design a unique website for a non-profit organization. Therefore, we selected a non-governmental upcoming and nonprofit volunteering organization called Hands for Smile. It was so perfect organization for our intention.

First our team researched about various nonprofit organizational websites. Then we created a website in our way. We used local cloud for this project. Because our business case is limited. Mainly this is for a society or organization. And they all are giving non profitable volunteering service for the outside society. So, we mainly looked in to the ways that how can us increase the member base of organization and how to give good impression on the organization. So, our main objective was to create a unique and timely solution for nonprofit organizations. We think we could achieve our goal and objective well in the end of our project.

We wanted a build the best cloud base SaaS application for hands for smile nonprofit organization which gives contribution for improve standards of living and education of children. Keeping databases of organization and tracking data of children who wants the help from this organization. We wanted to show all the projects, all works in detail and give a chance to the people to knit together with the organization. So HFS organization is the best example organization for our work. We choose this organization because of that.

BUSINESS CASE IDENTIFICATION

Basically, as I mentioned before this project is to make a gateway to the organization and outside society. Therefore, this system is an online application that can be accessed throughout the organization and outside as well without any logging into the website. This system can be used as a data collector for organization too. Even though users and visitors logging should not be able to upload their information in to the form if someone wanted to registered with the organization, they can fill the registration form compulsorily. Because we don't need their information if they are just visitors or already members.

For the newly registers members, they have to pay some fee as membership. This membership is the only income for the organization just because we are focusing on non-profit organization. But as web developers we are doing a job. So, we have included a deal with the organization for 20% from the membership fee for the development of the website. And also, we hope to develop this website which can do transactions directly with bank.

The main problem to build a business case for this website is this organization doesn't provide any product or service for almost all the visitors. They give their service for specific side of society and that service can't be charged and valued. So, as we are developing a website for such a non-profit organization, we can't make more money from this website. But we can make money from the traffic and 20% of membership as being a mediator between organization and outside society.

Compared to other websites, the features of our website are:

- User friendliness is provided in the application with various controls.

- The system makes the overall project management much easier and flexible.

- Readily upload the latest updates.

- Provides high level of security with different level of authentication.

- Customer Support; This web site support by both phone and e-mail.

BUSINESS MODEL

As I mentioned before we are supposed to get 20% from every membership fee. This can make as revenue while increasing the member base and capital of organization as this is nonprofit organization. In this kind of situation our main target customers are the donators and the new members who need to join with our organization. And also, donor's companies can advertise any advertisements they want with the required information.

And also, we hope to get the benefit from the traffic to the website. When the traffic is increasing, we can do these things to make money from our website.

- **Make money from google ads**

AdWords are the advertisements that show up on the top of Google search result pages. AdSense is the reverse, allowing publishers to tap into Google's immense advertising network so that other advertisers can run ads on our website. Once we sign up, Google will place a simple code on our system that will identify the content of our system and start displaying relevant advertisements. We get paid each time someone clicks on the ad. Our cut might be anywhere from $0.50 to $5 per click. When our site has enough traffic, we can make hundreds (if not thousands of dollars) each month.

- **Sell Ad Space.**

Sell our own ad space directly to companies looking to sponsor different blogs. We can come up with a price for each space. We can get paid depending on how many visitors we get. Typically, it's quoted as a dollar amount per one thousand impressions (or CPM). We might see it as $5 CPM. If the website gets 100,000 visits a month, that ad price translates into $500 bucks. The good thing about this approach is that if our site gets a ton of traffic from different sources, our simple banner ad pricing can go up to as high as $5000 per month! The obvious downside is that if our site doesn't get a lot of traffic, we can't expect to earn much either.

- **Sell Sponsored posts without follow tag**

Any companies go out of their way to look for blogs that will feature their sponsored content. 'Native advertising 'like this works well because it lines up with our site's primary content and it comes across as relevant and transparent. We can also review the products from a company in an 'advertorial' that's part content, part advertisement.

