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Anil Kumar Singh

## **Abstract**

This is an interim report on the topic of 100's Group website. 100's Group website is a platform which consists of Admin, Members and users. Admin has the full control on the system. Users have access to see the information and can be member of the organization after the approval of the Admin. Members will have access to see the information.

The purpose of this report is to provide a detailed overview of my project. This report includes project formulation, introduction with its aims and objectives, background, literature view, initial work along with its full planning, work progress. Project formulation is the systematic development of a project idea for arriving at an investment decision. It has the built-in mechanism of ringing the danger bell at the earliest possible stage of resource utilization. Also Project formulation is a process involving the joint efforts of a team of experts. Introduction, aims and objectives are provides general idea about the project i.e. what the project is and for. Background is to provide brief summary of the project subject area, also describe its importance and motivation behind doing this project. This report also includes the information of the work completed and to be completed. It also includes Gantt chart of original and revised status.

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## **Section-1: Introduction**

### **1.1. Introduction to subject matter**

#### **1.1.1. History and Terminologies related to project**

Social services are a range of public services provided by the government, private, profit and non-profit organizations. These public services aim to create more effective organizations, build stronger communities, and also promote equality and opportunity. Social services include the benefits and facilities like education, food subsidies, health care, police, fire service, job training and subsidized housing, adoption, community management, policy research, and lobbying. Similarly this organization also provides clothing and some part of education services to the society.

The Internet was first introduced into Nepal in 1993 in a venture of the Royal Nepal Academy of Science and Technology (RONAST) and a private company, Mercantile Office Systems (MOS).

#### **1.1.2. Features of project**

The features of the project are listed as follows:-

- Provides location service using google map.
- Provides SMS service
- Enables membership for social service
- Provides service to do donation
- Easy donation methods

### 1.1.3. Aims and Objectives

**Aims:** Provide a simple, clean and easy platform for helping poor people by the process of donation.

**Objectives:**

To fill the gap between donors and the members of the organization, we are going to develop a website so that everyone who really wants to help but due to lack of time they cannot help, can easily access the website of this group and can easily get to donate stuffs like clothes, books, copies etc. Later on one can easily use the website and help people. They can access website and after filling the form they can donate it. This project will be very much helpful for the donors. They can donate from any places all over Nepal. As this organization have numbers of members throughout the country.



**1.1.4. Problem domain**

According to the report of ADB (Asian Development Bank) of 2010AD nearly 25.2% people lies under the poverty line. It is 2020 now although there is not much difference in the situation of poverty. There is numbers of people who can't even fulfill their basic need. In regard of this many social service organizations are here to help those peoples. Although there are numbers of social service organizations for the poor and needy people, they are able to serve people in a limited area. They have appear physically to help anyone. Although people are very nice and always ahead for helping people, the main problem is to collect donations. There is a big challenge for the social service organization to collect large amount of donations and manpower. Another big issue is publicity of organization.

As the project is related to social service organization, problem is to collect donations. The main service of this is to provide clothes, books, copies, bags and etc. All this stuffs are collected in the organization manually. People come to the stalls and leave it on the stalls. So by this medium not sufficient amount of donations were collected. In this world of internet and computers this should also be digitalized. Donating things are not so easy in this process. This physical medium is limited and bound by boundary for a specific area. Numbers of people will join this program but due to lack of contact they are restricted from doing such a great work for society. In this busy world there is a big issue of time so one who wants to donate can't reach to the stalls and does this. This is also one of the main issue of less donation collection.

**1.1.5. Project as a solution**

While presenting the project as a solution, the project will enhance donating process by providing a best and easy platform where everyone can donate easily. The project will be the solution for the maximum problems of current scenario. It will be a web application of the current system of the organization. Through this web platform everyone will be able to access the website in which users will have access for doing donation. There will be no need of going to the stalls of 100's group or no need to appear physically. Donors are those persons who do jobs, who have sufficient money, who have extra used items like clothes, used books and copies having numbers of blank pages so that they can do donations. Due to lack of time and with busy schedule they can't do donations so this website will be bridge between the helping souls and this organization. As this project will provide a feature to donate via website everyone will have very much easy platform. This will be accessible from all over the world and users from Nepal can donate. Via internet it will be known to everybody, number of active members will increase. This project will provide a best feature of map so that one can locate the donor which will be very much easy for the members to collect donation.

### 1.1.6. Motivational features

While I used to go outside I always saw poor people out of clothes, foods. They are out of education due to poverty. I was very much affected after seeing these situations. This very bad conditions of poor people give me motivation of social service. Due to this factor I choose the project as this project will be helping poor people. Through this website I will also be serving the humanity with my small effort. I think this digitalization of such type of social service organization will bring great difference in our society.

## 1.2. Introduction to structure

### Abstract

An abstract is a one-paragraph summary of a research project. Abstracts precede papers in research journals and appear in programs of scholarly conferences. In journals, the abstract allows readers to quickly grasp the purpose and major ideas of a paper and lets other researchers know whether reading the entire paper or not. (Professor Diana Strazdes, 2019)

### Introduction

This section introduces about the subject matter of the project followed by its history, terminology and developments in that specific field. Further, it also includes the problem domain and how this project solves that problem along with the aims and objectives of this project.

### Background/Context

A Project's Background is a formal document containing a common description of what is expected to be done within the project, what prerequisites for the project are, and how to produce the expected amount of work (MCCONNELL, 2011). This section discusses about the background and context related to project. It also discusses about the technology used for the development of this project and In addition, it also describes the development related to this project followed by the key difference between them.

### Development

This section shows the considerations that were made before for the development of the project and analysis of the opted mechanisms. This also illustrates the development of the project till now along with the screen shots of codes.

### Progress

This section shows the achievements that were made during the development of the project till now. It further shows the progress of the project based on the Gantt chart.

### Future work

This section includes the tasks that are required to do in future after the completion of the project.

### Conclusion

This section describes overall conclusion of the report.

## Section-2: Background

### 2.1. Research work (Technology)

Visual studio, also known as Microsoft Visual Studio and VS is an integrated development environment for Microsoft Windows. It is a tool for writing computer programs, websites, web apps and web services. It includes a code editor, debugger, GUI design tool and database schema designer and also supports most major revision control systems. It is available in both community edition as well as a paid commercial version ([www.computerhope.com](http://www.computerhope.com), 2019). The first version of VS (Visual Studio) was released in 1997, named as Visual Studio 97 having version number 5.0. The latest version of Visual Studio is 15.0 which was released on March 7, 2017. It is also termed as Visual Studio 2017. The supported *.Net Framework Versions* in latest Visual Studio is 3.5 to 4.7. Java was supported in old versions of Visual Studio but in the latest version doesn't provide any support for Java language (<https://www.geeksforgeeks.org/introduction-to-visual-studio>, 2019). The three versions of visual studio are

- Community
- Professional
- Enterprise

Some of the programming languages supported by this Visual Studio are listed below:-

- C
- C++
- C#

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- Visual Basic.NET
- Python
- M
- HTML/XHTML/CSS
- JavaScript

The ASP.NET MVC 5 Framework is the latest update to Microsoft's popular ASP.NET web platform. It provides an extensible, high-quality programming model that allows you to build dynamic, data-driven websites, focusing on a cleaner architecture and test-driven development. ASP.NET MVC 5 contains a number of improvements over previous versions, including some new features, improved user experiences; native support for JavaScript libraries to build multi-platform CSS and HTML5 enabled sites and better tooling support (Sabnis, 2019).

Some of the important features of this website are:-

- Scaffolding
- ASP.NET Identity
- One ASP.NET
- Bootstrap
- Attribute Routing
- Filter Overrides

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Some of the features are listed below:-

- Separation of application tasks (Input, Business Logic, UI Logic). It reduces complexity that makes it ideal for large scale applications where multiple teams are working.
- It supports for Test Driven Development (TDD) approach. In ASP.NET Web Forms, testing support is dependent on Web Server but ASP.NET MVC makes it independent of Web Server, database or any other classes.
- It is an extensible and pluggable framework. The components of the ASP.NET MVC framework are designed so that they can be easily replaced or customized.
- It provides extensive support for URL Routing that helps to make friendly URLs (means friendly for human as well as Search Engines).
- Support for existing ASP.NET features like membership and roles, authentication and authorization, provider model and caching etc. (www.Csharpstar.com, 2015).

