CHAPTER 1– INTRODUCTION

There are many steps involved in the process of solving a client's problem. We can consider this step as the First step of them. We have already studied the company's current situation and determined the areas that need to be developed. Also we have done a feasibility study regarding to this project.

1.1 Terms of Reference

How do we refer the client's problem? Or else identifying the problem correctly is done here.

- Understanding the problem
  - Identify processes, draw ER and DFD's.
- Checking whether the existing technology can solve the client's requirement.
- Cost benefit analysis
  - Checking whether the proposed software can bring economic benefits.
- Checking whether the user will accept the software or not.
- Feasibility study
  - Checks if there are any legal hassle.
- Collecting data
  - Interview.
  - Studying their reports and workflow.

1.2 Objectives of Study

Identifying a real life business problem and provide a computer solution using concepts learned under different modules in the Higher Diploma in Computer Based Information Systems is the main objective of the study. System Development project has led us to combine all the modules that we learned under a year, to a one module. This project has sharpened the knowledge of Database Management Systems, Programming Languages and Business Information Systems & System Analysis modules. And also this showed us how to utilize obtained knowledge and how to implement software.

1.3 Methodology

Methodology means the methods which we use to complete our project. Mainly there are two methods. Object oriented method and structured method are them. We suppose to use a mixed method.

1.4 Duration of the Project

ID	Task	Duration (days)	Start	End
1	Preparing problem statement - Discussion with the company and note down the important facts.	03	02/01/2015	04/01/2015
2	Understanding general requirements. - Team discussion about the problem.	03	07/01/2015	09/01/2015
3	Meeting with supervisor.	01	20/01/2015	-
4	ER & DFD designing	05	26/01/2015	30/01/2015
5	File designing (database deigning)	03	03/02/2015	05/02/2015
6	Screen designing	04	05/02/2015	08/02/2015
7	Writing pseudo codes	05	08/02/2015	11/02/2015
8	Implementation	10	12/02/2015	21/02/2015
9	Writing project report	03	22/02/2015	25/02/2015
10	Final preparing & proofreading	02	25/02/2015	26/02/2015

Table 1.1 – Duration of the project

CHAPTER 2 – EXISTING SYSTEM

2.1 Outline of the Company Background

"SAVE US" is a specialized non profitable organization that is concerned with orphaned children. It was established on 7 December 2014, with Overall management and administration of the organization takes place at its headquarters in Galle.

Its current priorities include saving children from communicable diseases, in particular malaria and tuberculosis. Organization's primary aims of organization are health, development, and aging; nutrition, food security, receive an adequate education and healthy eating; occupational health; substance abuse.

CHAPTER THREE – PROPOSED SYSTEM

3.1 Benefits of the proposed system

- Data redundancy is reduced to a considerable amount. So it saves space and time which was wasted on updating the same thing at many places.
- Gives the user a friendly environment.
- Security is enhanced. Not everyone can log in to the system.
- The system provides reliable transactions and the transactions are done much faster.

3.2 ER Diagram

Figure 3. 1 – ER diagram of the proposed system

3.3 Data Flow Diagrams

3.3.1 Context Diagram

Figure 3.2 – Context diagram of the proposed system

3.3.2 Level 0 Diagram

Figure 3.3 – Level 0 diagram of the proposed system

3.3.3 Level 1 Diagram for Process 1.0

Figure 3.4 – Level 1 diagram for process 1.0 of the proposed system

3.3.4 Level 1 Diagram for Process 4.0

Figure 3.5 – Level 1 diagram for process 4.0 of the proposed system

3.4 File Design

File Number	File Name
F01	Children_Master File
F02	Projects_Master File
F03	Donations_Master File
F04	Donations_Detail File
F05	User_Master File
F06	News_Master File
F07	Message_Master File

Table 3.1 – List of files in the system

File Number   :   F01

File Name   :   Children_Master File

Primary Key   :   ChildId

Field Name	Data Type	Field Size	Description
ChildId	Integer	11	Primary key, used to identify the Child.
ChildName	Varchar	30	Name of child.
ChildAge	Integer	3	Age of child.
ChildDesc	Varchar	300	Description of child.
ChildPhoto	LongBlob		Photo of Child.

Table 3.2 – Children _Master file

File Number   :   F02

File Name   :   Projects_Master File

Primary Key   :   ProjectId

Field Name	Data Type	Field Size	Description
ProjectId	Integer	11	Primary key, used to identify the Project
ProjectName	Varchar	30	Name of project.
Purpose	Varchar	300	Purpose of the project.
ProjectDesc	Varchar	300	Description of project.
ProjectPhoto	LongBlob		Photo of project.

Table 3.3 – Projects_Master file

File Number   :   F03

File Name   :   Donations_Master File

Primary Key   :   DonationId

Field Name	Data Type	Field Size	Description
DonationId	Integer	11	Primary key, used to identify the Donation.
Date	DateTime		Date of donation.
Amount	Money		Amount of donation.
UserName	Varchar	30	Foreign Key, used to identify the user who did donation.