We chose this idea as a solution for the non-profit organizations always facing with the financial problems. Most probably they are depending on funds and sponsorships. And with the value of the service, they give they have no any profit from what they are doing. So, it is hard to them for rent website developers or maintain their reputation between a website and organization.
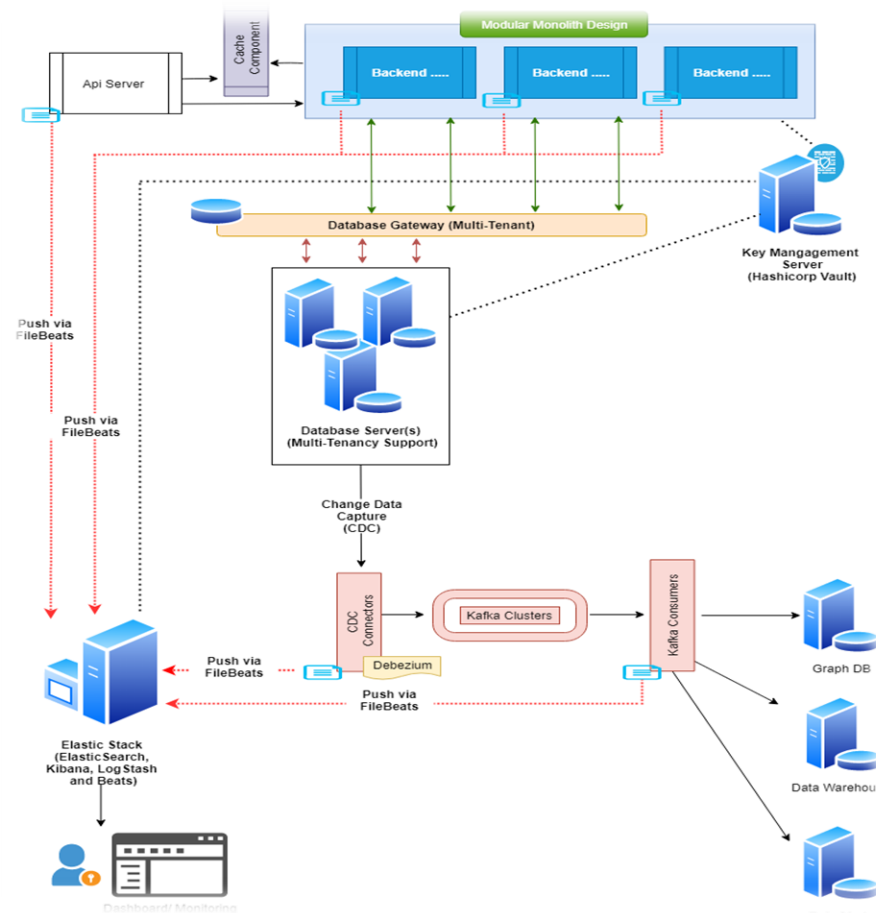
Because of that we both parties agreed to such kind of deal. With this both of us can earn a revenue. They get our SaaS service and we get a revenue for our service.

Difference between SaaS services and traditional web services;

- This Website, unlike any other traditional service, has the ability to update and update new information at any time.

- At the same time, this website is not like a traditional service, it is made by Cloud applications that are compatible with existing websites.

- Traditional Websites offer a free trial and you will have to pay a subscription fee at this SaaS service.

- The main advantage of this SaaS service is the ability to log in from any device. A traditional service website can only log in to a website from one device.

SAAS ARCHITECURE AND IMPLEMENTATION

What is SAAS Architecture?

SaaS is stands for software as a service. SaaS architecture refers to a method of software delivery, in which a vendor hosts an application on a remote server for an organization before delivering the app's capabilities to that organization's end users over the Internet. This model allows multiple companies or organizations to share a single model and a single configuration. This means that these organizations access the same hosted application, including the same hardware, operating system, network, and other components. In this architecture there are different types of characteristics

1. **Multi-tenancy Model**: Multi- tenancy is a kind of software architecture in which a single deployment of a software application serves multiple customers. Each customer is called a tenant.