SQL Server is a relational database management system (RDBMS) developed by Microsoft. It is primarily designed and developed to compete with MySQL and Oracle database. SQL Server supports ANSI SQL, which is the standard SQL (Structured Query Language) language. However, SQL Server comes with its own implementation of the SQL language, T-SQL (Transact-SQL). SQL Server Management Studio (SSMS) is the main interface tool for SQL Server, and it supports

both 32-bit and 64-bit environments (www.guru99.com, 2019). Some of the advantages of MS SQL server are as follows:-

- For installation of different versions on one machine
- For maintenance of development, production and test environments separately of development, production and test environments separately
- For cost reduction
- For maintaining a standby server
- For separating security privileges
- For reducing temporary database problems
- For maintenance of development, production and test environments separately (www.guru99.com, 2019)

The .Net framework is a software development platform developed by Microsoft. The framework was meant to create applications, which would run on the Windows Platform. The first version of the .Net framework was released in the year 2002. The version was called .Net framework 1.0. The .Net framework has come a long way since then, and the current version is 4.7.1. The .Net framework can be used to create both - Form-based and Web-based applications. Web services can also be developed using the .Net framework. (www.guru99.com, 2018)



## **2.2. Literature review (Books, journals, article)**

The digitalization of society is changing our behaviour, our institutions and the helping professions, among them social work. Adapting to this new environment is one of the main challenges facing social work as both a scientific discipline and a helping profession. Internet, digital devices, and information and communication technologies (ICTs) have modified many of our traditional daily practices, from leisure habits to business dealings as well as public administrations and public services worldwide. Since the 1990s, these new conditions and their possible developments and global influences have been described and forecasted in the literature (Andriole, 2005; Castells, 1996, 1997, 1998; Zysman & Newman, 2006). In our digital societies, e-Social work is rapidly becoming a new area of specialization, while digitalization affects all our activities transversally. In both higher education and professional practice, the digital environment has become a new frontier that may render the profession of social work obsolete (the Kodak effect) or, on the contrary, create new dynamics that put us at the forefront of technological change, thus strengthening social work as a scientific discipline and as a profession. )group, 2018(

In a review of fifty-five school-based intervention studies identified by computer searches of the Education Resources Information Center (an abstract database commonly known as ERIC) and PsycINFO (an abstract database maintained by the American Psychological Association), 27 percent of published articles between 1975 and 2002 discussed treatment fidelity ( Mooney, Epstein, Reid, & Nelson, 2003). Although some studies that assessed fidelity also implemented strategies to enhance treatment fidelity, there appears to be sparse research on the use of treatment fidelity findings to improve treatment fidelity (Tucker and Blythe, 2008). These finding underscore the need for more attention to treatment fidelity in educational research as a necessary component for establishing evidence-based practices in education )R, et al., 2008(. Anyone living a full, rich

life experiences ups and downs, stresses, disappointments, sorrows, and setbacks. Today, however, millions of people who are really no more than "worried well" are being diagnosed as having a mental disorder and receiving unnecessary treatment. )Frances, 2014(

## **2.3. Comparison and Analysis of similar system**

### **I. khalisisi**

Khalisisi has now been serving as a platform where individuals/organizations can connect to the garbage collectors, or people who collect khalisisi (empty bottles).KC addresses the garbage collectros as Khalisisi friends (KSFs). The idea behind Khalisisi was to give our KSFs a bigger platform and more business opportunities; not to replace them,” Aayushi clarified. At present, she has already teamed up with about 50 KSFs that have been assigned separate clusters of Kathmandu, and have started doing better business with Aayushi’s help. )Bajracharya, 2017(

Pros of Khalisisi:

1. End user interface is clean and easy to navigate through.
2. A really nice feature is available for scheduling a pick up request through the calender.
3. Pages of website is very much easy and short.

Cons of Khalisisi:

1. Location adding feature could be added to have easy location rather than phone calls.
2. The administration portal could be designed to be a little simpler to use.

### II. Dogs on deployment

Military members nation-wide confront a multitude of problems during their careers, the last thing they need to worry about is their pet's care during their service commitments. Dogs on Deployment is a 501. National non-profit which provides an online network for service members to search for volunteers who are willing to board their pets during their owner's service commitments. Dogs on Deployment promotes responsible, life-long pet ownership by military pet owners by advocating for military pet owner rights, providing educational resources and granting financial assistance for military pet owners during times of emergency. Join Dogs on Deployment's mission in changing the lives of our military members and their pets.

Pros:

1. Dogs on Deployment promotes responsible, life-long pet ownership.
2. Join Dogs on Deployment's mission in changing the lives of our military members and their pets.
3. Military need to worry about is their pet's care during their service commitments.

Cons:

1. This could not provide military pet parental care.
2. Home page is full of stuffs which makes it very conjusted.

### III. Design Industries Foundations Fighting AIDS (DIFFA)

DIFFA “raises awareness and grants funds to organizations that provide HIV/AIDS awareness, prevention, and direct care.” The website’s graphic design is clean and cohesive. Form follows function. All pages feature their striking black, white and red logo. This color palette extends

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throughout the site. The site uses lots of white space, which gives it an uncluttered feel. The main design element on the homepage is a revolving series of photo banners with headlines demonstrating impact. The large red Donate button on every page leads you to a straightforward donation form. The navigation features smooth floating menus that drop down when you mouse over a section. The Get Involved section has many ways to participate in the organization including different kinds of volunteering. The Events section calls attention to the social nature of this organization.

### Pros:

1. The website's graphic design is clean and cohesive.
2. The large red Donate button on every page leads you to a straightforward donation form.
3. The navigation features smooth floating menus that drop down when you mouse over a section.

### Cons:

1. This has a slow access due to this user may feel bother.
2. UI design is not simple and clean in home page.

## **2.4. Outcomes of Research**

From the above research, I have found that MVC.net, C-sharp will be the suitable programming language for my project. .net will be the best platform for making web application. From the above multiple literature reviews, I found that digitalization of such type of social service organization through the medium of web application we can actually contribute to the society and nations too. The social service organization have to face many such small like problems. One can't collect enough donation so that they can help numerous human beings. The similar online system helps to manage waste products in our country for the first time in Nepal.

I also finds that it would be encouraging activities to do social service and donation for the younger generations who actually spent most of the time in internet.

## Section-3: Development to Date

### 3.1. Methodology / Approach

The following are the three methodologies that I have considered for my project:

1. Waterfall
2. Iterative
3. Agile

The **waterfall model** is a sequential software development process, which is the progress are flowing smoothly downwards like a waterfall through the stages of Requirements, Design, Implementation, Verification and Maintenance. The first waterfall model is published on article in 1970 by Winston W. Royce )[www.ukessays.com](http://www.ukessays.com), 2016(. In “The Waterfall” approach, the whole process of software development is divided into separate phases. The outcome of one phase acts as the input for the next phase sequentially. This means that any phase in the development process begins only if the previous phase is complete. The waterfall model is a sequential design process in which progress is seen as flowing steadily downwards (like a waterfall) through the phases of Conception, Initiation, Analysis, Design, Construction, Testing, Production/Implementation, and Maintenance )[www.toolsqa.com](http://www.toolsqa.com), 2016(.

The **iterative** model is a particular implementation of a software development life cycle (SDLC) that focuses on an initial, simplified implementation, which then progressively gains more complexity and a broader feature set until the final system is complete. When discussing

the iterative model, the concept of incremental development will also often be used liberally and interchangeably, which describes the incremental alterations made during the design and implementation of each new iteration )powell-Morse, 2016(. Iterative model is repetition incarnate. A new version of the software is created with each phase, or iteration. Rinse and repeat until the complete system is ready. The advantage of this model is that it produces a working version of the project early in the process, and makes it less expensive to implement changes. The disadvantage is that the repetitive processes can consume resources quickly.