Table 3.4 – Donations_Master file

File Number   :   F04

File Name   :   Donations_Detail File

Primary Key   :   DonationId

Field Name	Data Type	Field Size	Description
DonationId	Integer	11	Primary key, used to identify the Donation details.
ProjectId	Integer	11	
ChildId	Integer	11	

Table 3.5 – Donations_Detail file

File Number   :   F05

File Name   :   User_Master File

Primary Key   :   EmailAddress

Field Name	Data Type	Field Size	Description
EmailAddress	Varchar	100	Primary key, used to identify the User.
Password	Varchar	16	Password of user.
RegDate	DateTime		Registration date of user.
SecurityQuestion	Varchar	30	Security question for recovery purposes.
Answer	Varchar	10	Answer of the security question.
FirstName	Varchar	16	First name of user.
LastName	Varchar	16	Last name of user.
Country	Varchar	16	Country of user.
PhoneNumber	Varchar	16	Contact number of user.
CardType	Varchar	8	Credit card type.
CardNo	Varchar	20	Credit card number.

Table 3.6 – User_Master file

File Number   : F06

File Name   : News_Master File

Primary Key   : DonationId

Field Name	Data Type	Field Size	Description
NewsId	Integer	11	Primary key, used to identify the News.
NewsHeading	Varchar	30	Headline of news.
NewsDetails	Varchar	300	Details about news.
AddedBy	Varchar	30	Foreign Key, used to identify the user who added news.

Table 3.7 – News_Master file

File Number   :   F07

File Name   :   Message_Master File

Primary Key   :   MID

Field Name	Data Type	Field Size	Description
MID	Integer	11	Primary key, used to identify the message.
MessageDate	DateTime	30	Date of message which was sent.
Email	Varchar	300	Foreign Key, User who sent the message.
Name	Varchar	30	Name of the user who sent message.
Phone	Varchar		Contact number.
Message	Varchar		Message context.

Table 3.8 – Message_Master file

3.5 Screen Design

Screen Number	Screen Name
SCR01	Home Page
SCR 02	Meet Children
SCR 03	Help Projects
SCR 04	Contact Us
SCR 05	Donations
SCR 06	Registration
SCR 07	User Login
SCR 08	Recover Password
SCR 09	User Profile
SCR 10	Edit User Name
SCR 11	Password Change
SCR 12	Change Phone Number and Country
SCR 13	Edit Credit Card Details
SCR 14	Admin Panel
SCR 15	Member View and Remove
SCR 16	User Message Report
SCR 17	Add, View and Remove Admin
SCR 18	Donation Report
SCR 19	Update News
SCR 20	Add New Project
SCR 21	Edit and Remove Project
SCR 22	Add New Child
SCR 23	Edit and Remove Child Details

Table 3.9 – List of screens in the system

Screen Number : SCR 01

Screen Name : Home Page

Description : Home page of the site. Have links to other pages and links to register or login to the site.