2. **High Availability:** SaaS applications are shared by multiple tenants and the availability of kind of applications are expected to be really high throughout. So, the Software as a Service applications should provide a high degree of SLA to their customers. Applications should be accessible 24x7 across globe. Also, SaaS applications should expose management & monitoring API to continuously check the health/availability factor.

3. **Data security:** Ensuring that the data/business information is protected from corruption and unauthorized access is very important in today's world. Since the Software as a Service applications are designed to be shared by different tenants, it becomes extremely important to know how well the data is secured.

4. **Application Security:** SaaS applications should be equipped with protection against vulnerabilities. Typically, they should be protected against OWASP/SAN identified vulnerabilities. Also, strong identity and access management controls should be enabled for SaaS applications.

And the other aspects that make software as service application secure are the following,

- Strong session management, protection against hijack the session
- Identifying unauthorized session, protection against multi-session etc.
- Usage of cookies not storing sensitive data, follow Cookie etc.
- Step-Up authentication like password locks out etc.
- Multi factor authentication
- Strong implementation on separation of duties
- Protection against DoS/DDoS
- Protection against buffer overflow attacks
- Also, integration points open with CASB will help in gaining confidence of the customers.

Algorithms.

We have not used any algorithm to implement this software.
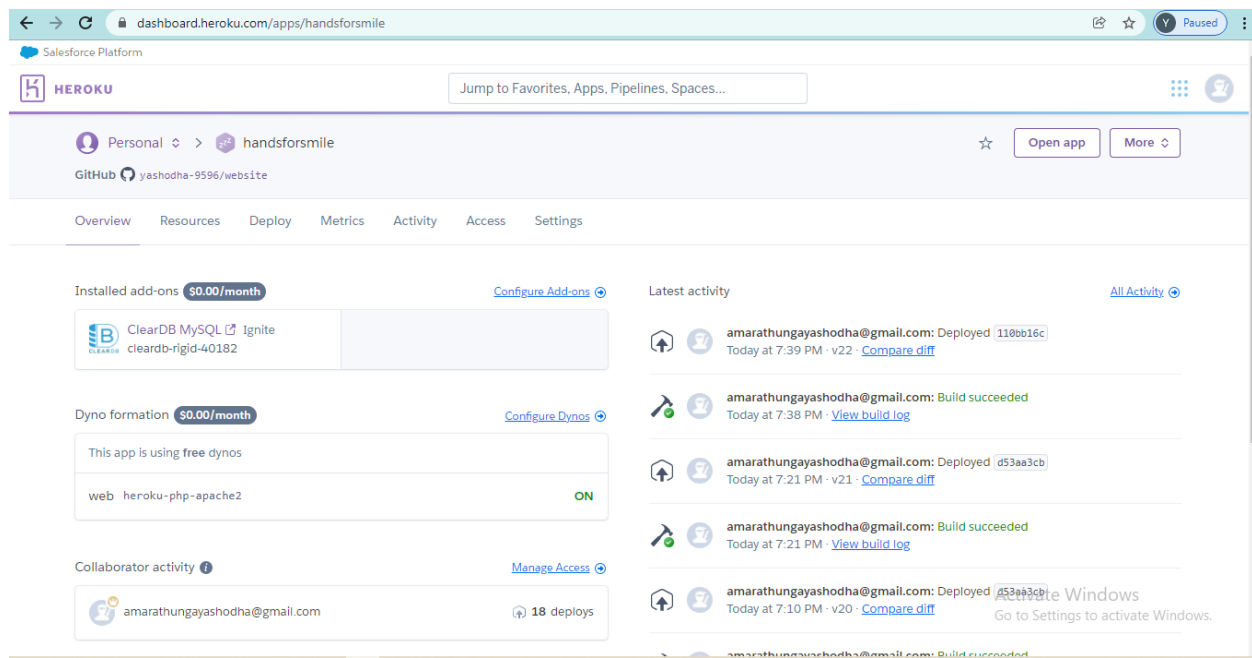
Solution methods and implementation.