**Agile** methodology is a practice that promotes continuous iteration of development and testing throughout the software development lifecycle of the project. Both development and testing activities are concurrent unlike the Waterfall model )guru99.com, 2019(. Agile produces ongoing release cycles, each featuring small, incremental changes from the previous release. At each iteration, the product is tested. Work is typically broken into 2-4-week segments. (www.innovativeartitecture.com, 2018)

Among these three methodologies, I do prefer Agile Methodology because of the following reasons:

1. Since the requirement of my project may have change in any the future update, Agile has the ability to change dynamically to the customer's wants and needs which Waterfall and Iterative doesn't.

2. In Agile, by producing frequent builds and conducting testing and reviews during each iteration, quality is improved by finding and fixing defects quickly and identifying expectation mismatches early.
3. In Agile, I can focus on high quality development, testing and collaboration by breaking down the project into manageable units
4. During the project, end-user involvement is encouraged, providing visibility and transparency. There is continuous planning and feedback throughout the process, delivering value to the business from the beginning of the project.

### **3.2. Description of Tools and Technologies**

For the project following are the tools and technologies used:-

- I. Visual studio
- II. MySQL server
- III. Bootstrap
- IV. .net
- V. HTML/CSS
- VI. JavaScript



### 3.3. Use Case Diagram and Wireframe Design

#### 3.3.1. Use Case Diagram

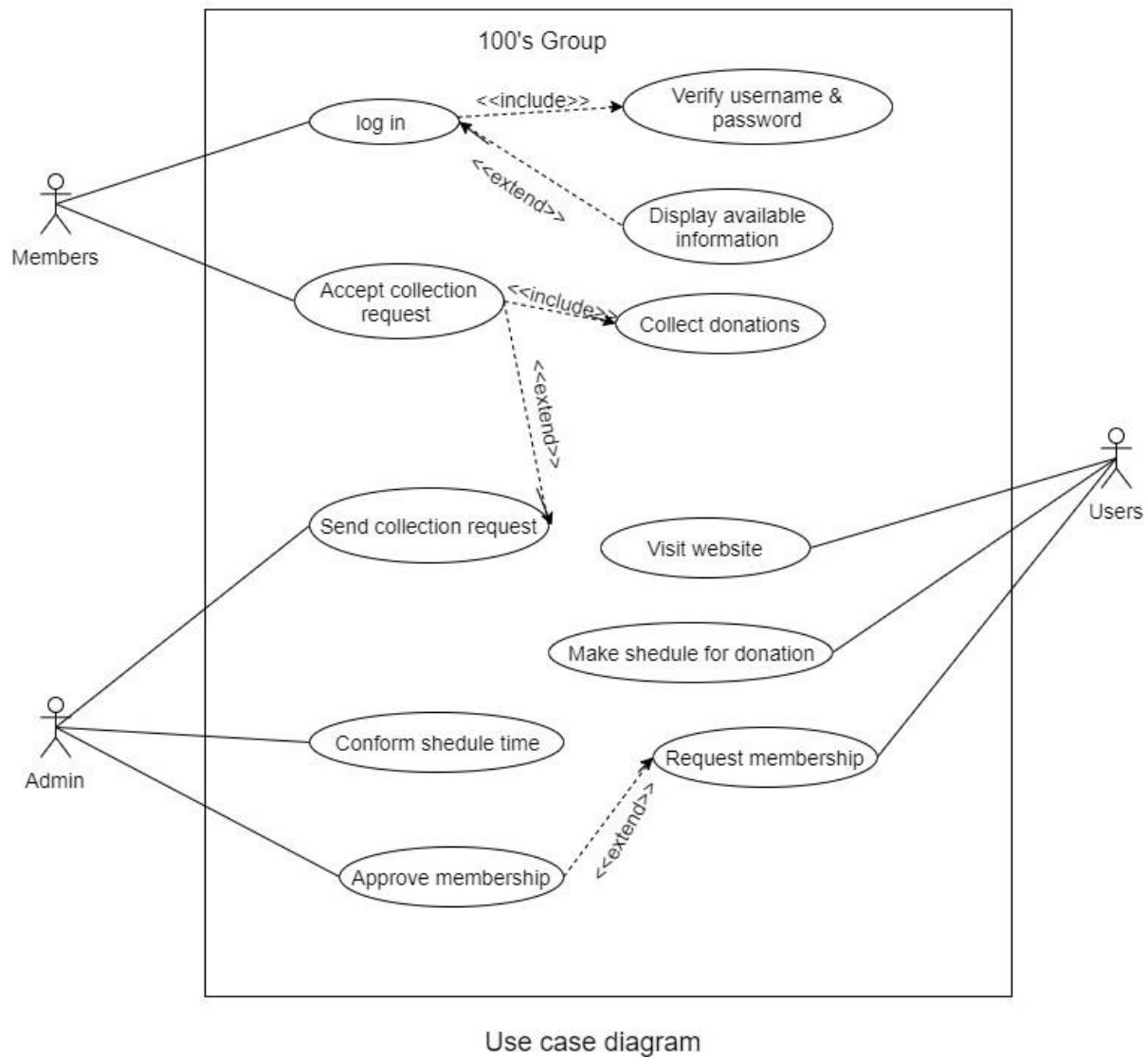


Figure 1: Use case diagram

### 3.3.2. Wireframe

#### 1. Home page

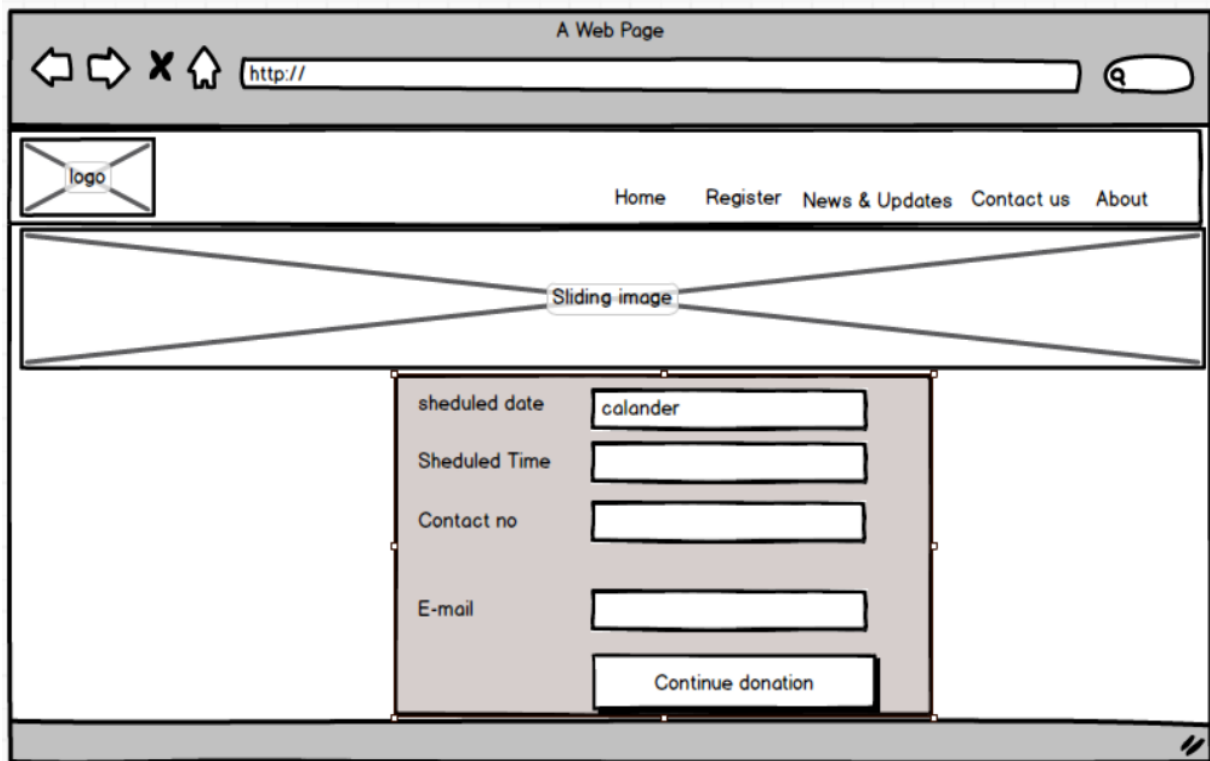


Figure 2: Screenshot of wireframe of Home page

## 2. News & Update page

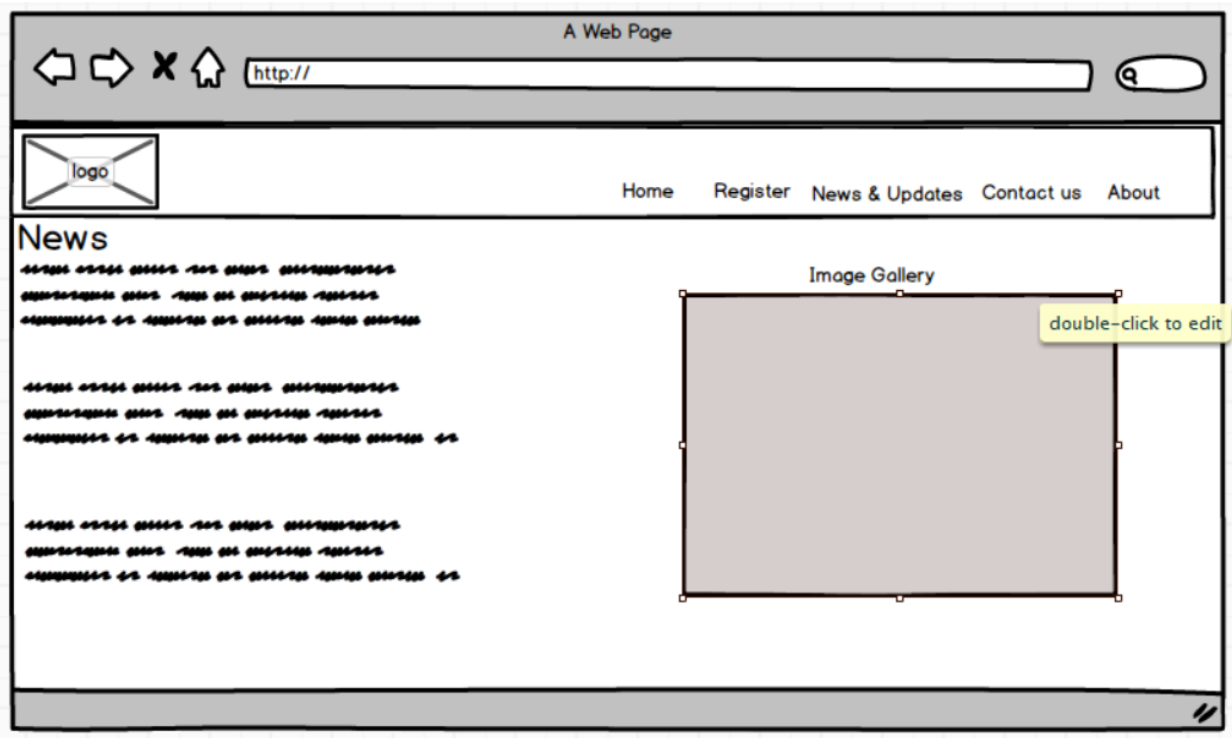
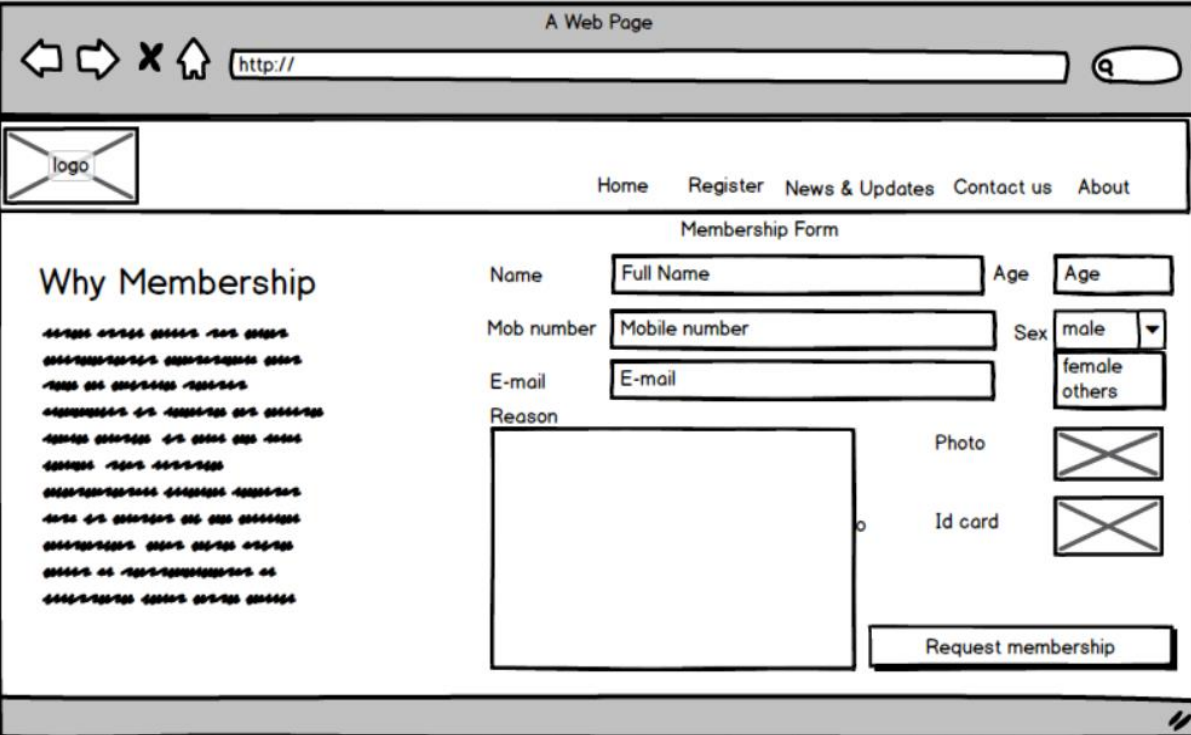


Figure 3: Screenshot of wireframe of News and Update page