Design
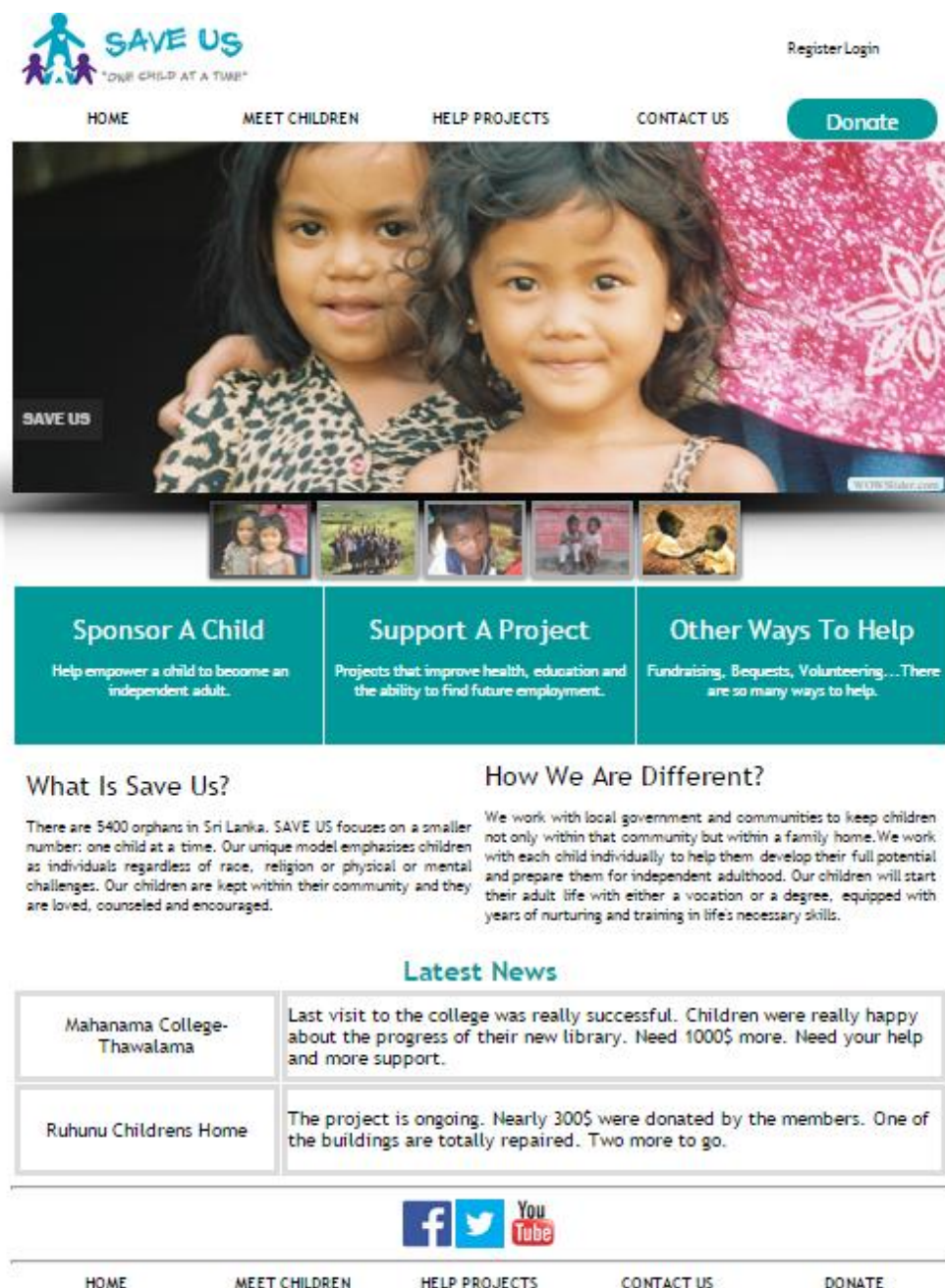
Figure 3.6 – Home Page

Screen Number   : SCR 02

Screen Name   : Meet Children

Description   : Description of Children are displayed on this screen and users can add donations to children.

Design
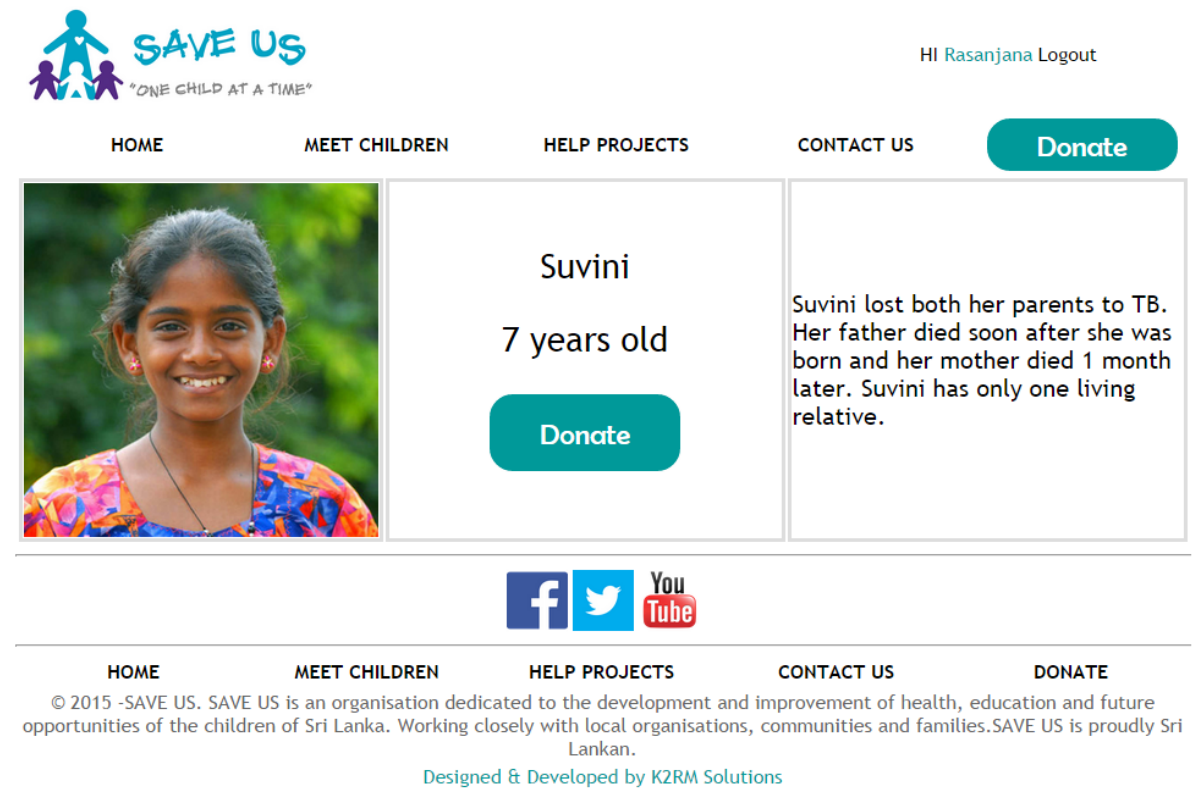
Figure 3.7 – Meet Children

Screen Number   : SCR 03

Screen Name   : Help Projects

Description   : Description of Projects are displayed on this screen and users can add donations to projects.