❖ When we are implementing this software, we have used HTML, CSS to create the front end of this app. By using HTML, we made the structure of this app. With the help of CSS, we done the designing part of this app. Also, for describing the presentation of web pages, including colors, layout, and fonts. It allows one to adapt the presentation to different types of devices, such as large screens, small screens, or printers. CSS is independent of html and can be used with any xml-based markup language.

❖ We have used PHP as the backend developing language. That can be used to develop dynamic and interactive websites. It was among the first server-side languages that could be embedded into html, making it easier to add functionality to web pages without needing to call external files for data.

❖ We have used My SQL server to store data. We used clearDB as the database hosting site. We used heroku as the web site hosting platform. Visual code studio was our code editor. We used XMAPP which is an abbreviation for cross-platform, Apache, MySQL, PHP and it allows you to build WordPress site offline, on a local web server on your computer. We built static website without any website building sites.

Limitations

❖ We created this website based on charity organizations. So, most of the projects do not bring us big revenue due to non-profit.

❖ There is not much website traffic so there is no high subscription cost. And the officers and directors do not receive profits.

Working Prototype.

For the implementation part, we used git hub, Heroku and clearDB as tools and technologies. As the first step of coding, we create a new repository as "Website". Then our group members implemented web pages in this repository. After that, we host this page using the Heroku platform.

index.php - website - Visual Studio Code

File Edit Selection View Go Run Terminal Help

index.php project.html donation.html styleDonate.css 1 staff.html style.css volanteer.html hfs1.sql

```php
1   <?php
2   $string = '<!DOCTYPE html>'.
3   '<html>'.
4       '<head>'.
5           '<meta name="viewport" content="width=device-width,initial-scale=1.0">'.
6           '<title>Hands For Smile</title>'.
7           '<link rel="stylesheet" href="style.css">'.
8           '<link rel="preconnect" href="https://fonts.googleapis.com">'.
9   '<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>'.
10  '<link href="https://fonts.googleapis.com/css2?family=Roboto:ital,wght@0,100;0,300;0,400;0,500;0,700;0,900;1,100;1,300;1,40
11          '<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/@fortawesome/fontawesome-free@5.15.4/css/fontawesome.min
12      '</head>'.
13      '<body>'.
14          '<section class="header">'.
15              '<nav>'.
16                  '<a href="index.php"><img src="pic/logo2.png"></a>'.
17                  '<div class="nav-links" id="navLinks">'.
18                      '<i class="fa fa-times" onclick="hideMenu()"></i>'.
19                      '<ul>'.
20                          '<li><a href="index.php">HOME</a></li>'.
21                          '<li><a href="about.html">ABOUT</a></li>'.
22                          '<li><a href="project.html">PROJECTS</a></li>'.
23                          '<li><a href="staff.html">STAFF</a></li>'.
24                          '<li><a href="volanteer.html">VOLUNTEER</a></li>'.
25                          '<li><a href="donation.html">DONATION</a></li>'.
26
27                      '.
28                      '</ul>'.
29                  '</div>'.
30                  '<i class="fa fa-bars" onclick="showMenu()"></i>'.
31              '</nav>'.
32          '.
33          '<div class="text-box">'.
```
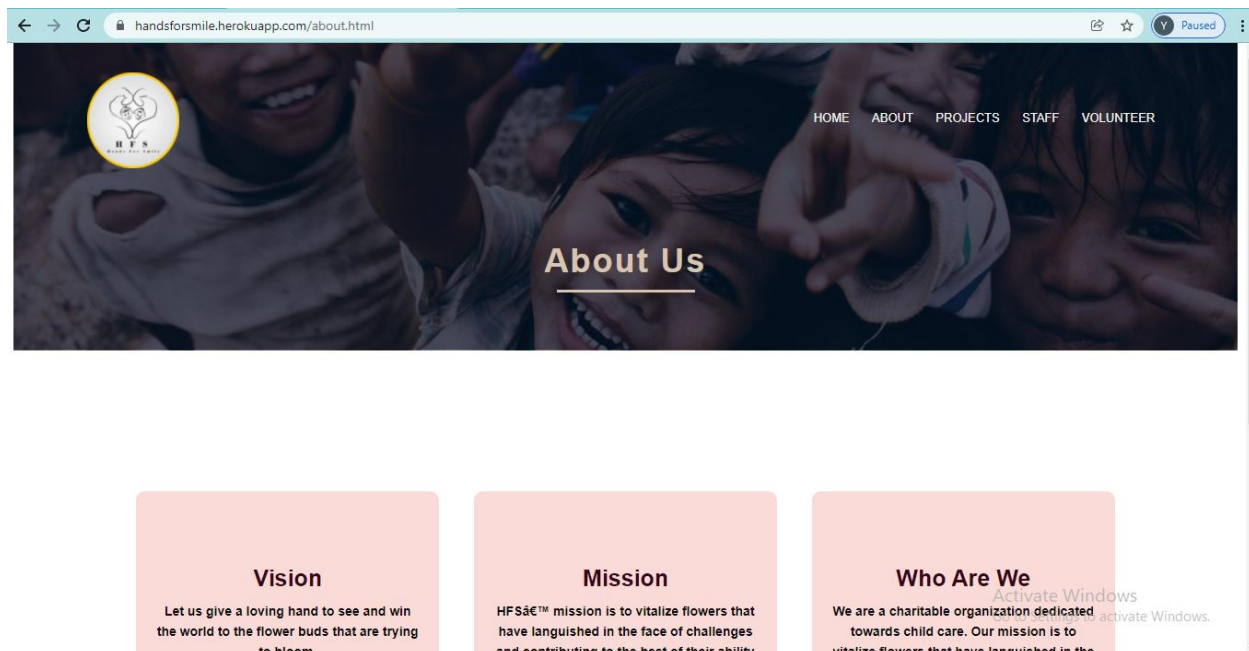
Activate Windows
Go to Settings to activate Windows.