### 3. Registration page



The image shows a wireframe of a web browser window titled "A Web Page". The browser's address bar contains "http://". The page layout includes a header with a logo placeholder and a navigation menu with links: Home, Register, News & Updates, Contact us, and About. The main content area is divided into two sections. On the left, under the heading "Why Membership", there is a list of ten bullet points, each represented by a small square icon. On the right, under the heading "Membership Form", there are several input fields: "Name" (with a sub-label "Full Name"), "Age" (with a sub-label "Age"), "Mob number" (with a sub-label "Mobile number"), and "E-mail" (with a sub-label "E-mail"). To the right of these fields are "Sex" (a dropdown menu with options "male", "female", and "others") and "Photo" (a placeholder box). Below the "E-mail" field is a "Reason" label and a large text area. To the right of the "Reason" text area is an "Id card" label and another placeholder box. At the bottom right of the form is a "Request membership" button.

Figure 4: Screenshot of wireframe of Registration page

#### 4. Contact Us page

The image shows a wireframe of a 'Contact Us' page as it might appear in a web browser. The browser window has a title bar 'A Web Page' and a toolbar with back, forward, stop, and home buttons, along with a search bar containing 'http://'. The page content includes a logo placeholder on the left and a navigation menu with links: 'Home', 'Register', 'News & Updates', 'Contact us', and 'About'. The main form area contains the following fields and labels:

- Name:** A text input field with the placeholder text 'Full Name'.
- Mobile number:** A text input field with the placeholder text 'Mobile number'.
- E-mail:** A text input field with the placeholder text 'E-mail'.
- Contact no:** A text input field with the placeholder text 'mob no'.
- Alternate number:** A text input field.
- Message:** A large text area for a message.
- Submit:** A button with the text 'Submit'.