Design
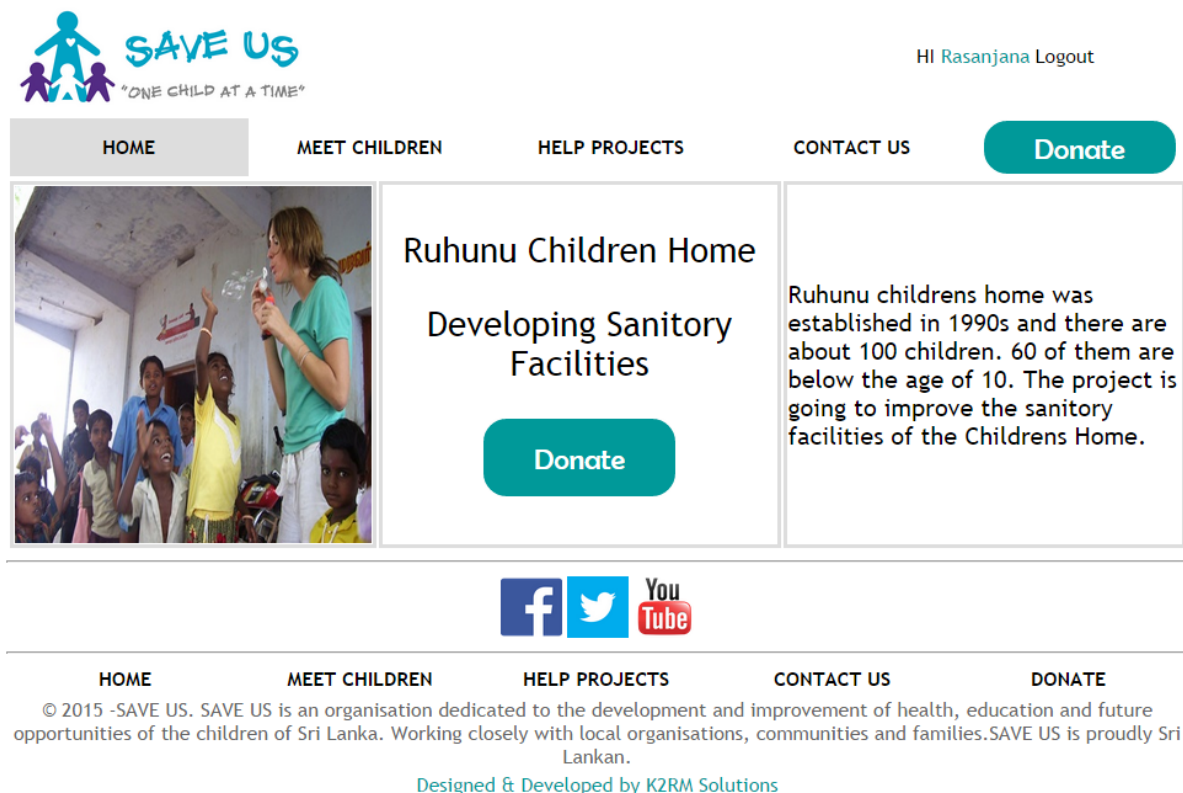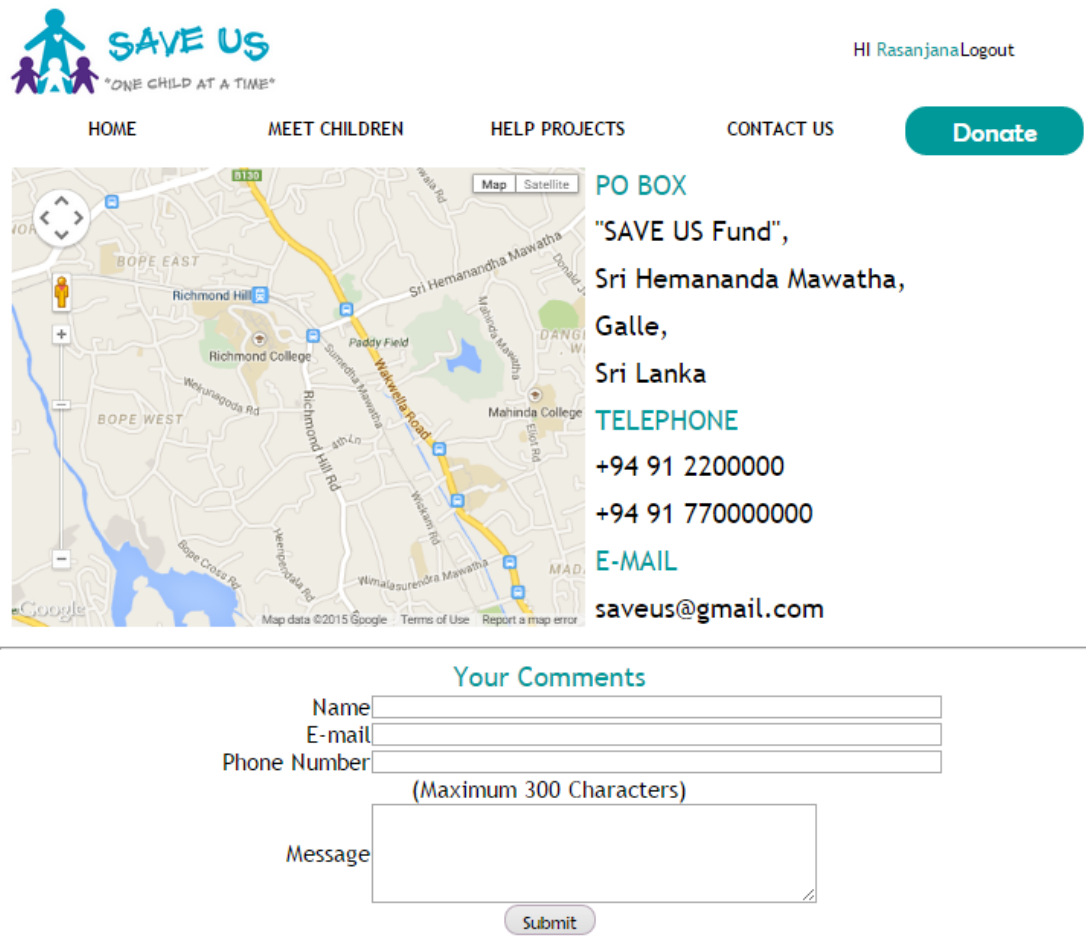
Figure 3.8 – Help Projects

Screen Number   : SCR 04

Screen Name   : Contact Us

Description   : This page allows users to send messages about site and get details of the site.