insert.php - website - Visual Studio Code

File Edit Selection View Go Run Terminal Help

project.html donation.html styleDonate.css 1 staff.html style.css volanteer.html hfs1.sql insert.php

```php
6   ead>
7
8   dy>
9   <center>
10      <?php
11
12  $servername = "us-cdbr-east-05.cleardb.net";
13  $username = "b50bc7c5dabbc7";
14  $password = "12838e21";
15  $databasename ="heroku_9bf96b83611db46";
16      $conn = mysqli_connect($servername,$username , $password,$databasename );
17
18      // Check connection
19      if($conn === false){
20          die("ERROR: Could not connect. "
21              . mysqli_connect_error());
22      }
23
24      // Taking all 5 values from the form data(input)
25      $firstname =  $_REQUEST['firstname'];
26      $lastname = $_REQUEST['lastname'];
27      $gender = $_REQUEST['gender'];
28      $email = $_REQUEST['email'];
29      $number =$_REQUEST['number'];
30      $address = $_REQUEST['address'];
31      $postalCode =$_REQUEST['receipt'];
32
33
34
35      // Performing insert query execution
36      // here our table name is college
37      $sql = "INSERT INTO volanteer  VALUES ('$firstname','$lastname','$gender','$email','$number','$address','$receipt')";
38
```

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After Implementation.

Cover page:

Go to website:

handsforsmile.herokuapp.com/about.html

Vision

Let us give a loving hand to see and win the world to the flower buds that are trying to bloom.

Mission

HFS's mission is to vitalize flowers that have languished in the face of challenges and contributing to the best of their ability to improve their standard of living and education and endow a society with the younger generation full of humanity.

Who Are We

We are a charitable organization dedicated towards child care. Our mission is to vitalize flowers that have languished in the face of challenges and contributing to the best of their ability to improve their standard of living.