The form fields are arranged vertically, with labels to the left of each input field. The 'Submit' button is centered below the 'Message' field.

Figure 5: Screenshot of wireframe of Contact page

## 5. About Us page

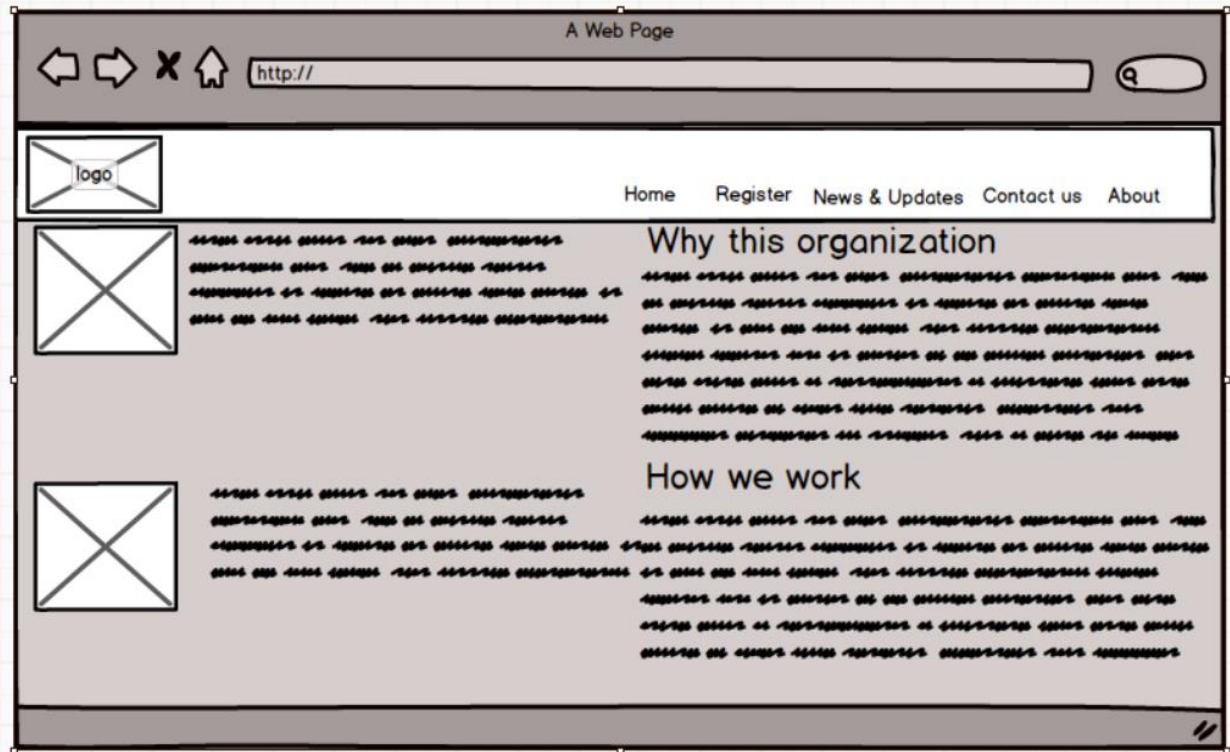


Figure 6: Screenshot of wireframe of About Us page

### 3.4. Development engagement

#### 3.4.1. Screenshot of source code and description

```

    }
}

private void btnupdate_Click(object sender, EventArgs e)
{
    Student obj = new Student();
    obj.Id = int.Parse(txtId.Text);
    string firstName = txtFirstName.Text;
    string lastName = txtLastName.Text;
    obj.Name = firstName + " " + lastName;
    obj.Address = txtAddress.Text;
    obj.Email = txtEmail.Text;
    obj.BirthDate = dpBirthDate.Value;
    obj.ContactNo = txtContactNo.Text;
    obj.Gender = cbGender.SelectedItem.ToString();
    obj.Edit(obj);
    BindGrid();
    clear();
    btnupdate.Visible = false;
    btnSubmit.Visible = true;
}

private void BindChart(List<Student> lst)
{
    if (lst != null)
    {
        var result = lst

```

Figure 7: Screenshot of source code 1

These are the source code of home page.

```

    {
        id = int.Parse(value);
        Student s = obj.List().Where(x => x.Id == id).FirstOrDefault();
        txtId.Text = s.Id.ToString();
        txtFirstName.Text = s.Name.Split(' ')[0];
        txtLastName.Text = s.Name.Split(' ')[1];
        txtAddress.Text = s.Address;
        txtEmail.Text = s.Email;
        dpBirthDate.Value = s.BirthDate;
        txtContactNo.Text = s.ContactNo;
        cbGender.SelectedItem = s.Gender;
        btnSubmit.Visible = false;
        btnupdate.Visible = true;
    }

    else if (e.ColumnIndex == 1)
    {
        string message = "Do you want to Delete this Record?";
        string title = "Delete Confirmation";
        MessageBoxButtons buttons = MessageBoxButtons.OKCancel;
        DialogResult result = MessageBox.Show(message, title, buttons);
        if (result == DialogResult.OK)
        {
            //get the value of the clicked row id column
            string value = dataGridViewStudents[2, e.RowIndex].Value.ToString();
            obj.Delete(int.Parse(value));
            BindGrid();
            MessageBox.Show("Record Successfully Deleted");
        }
    }
}

```

Figure 8: Screenshot of source code 2

```

40     default:
41       return <NavLink href="/api/logout"><Button color="danger">LOGOUT</Button></NavLink>
42     }
43   }
44
45   render() {
46     return (
47       <div>
48         <Navbar color="navbar navbar-dark bg-dark" expand="md">
49           <NavbarBrand href="/">Hamro Paathsala</NavbarBrand>
50           <NavbarToggler onClick={this.toggle} />
51           <Collapse isOpen={this.state.isOpen} navbar>
52             <Nav className="ml-auto" navbar>
53               { /* <NavItem>
54                  <NavLink href="/">Getting Started</NavLink>
55                </NavItem> */ }
56               <NavItem>
57                 {this.renderContent()}
58               </NavItem>
59             </Nav>
60           </Collapse>
61         </Navbar>
62       </div>
63     )
64   }
65 }
66
67 function mapStateToProps({ auth }) {
68   return { auth };
69 }
70
71 export default connect (mapStateToProps) (Header)
72

```

Figure 9: Screenshot of source code 3

The above files created the header component of the web application. The header components include a navigation bar with some links in it.



```

using Newtonsoft.Json;
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace CourseWork
{
    public partial class StudentForm : Form
    {
        public StudentForm()
        {
            InitializeComponent();
            BindGrid();

            btnUpdate.Visible = false;
        }

        private void btnSubmit_Click(object sender, EventArgs e)
        {
            Student obj = new Student();
            string firstName = txtFirstName.Text;
            string lastName = txtLastName.Text;
            obj.Name = firstName + " " + lastName;
            obj.Address = txtAddress.Text;
            obj.Email = txtEmail.Text;
            obj.SchoolName = txtSchoolName.Text;
        }
    }
}

```

Figure 10: Screenshot of source code 4

The above file creates the landing page of the web app. The page uses some of the components of bootstrap 4.

```

}
private void BindChart(List<Student> lst)
{
    if (lst != null)
    {
        var result = lst
            .GroupBy(l => l.Gender)
            .Select(cl => new
            {
                Gender = cl.First().Gender,
                Count = cl.Count().ToString()
            }).ToList();
        DataTable dt = Utility.ConvertToDataTable(result);
        chart1.DataSource = dt;
        chart1.Name = "Gender";
        chart1.Series["Series1"].XValueMembers = "Gender";
        chart1.Series["Series1"].YValueMembers = "Count";
        this.chart1.Titles.Remove(this.chart1.Titles.FirstOrDefault());
        this.chart1.Titles.Add("Weekly Enrollment Chart");
        chart1.Series["Series1"].IsValueShownAsLabel = true;
    }
}

private void btnCancel_Click(object sender, EventArgs e)
{
    Clear();
}

private void chart1_Click(object sender, EventArgs e)
{
}