Design

Figure 3.9 – Contact Us

Screen Number   : SCR 05

Screen Name   : Donations

Description   : This page allows users to add donations.

Design

Figure 3.10 – Donations

Screen Number   : SCR 06

Screen Name   : Registration

Description   : New users can register using this screen.

Design

Figure 3.11 – Registration

Screen Number   : SCR 07

Screen Name   : User Login

Description   : Login screen for users

Design

Figure 3.12 – User Login

Screen Number   : SCR 08

Screen Name   : Recover Password

Description   : If user forget his/her password, can recover using this page.

Design

Figure 3.13 – Recover Password

Screen Number   : SCR 09

Screen Name   : User Profile

Description   : User can view his/her profile in this page. Donation summary is
displayed and can edit the profile

Design
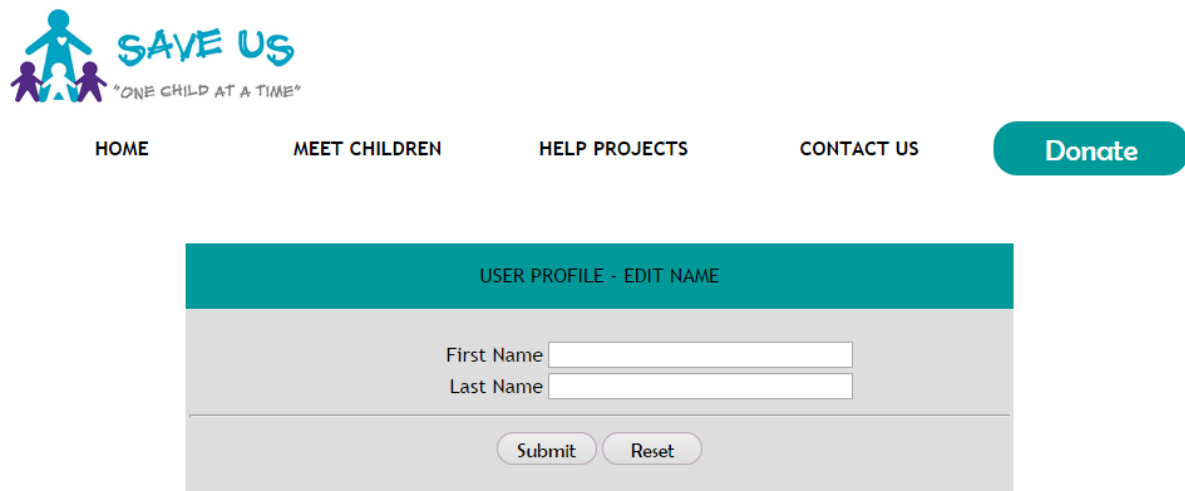
Figure 3.14 – User Profile

Screen Number   : SCR 10

Screen Name   : Edit User Name

Description   : User can edit his/her user name from this page.

Design
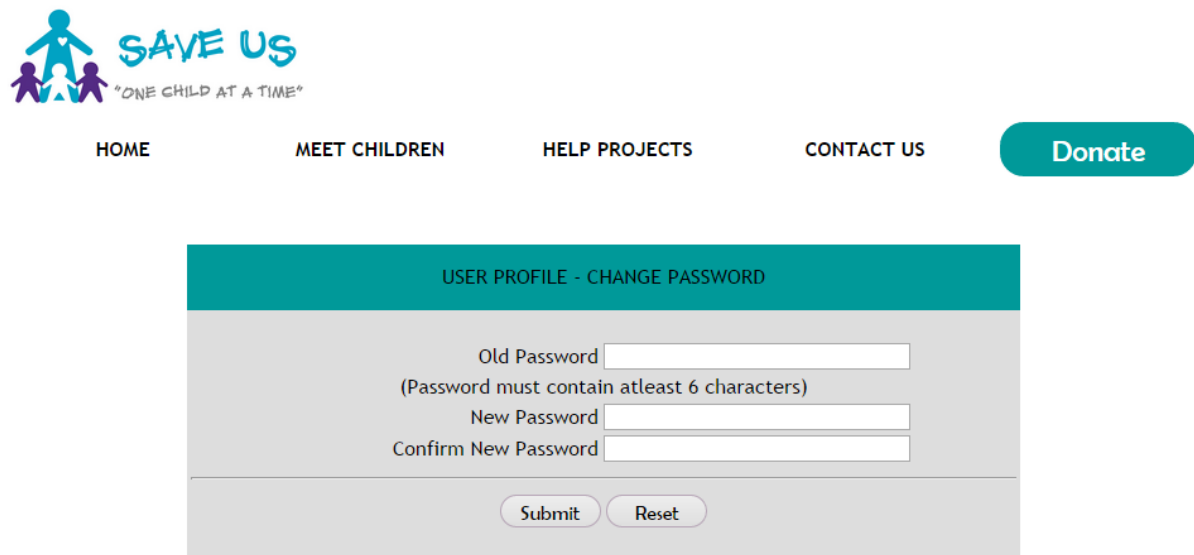
Figure 3.15 – Edit User Name

Screen Number   : SCR 11

Screen Name   : Password Change

Description   : User can edit his/her password from this page.

Design

Figure 3.16 – Password Change

Screen Number   : SCR 12

Screen Name   : Change Phone Number and Country

Description   : User can edit his/her contact number and country from this page.