As a community-based children's welfare organization, we, Hands for smile believe that we have achieved success in offering a helping hand for kids in need and cherishing their smiles. Currently, over 200 volunteers from different parts of Sri Lanka have joined HFS with their kind hearts and helping hands. Further, we anticipate to proceed with our mission to vitalize flowers that have languished in the face of challenges and contributing to the best of their ability to improve their standard of living.

About Us   Team   Projects   volunteer

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handsforsmile.herokuapp.com/project.html

HOME   ABOUT   PROJECTS   STAFF   VOLUNTEER

Projects

A Glance at Our First Year

Awarna Warna (January, 2021)

Awarna Warna was our first community project as an organization. The main objective of this project was to renovate G/B.R.Dissanayake Special School and to donate sanitary items for the use of disabled students. About 200 students with special needs attend to B.R. Dissanayake Special School and, the requirement to upgrade it's learning environment and facilities was brought to our attention. Therefore, during Awarna Warna project, deteriorated walls were renovated and painted, desks and chairs were painted, walls were decorated with wallarts and, sanitary items for disabled students were donated.

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Manusath Mehewara (January, 2021)

Hands for Smile as a community organization planned a programme to donate essential food items to families in need. Specially, given the consequences of the the ongoing economic crisis due to the Covid-19 pandemic, it was noticed that significant fraction of the population was dealing with the difficulty to afford essential food supply. As a measure to support families dealing with financial difficulties during the pandemic, Mansuath Mehewara project was

Shatha Sankha (March, 2021)

Shatha Sankha is an unique project launched by Hands for Smile with the intention of providing learning oppurtunities to visually impaired kids in Sri Lanka. This project was conducted in collaboration with the Public Library Colombo and the Ceylon School for Deaf and Blind, Ratmalana. During the project, over 150 audio books were produced. These audio books included Sinhala, English and, Tamil childrenâ€™s stories, songs, poems as well as dramas. Over 120 volunteers including well-known voice actors contributed towards the success of the project. Recorded audio books were published in August, 2021 and are being donated to schools.

Parana Pitu Suwandayi (November 2021)

Rangahalath Api was another unique Childrenâ€™s Day programme organized by Hands for Smile team. The objective of this project was to provide a creative entertainment oppurtunity with an educational value. Rangahalath Api was organized in collaboration with the Department of Government Information, Sri Lanka and the Public Library Colombo. It was a vitual Childrenâ€™s Day programme composed stage dramas performed by Hands For Smile Performing Arts Club. This project was able deliver entertainment and company to children lacking oppurtunities for social interaction while educating and enhancing their knowledge in stage drama. Over 1000 kids participated in the virtual programme from all around Sri Lanka.

Leave a comment

Enter name

Enter name

your comment

POST COMMENT

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handsforsmile.herokuapp.com/staff.html

Staff

Rangahalath Api was another unique Children's Day programme organized by Hands for Smile team.

Bimasha Chamali

President/Founder

Savishka Vidyani

Co-President

Thamodhi Piusha

Secretary

Sasindu Ashan

Vice-Seretary

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HOME   ABOUT   PROJECTS   STAFF   VOLUNTEER   DONATION

Volunteer

Join with us to make a joyfull world

registration fee may apply

REGISTRATION FORM

First Name

Last Name

Activate Windows
Go to Settings to activate Windows.

Donation form:

Registration form:

registration fee may apply

REGISTRATION FORM

First Name

Last Name

Gender

Email Address

Phone Number

Address

🔒 handsforsmile.herokuapp.com/volanteer.html

Registration Fee
Recipt

Register

Contact Us

Telephone:📞

+94715859110

Email us:✉

liyanagebimasha142@gmail.com

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ECONOMIC FACTORS

Non-profit organizations operating in the environmental protection and conservation sector face challenging fundraising issue in collecting from individual donors the money needed to accomplish their goals. There are some factors allow these organization to attract more donations. Like, devoting a high percentage of donations to programs, Promoting the organization's image through fundraising activities, having a large amount of assets that ensures a sustainable financial structure, and providing online information that demonstrates how the organization has dealt with its mission.