```

Figure 11: Screenshot of source code 5

### 3.4.2. Screenshot of GUI and description

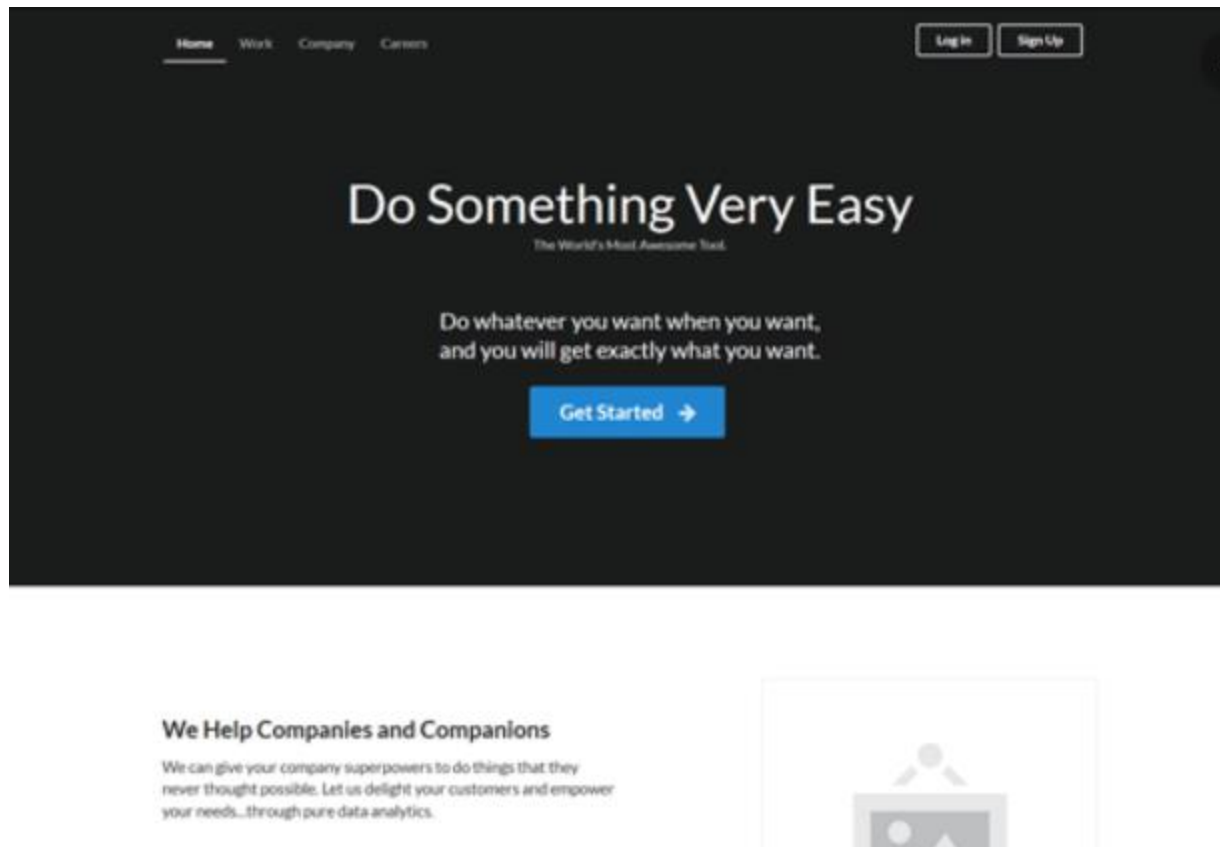


Figure 12: Screenshot of GUI

The GUI of the project will be like this. It will some how maintain the feature.

## Section-4: Analysis of Progress

### 4.1. Assessment made by student

S.N.	Tasks	Status
1	Selection of project and approval	Completed
2	Project specification document	Completed
3	Brief research on the technologies used in the project	Completed
4	Research on SDLC methodologies	Completed
5	Research and comparison among three similar technologies	Completed
6	Review on literature	Completed

Table 1: Table of Assessment made by student.

### Development

S.N.	Tasks	Status
7	Design of Home page	Completed
8	Connect with MySQL Server DB	Completed
9	Google map API	Completed
10	Store stalls information in database	Completed

Table 2: Table of Assessment made by student.(rest part)

## 4.2. Schedule Revision

S.N.	Tasks	End date Gantt chart	Actual Date	Remarks
1	Preparation of project plan and specification	10/25/2019	10/25/2019	On time
2	Research on programming language and its frame work	11/16/2019	11/16/2019	On time
3	Preparation of project proposal	11/19/2019	11/19/2019	On time
4	Development of web application	01/02/2020	01/02/2020	On time
5	Preparation and submission of Interim Report	01/03/2020	01/03/2020	On time