Design
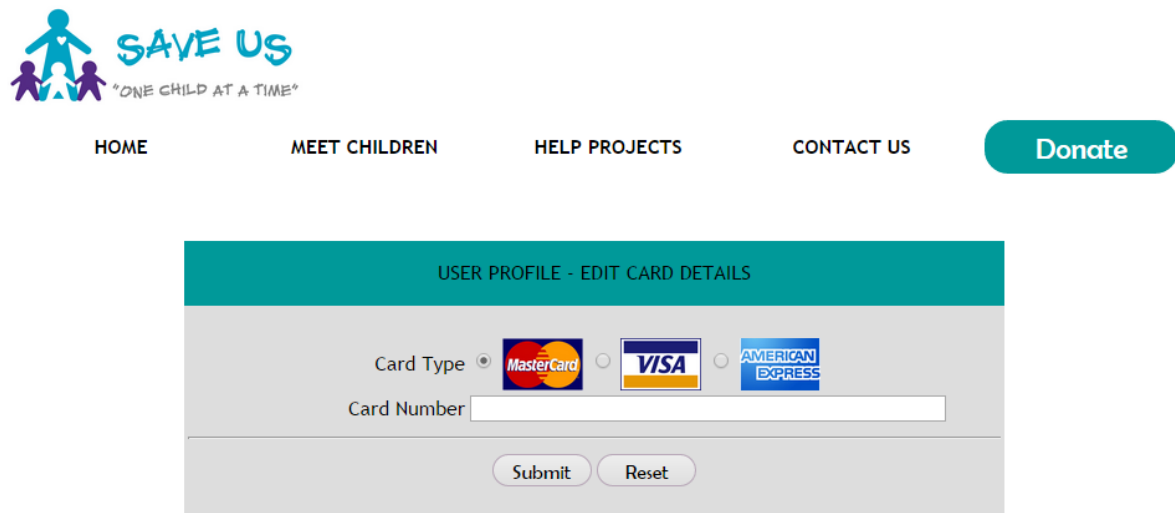
Figure 3.17 – Change Phone Number and Country

Screen Number   : SCR 13

Screen Name   : Edit Credit Card Details

Description   : User can edit his/her credit card details from this page.

Design

Figure 3.18 – Edit Credit Card Details

Screen Number   : SCR 14

Screen Name   : Admin Panel

Description   : Administrator home page.

Design

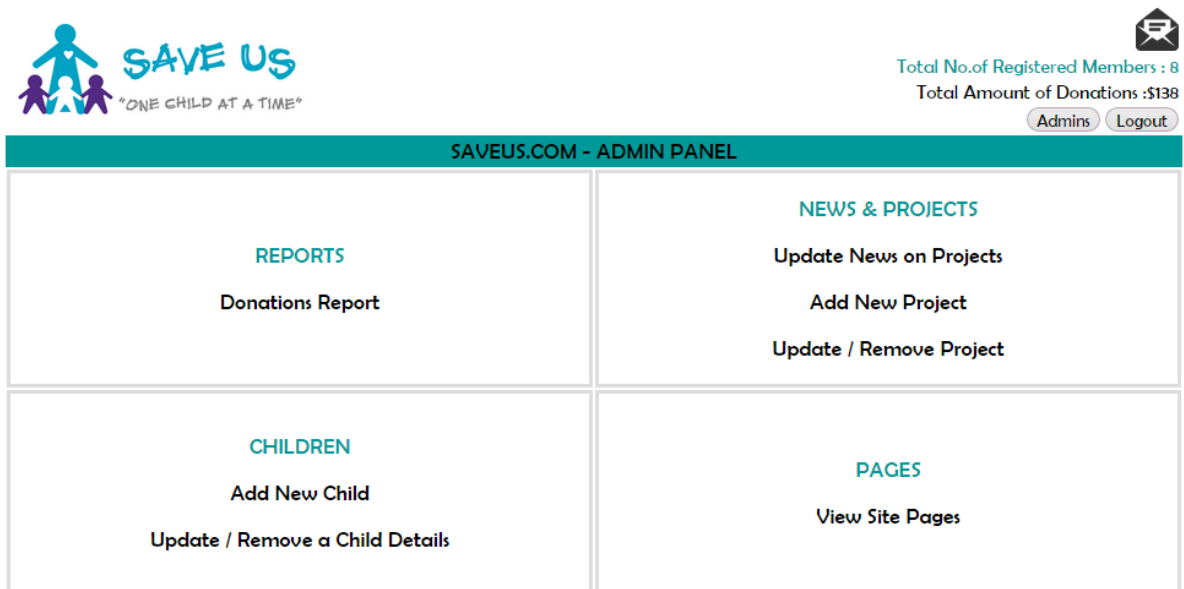

Figure 3.19 – Admin Panel

Screen Number   : SCR 15

Screen Name   : Member View and Remove

Description   : Administrator can view and remove members.

Design

Figure 3.20 – Member View and Remove

Screen Number   : SCR 16

Screen Name   : User Message Report

Description   : Administrator can view user message.

Design

Figure 3.21 – User Message Report

Screen Number   : SCR 17

Screen Name   : Add, View and Remove Admin

Description   : Administrator can add, view and remove administrators.

Design

Figure 3.22 – Add, View and Remove Admin

Screen Number   : SCR 18

Screen Name   : Donation Report

Description   : Administrator can view all donations.