In our organization volunteers are recruited as members on behalf of HFS and we charge a small annual membership fee. We have also arranged for members to pay their membership fee through our website. Our clients are a non-profit organization and if they make any money, only the membership fee from those members. Therefore, the revenue model is the membership fee of the members and the main income is the membership fee but donations and funds can be received for their project. We suppose to increase our revenue like that. And also, it is a SaaS service.

Our website is designed to sell to charity organizations such as HFS. Here is an example of a website designed for HFS. We made this choice in anticipation of the charity organizations. Charity services provide a wide range of solution, such as financial assistance and donations, through the website. Awareness of charity organizations through our website also helps in getting help.

For example, with the launch of the website for charity organizations, HFS provides a wide range of services and assistance to children. Because of this we are motivated to do this functional / design. Therefore, those who are interested in donating to charity organizations and those who are willing to donate to charity organizations can find out through the website.

If you give young people the opportunity to join HFS as well, we offer a number of tools, such as easy membership registration through our website. If someone wants to know about thus organization through our website people can get our contact information and they can ask for our help. So, we think these are the economic factors according to our project.

CONCLUSION

We as a web developing team, we hope to launch this website as the first step of charity service management system developing project. We use this Hands for smile organization as an example. Like this we can provide services for whole charity community. Hands for smile nonprofit organization is just a beginning. With this concept we hope our intension is already succeeded.

But when making this concept to a real thing was not an easy one. We had to research on every charity website. In present charity websites are something rare. Most probably the problem is they are non-profitable and no one whiling to develop a service for them. But we get that risk and made a way to earn a revenue.

As the conclusion of this project report, we plan to get help from charity organizations and provide a solution to donors through the website. We build a cloud SaaS service for hands for smile non-profit organization which keeping database of organization and tracking children's data who wants help from HFS organization. Hands for smile is a non-profit organization which gives contribute for improve standard of living and education of children.

We are supposed provide several services such as,

- Giving opportunities for the young people to join with our organization.

- With that we give them opportunity to register as a member of the organization through our website easily.

- Then we provide all the details and information on our ongoing projects and database on our previous project. With the help of that users can go through it and can get a better idea on our organization.

- And also, we give the request option for the people organizations, institutions who want our service as a nonprofit organization Through our website people can get our contact information and they can ask for our help and if they have any questions, we provide them the chat option through website itself.

REFERENCES

❖ https://www.tutorialspoint.com/php/

❖ https://www.youtube.com/watch?v=xz7boNbj1tA

❖ https://devcenter.heroku.com/articles/getting-started-with-php

❖ https://www.google.com/search?q=hosting+using+github+compete+tut&sxsrf=A OaemvI_EWaMQKzObL18kNc8sB83sjyXew%3A1642176227877&ei=457hYfvW NJ-eseMP-emr-AU&ved=0ahUKEwi71OGVz7H1AhUfT2wGHfn0CI8Q4dUDCA4&uact=5&oq=ho sting+using+github+compete+tut&gs_lcp=Cgdnd3Mtd2l6EAMyBQghEKABMgUII RCgAToHCAAQRxCwAzoNCC4QxwEQ0QMQsAMQQzoHCAAQsAMQQzoECC MQJzoFCAAQgAQ6CggAEIAEEIcCEBQ6BwgjEOoCECc6CgguEMcBENEDEE M6BAgAEEM6BQgAELEDOgsILhCABBCxAxCDAToLCAAQgAQQsQMQgwE6C AgAELEDEIMBOggIABCABBCxAzoICC4QgAQQsQM6BQguEIAEOgsILhCABB DHARDRAzoGCAAQFhAeOggIIRAWEB0QHjoHCCEQChCgAUoFCDwSATFKB AhBGABKBAhGGABQ0whY4poBYLCiAWgCcAB4A4ABfIgB-x2SAQUyNy4xNJgBAKABAbABCsgBCsABAQ&sclient=gws-wiz

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