Table 3: Table of Revision of schedule

### 4.3. Original Gantt chart

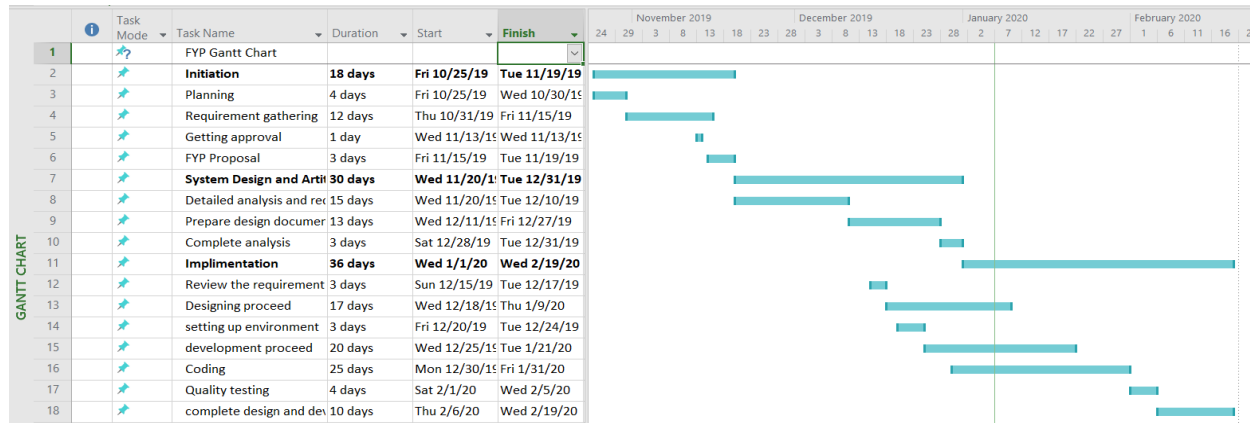


Figure 13: Original or initial Gantt chart

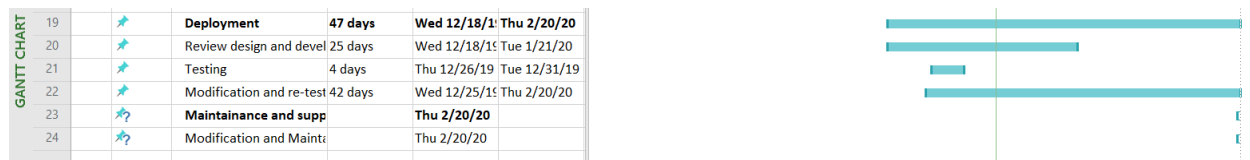


Figure 14: Rest part of original Gantt chart

## 4.4. Revised Gantt chart

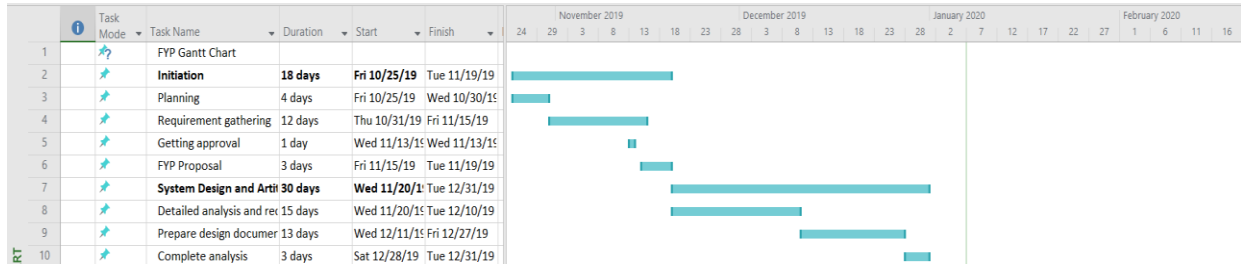


Figure 15: First part of Revised Gantt chart

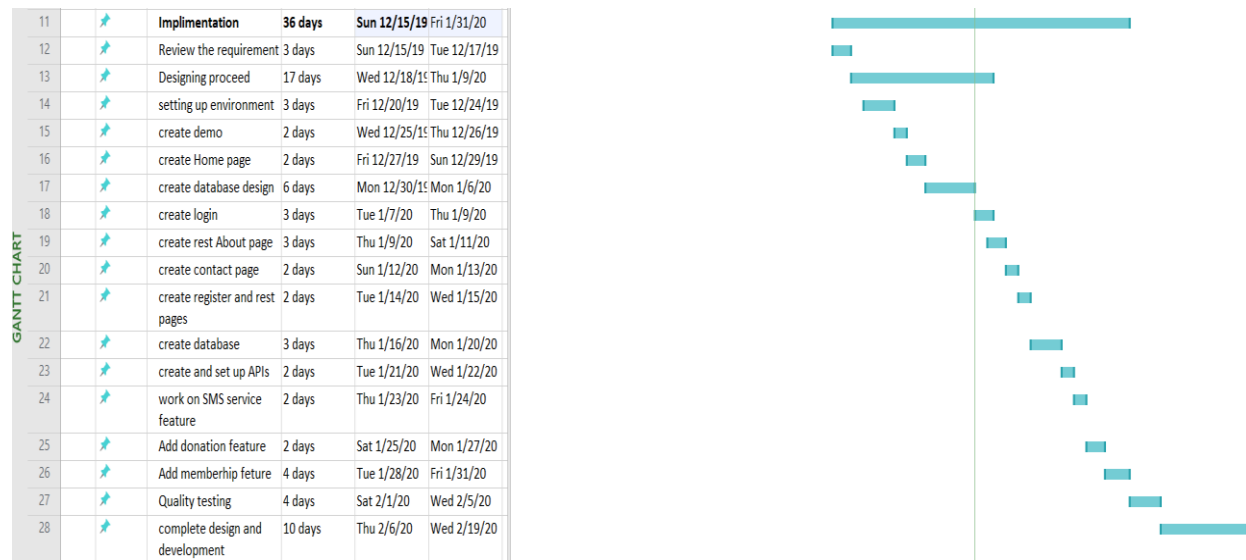


Figure 16: Second part of Revised Gantt chart



Figure 17: Last part of Revised Gantt chart

#### **4.5. Achievement till now**

While talking about the achievements till date, the following are the things that I have achieved so far:-

1. Selection of the Topic of project.
2. Research and selection of Programming languages, frameworks and technologies.
3. Submission of Final Year Project Proposal.
4. Learning database design of web Application.
5. Learning programming language and operations of Frameworks.
6. Creating Home page or landing page.

#### **4.6. Not Achieved till now**

The things that I could not achieve till date are listed below:-

1. Creation of Admin panel.
2. Creation of membership request forum.
3. Creation of member login feature.
4. Send and accept donation collection request feature to Admin and members.
5. Testing
6. Report writing section.

7. Creation of SMS sending function.
8. Documentation portion.

#### **4.7. Problem faced in past and present**

##### **Past**

These are some of the problems faced in the **past** which are listed as follows:-

1. Difficult to learn new programming language.
2. Difficult to operate new framework.
3. Difficult to connect with google map API.
4. Difficult to learn MVC.net.

##### **Present**

These are also some problems faced in the **currently** which are listed as follows:-

1. As we don't have data now so it is difficult to see stalls information.
2. As My SQL server is completely new for me so it is quite difficult to work with it for me.
3. Using bootstrap and C# are also quite difficult for me.



#### **4.8. Steps taken to overcome the problem**

I have taken the following measures in order to overcome the problems facing by me:-

1. I have read the official documentation of the frameworks which are provided frameworks companies.
2. I have also read the tutorials of programming languages too.
3. I have also started to learn mysql server database.

#### **4.9. Lists of tasks lagging behind**

These are the following tasks lagging behind:-

1. I should have designed the database of admin.
2. I should have implemented organization information to my web page.

#### **4.10. Research behind lagging of the tasks**

There are other modules coursework that I have to do. Due to deadline of other module coursework and internship I could not manage time so I am lagging behind in these tasks. But now I will surely give extra time on FYP and complete these tasks in coming days.

#### **4.11. Steps could have been taken for completing the project on time**

I have spent more time on choosing frameworks and programming languages for my project. I have also spent more time to learn about APIs, bootstrap etc. I could have use these time to create database design or web pages which could have saved my time membership request form and others things too.

#### **4.12. How to rescue the project and lag activities in order to complete the project on time.**

I will now completely focus on my project following the Gantt chart that I have revised which is also mentioned above. Rather than investing my time on making GUI's and others work, I will utilize the time on creating features of the web app and other features too. I will make a schedule on which every task will be listed with their dates to complete. I will be following the schedule and Gantt chart very seriously.

## **Section-5: Future work**

### **5.1. Future work**

Following are the tasks that I will be doing in future:-

1. Creating Admin page with the functionality of providing approval of membership request and access donation collection request.
2. Creating Membership request forum.
3. Create a database of the organization regarding stalls, member's information etc.
4. Create members information page for member's login/password.
5. Create all the web pages like news & update, contact, about.