Design

DonationID	User Email	Type	Amount
	GO TO ADMIN HOME		
	DONATIONS REPORT - 2015-02-01		
33	manayakkara1992@gmail.com	Child	1
34	manayakkara1992@gmail.com	Project	10
35	manayakkara1992@gmail.com	Fund	5
36	dilshan@gmail.com	Project	5
37	dilshan@gmail.com	Project	10
			Total :$31

Figure 3.23 – Donation Report

Screen Number   : SCR 19

Screen Name   : Update News

Description   : Administrator can update news on site which is displayed on home
                         page.

Design
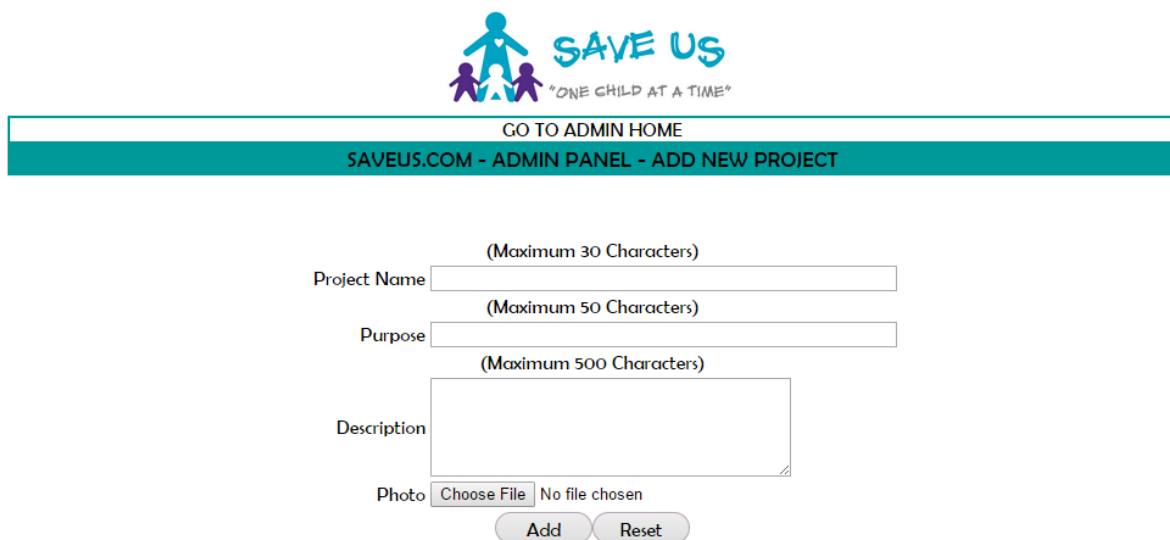
Figure 3.24 – Update News

Screen Number   : SCR 20

Screen Name   : Add New Project

Description   : Administrator can add new projects to site.

Design

Figure 3.25 – Add New Project

Screen Number   : SCR 21

Screen Name   : Edit and Remove Project

Description   : Administrator can edit and remove projects from this page.

Design

Figure 3.26 – Edit and Remove Project

Screen Number   : SCR 22

Screen Name   : Add New Child

Description   : Administrator can add new children to site.

Design

Figure 3.27 – Add New Child

Screen Number   : SCR 23

Screen Name   : Edit and Remove Project

Description   : Administrator can edit and remove children from this page.

Design

Figure 3.28 – Edit and Remove Child Details

3.6 Pseudo Code for SCR 23

Start

Load SCR23

Open Children_Master File F01

Order by ChildId

Move to beginning of F01

While !EO records on F01

      Add new record to SCR23.Children Details grid

      SCR23.Datagrid.ChildId   = F01.ChildId

      SCR23.Datagrid.Photo   = F01.ChildPhoto

      SCR23.Datagrid.Name   = F01.ChildName

      SCR23.Datagrid.Age   = F01.ChildAge

      SCR23.Datagrid.Description = F01.ChildDesc

End While

If click button SCR23.Remove

      If SCR23.ChildId is empty or not a number

            Display Message "Child Id must be a number"

      Else

            Delete record from F01 Where

                  F01.ChildId   =SCR23.ChildId

      End If

End If

If click button SCR23.Edit

    If any field on SCR23 is empty

        Display Message "All fields are mandatory"

    Else

        Read F01 where F01.ChildId =SCR23.ChildId

        Set

        F01.ChildName   = SCR23.Name

        F01.ChildAge   = SCR23.Age

        F01.ChildDesc   = SCR23.Description

        F01.ChildPhoto   = SCR23.Photo

    End If

End If

If click button SCR23.Reset

    Clear all fields on SCR23

End If

Close F01

End

3.7 Code for SCR 23

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml"><!-- InstanceBegin
template="/Templates/tmpAdmin.dwt.php" codeOutsideHTMLIsLocked="false" -->

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<!-- InstanceBeginEditable name="doctitle" -->

<title>::|SAVEUS - UPDATE CHILDREN|::</title>

<!--IMPORT STYLESHEETS -->


<link href="../css/admin.css" type="text/css" rel="stylesheet"/>

<link href="../css/buttons.css" type="text/css" rel="stylesheet"/>


<!--IMPORT JAVASCRIPTS -->


<script src="../js/adminUpdateChild.js" type="text/javascript"
language="javascript"></script>

<!-- InstanceEndEditable -->

<!-- InstanceBeginEditable name="head" -->

<!-- InstanceEndEditable -->

</head>
```

```
<body>

<?php

session_start();

/*CHECK WHETHER THE USER IS ALREADY LOGGED IN AND SESSION
VARIBLES ARE SET*/

if (!isset($_SESSION['userFName'])){

header( 'Location: ../php/userloginform.php' ) ;

}

?>

<table align="center">

<tr>

<td><img src="../images/Logo.png" width="250px" height="90px"/></td></tr>

</table>

<table class="tblLinksHome" align="center" >

<tr><td bgcolor="#FFFFFF"><a href="admin.php">GO TO ADMIN HOME
        </a></td></tr>

</table>

<!-- InstanceBeginEditable name="EditRegion5" -->

<table class="tblHead" align="center">

        <tr><td >SAVEUS.COM - UPDATE CHILDREN DETAILS</td></tr>

</table>

<table class="tblHead" align="center">

        <tr><td class="reportHeading" align="right" >No.of Registered Children =
```

```php
<?php

/*IMPORTING DATABASE CONNECTION FILE*/


include("../php/dbconfig.php");


    $tbl_name="tblchildren";

    $sql="SELECT COUNT(ChildId) AS amount_sum FROM
    $tbl_name";

    $result = mysql_query($sql);


    $row=mysql_fetch_assoc($result);

    $sum =$row['amount_sum'];

    echo $sum;

        ?>
    </td></tr>

</table>

<!-- InstanceEndEditable -->

<!-- InstanceBeginEditable name="EditRegion4" -->
```

<!-- DELETE CHILDREN FORM -->

```html
<form id="DeleteChild" name="formDeleteChild" enctype="multipart/form-data"
method="post" action="../php/removeChild.php" target="_self" onsubmit="return
validateForm2()">

   <table align="center" class="tblGeneral">

   <tr><td width="342"></td><td width="606" >REMOVE</td></tr>

   <tr><td width="340" align="right">Child ID</td><td width="608">

      <input type="text" id="DCId" name="txtDCId" size="50"/>

      <input type="submit" class="adminBtn" name="btnRemove" id="Remove"
value="Remove"/>

   </td></tr>

   <tr><td colspan="2"><hr /></td></tr>

</table>

</form>
```

<!-- EDIT CHILDREN FORM -->

```html
<form id="EditChild" name="formEditChild" enctype="multipart/form-data" method="post"
action="../php/editChild.php" target="_self" onsubmit="return validateForm1()">

<table align="center" class="tblGeneral">

   <tr><td></td><td width="470" >EDIT</td></tr></td></tr>

   <tr><td width="340" align="right">Child ID</td><td width="608"><input type="text"
id="CId" name="txtCId" size="50"/></td></tr>
```

```
<tr><td width="340" align="right">Name</td><td width="608"><input type="text"
id="Name" name="txtName" size="50"/></td></tr>

<tr><td align="right">Age</td><td><input type="text" id="Age" name="txtAge"
size="50"/></td></tr>

<tr><td colspan="2" align="center">(Maximum 300 Characters)</td></tr>

<tr><td align="right">Description</td><td><textarea id="Desc" name="txtDesc"
rows="5" cols="39"></textarea></td></tr>

<tr><td colspan="2" align="center">(Less than 1MB)</td></tr>

<tr><td align="right">Photo</td><td><input type="file" id="Photo"
name="imgPhoto"/></td></tr>

<tr><td colspan="2" align="center">

  <input type="submit" class="adminBtn" name="btnEdit" id="Edit" value="Edit"/>

  <input type="reset" class="adminBtn" id="Reset" value="Reset"/>

</td></tr>

</table>

</form>

<p> </p>

<table class="tblHead" align="center">

 <tr><td >Children Details - SAVEUS.COM</td></tr>

</table>

<table class="tblHead" align="center">
```

```
<!-- SHOW CURRENT CHILDREN DETAILS -->

<?php

/*IMPORTING DATABASE CONNECTION FILE*/

include("../php/dbconfig.php");

$tbl_name="tblchildren";

$sql="SELECT * FROM $tbl_name";

$result = mysql_query($sql);


echo "

<table class=reportDetail align=center>

<tr>

        <td>Child ID</td>

        <td>Photo</td>

        <td>Name</td>

        <td>Age</td>

        <td>Description</td>

</tr>

<tr>

        <td colspan=5><hr></td>

</tr>";
```

```php
while($row = mysql_fetch_array($result)){

        echo "<tr>";

        echo "<td class=NewsData>" . $row['ChildId'] . "</td>";

        echo "<td class=NewsData><img src=data:image/jpeg;base64," .
base64_encode($row['ChildPhoto']) . " width=100 height=100>" . "</td>";

        echo "<td class=NewsHead>" . $row['ChildName'] . "</td>";

        echo "<td class=NewsData>" . $row['ChildAge'] . "</td>";

        echo "<td class=NewsData align=left>" . $row['ChildDesc'] . "</td>";

        echo "</tr>";

}

echo "</table>";

?>

<!-- InstanceEndEditable -->

</body>

<!-- InstanceEnd --></html>
```

CHAPTER 4 – COST BENEFIT ANALYSIS

4.1 Hardware and Software requirements

Item	Quantity	Price
Go Daddy Server	1	15,000
Software implementing	-	50,000
Training staff	-	FREE
Total Cost	-	65,000 LKR

CHAPTER 5 – CONCLUSION

Every company has different operation flows and managing processes. After hearing and understand the current situation and objectives from clients, we evaluate and analyze the management software and the network. With the available competition in this current business world, we believe that our software solution may help our clients a lot. High performance, Cost saving business operations using new and improved system processes are two of the major advantages that can be obtained from our software solution.

Not even that, throughout the whole process of implementing this project, we gained an important knowledge than learning from books.