## 5.2. Gantt chart of future task

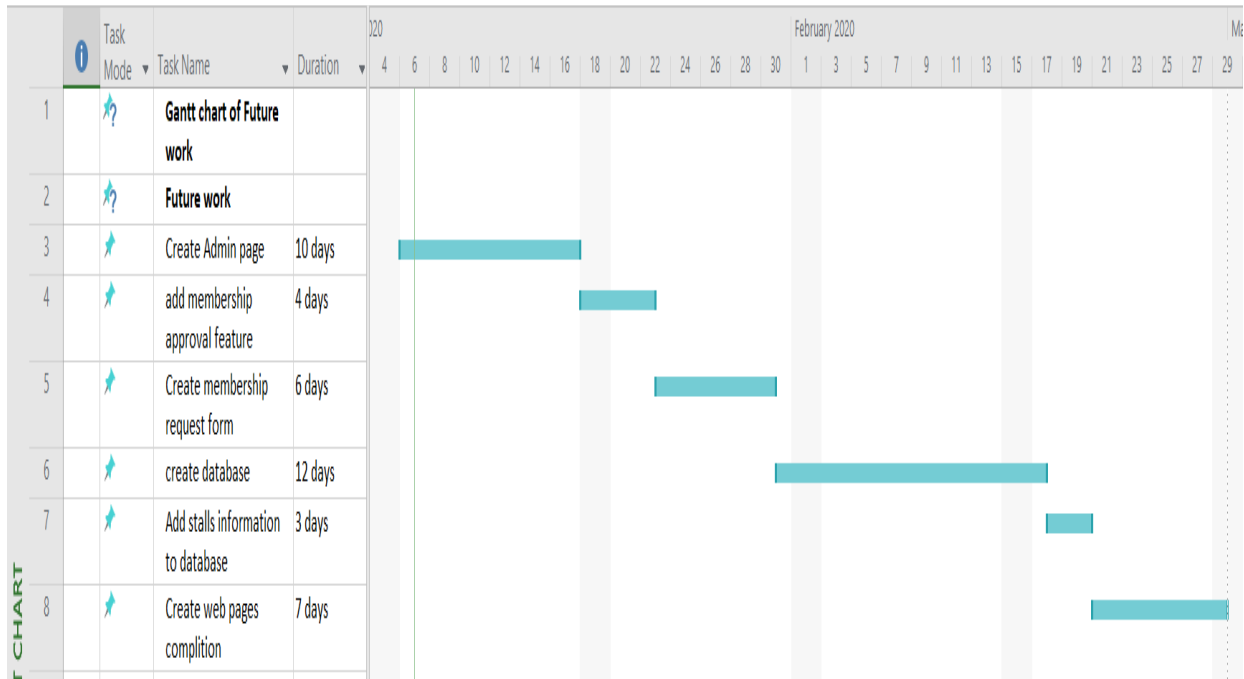


Figure 18: Gantt chart of future work

### **5.3. Analysis of Gantt chart**

There are many future tasks which I have to do in future for completing my task on time. First and foremost thing is to create admin page. I have assigned one week for this task. I will try to finish as fast as it will be possible. I will not be adding any extra things to my web page. I will try to make very neat and clean web pages so that no one will be confused and feel boring after visiting this site. Further task is to add the function of the admin which will allow admin to handle the members. Admin will be able to add members, block members and also handles the donation request of users and members. As per my plan this will take 15-20 days.

Another task is to create membership request form. This will allow users to proceed further process for membership. It will take five to six days.

Another task is to create a proper database of the database. This will allow to save all the donation done via website and also save information of the members and users or we can called donors. It will take 20-25 days.

Another task is to create all pages like contact page, News & updates pages and about page. These pages will provide sufficient information like news and update page will provide the information about the upcoming events and programs. Similarly about page will provide information about the organization. It will take two to three weeks. This is the overall analysis of the future task Gantt chart.

## 5.4. Conclusion

This 100's Group website has played vital role in providing easy way of donation work. This web platform will bring very much easy for everyone to help people who really need help, who actually need their help. It has become a platform to help people whenever one wish to do so. One can easily make a schedule when to donate and what to donate. This is not only easy for donors but also for members and social workers who are related to the organization. The project is quite difficult for me as I have used all the platforms which are new to me. I have learned much more new things, new ideas. Due to these small reasons I have invested much time on learning these things so I am lagging behind till date but when I finished learning process I will be going faster than before. I will strictly try to follow the future Gantt chart and I hope and believe that I can complete my all tasks on time. Also I will give full concentration to complete the project as we have mentioned or proposed before.

## Section-6: References and Bibliography

360Logica.com, 2019. *Agile Development –Advantages, Disadvantages and when to use it?*.

]Online[

Available at: <https://www.360logica.com/blog/agile-development-advantages-disadvantages-and->

when-to-use-it/

]Accessed 03 January 2020[.

Bajracharya, N., 2017. My city. *From bicycle to recycle: The Khalisisi men*, 30 June, pp. 4-7.

Frances, A., 2014. *Saving normal*. Reprint edition ed. Durham: William Morrow Paperbacks.

group, T. a. f., 2018. e-Social work and digital society: re-conceptualizing approaches, practices and technologies. *European Journal of Social Work*, 21)06(.

guru99.com, 2019. *Agile methodology and testing*. ]Online[  
Available at: <https://www.guru99.com/agile-scrum-extreme-testing.html>  
]Accessed 25 December 2019[.

<https://www.geeksforgeeks.org/introduction-to-visual-studio>, 2019.  
<https://www.geeksforgeeks.org/introduction-to-visual-studio>. ]Online[  
Available at: <https://www.geeksforgeeks.org/introduction-to-visual-studio>  
]Accessed 02 January 2020[.

MCCONNELL, E., 2011. *PROJECT IMPLEMENTATION GUIDE*. ]Online[  
Available at: <https://mymanagementguide.com/>  
]Accessed 02 January 2020[.

Muslihat, D., 2018. *Agile Methodology: An Overview*. ]Online[  
Available at: <https://zenkit.com/en/blog/agile-methodology-an-overview/>  
]Accessed 03 January 2020[.

powell-Morse, A., 2016. Iterative Model: What Is It And When Should You Use It?. *Iterative model*, 15 December.

Powell-Morse, A., 2016. *Waterfall Model: What Is It and When Should You Use It?*. ]Online[  
Available at: <https://airbrake.io/blog/sdlc/waterfall-model>  
]Accessed 04 January 2020[.

Professor Diana Strazdes, D. A. C., 2019. *Undergraduate Research Center*. ]Online[  
Available at: <https://urc.ucdavis.edu>  
]Accessed 02 January 2020[.

Sabnis, M., 2019. et curry.com. *What's New in ASP.NET MVC 5 that make your MVC web sites shine*, 02 January, pp. 1-4.

Sacolick, I., 2018. *What is agile methodology? Modern software development explained*.  
]Online[  
Available at: <https://www.infoworld.com/article/3237508/what-is-agile-methodology-modern-software-development-explained.html>  
]Accessed 03 January 2020[.

T., R, A., Blythe & b., 2008. Attention to treatment fidelity in social work outcomes. *Social Work Research*, III)32(, pp. 185-190.

www.computerhope.com, 2019. *Computer hope*. ]Online[  
Available at: <https://www.computerhope.com/jargon/v/visual-studio.htm>  
]Accessed 02 January 2020[.

www.Csharpstar.com, 2015. *Core Features of ASP.net MVC*. ]Online[  
Available at: <https://www.csharpstar.com/core-features-of-asp-net-mvc/>  
]Accessed 02 January 2020[.

www.guru99.com, 2018. *What is .NET Framework? Complete Architecture Tutorial*. ]Online[  
Available at: <https://www.guru99.com/net-framework.html>  
]Accessed 02 January 2020[.

www.guru99.com, 2019. *What is SQL Server? Introduction, History, Editions, Instances*.  
]Online[  
Available at: <https://www.guru99.com/sql-server-introduction.html>  
]Accessed 02 January 2020[.

www.innovativeartitecture.com, 2018. *Innovative aartitecture*. ]Online[  
Available at: <http://www.inovativeaartitecture.com/>  
]Accessed 2 January 2020[.

www.toolsqa.com, 2016. *Waterfall model*. ]Online[  
Available at: <https://www.toolsqa.com/software-testing/waterfall-model/>  
]Accessed 25 December 2019[.

www.ukessays.com, 2016. *Methodology the waterfall model information*. ]Online[  
Available at: <https://www.ukessays.com/essays/information-technology/methodology-the-waterfall-model-information-technology-essay.php>  
]Accessed 01 January 2020[.

## **Section-8: Appendices**

### **8.1. Agile methodology**

Every software development organization today seems to practice the agile software development methodology, or a version of it. Or at least they believe they do. Whether you are new to application development or learned about software development decades ago using the waterfall



software development methodology, today your work is at least influenced by the agile methodology )Sacolick, 2018(.

In the 1990s, software development faced a bit of a crisis. Referred to as ‘the application development crisis’ or ‘application delivery lag’, the industry realized that it couldn’t move fast enough to meet customer demands and requirements, the estimated time between a business need and actual application was about three years. See, traditional development models were based on a timeline approach, where development happened sequentially and the final product wasn’t revealed to customers until the very final step. This left little room for flexibility when it came to progress reviews and changes. So, by the time an actual application was finished, it was highly likely that requirements and systems of the project’s original objectives had changed. With money and efforts wasted, and even some projects cancelled halfway through, professional leaders of the software community thought it was time for a new, refreshed approach. Then in 2001, in a snowy, ski lodge in Utah, gathered 17 individuals. Some of whom were already entertaining the idea of a new software development method. They all yearned to cement a process that legitimized what was being practiced, and so, came the creation of the Agile Manifesto )Muslihat, 2018(.

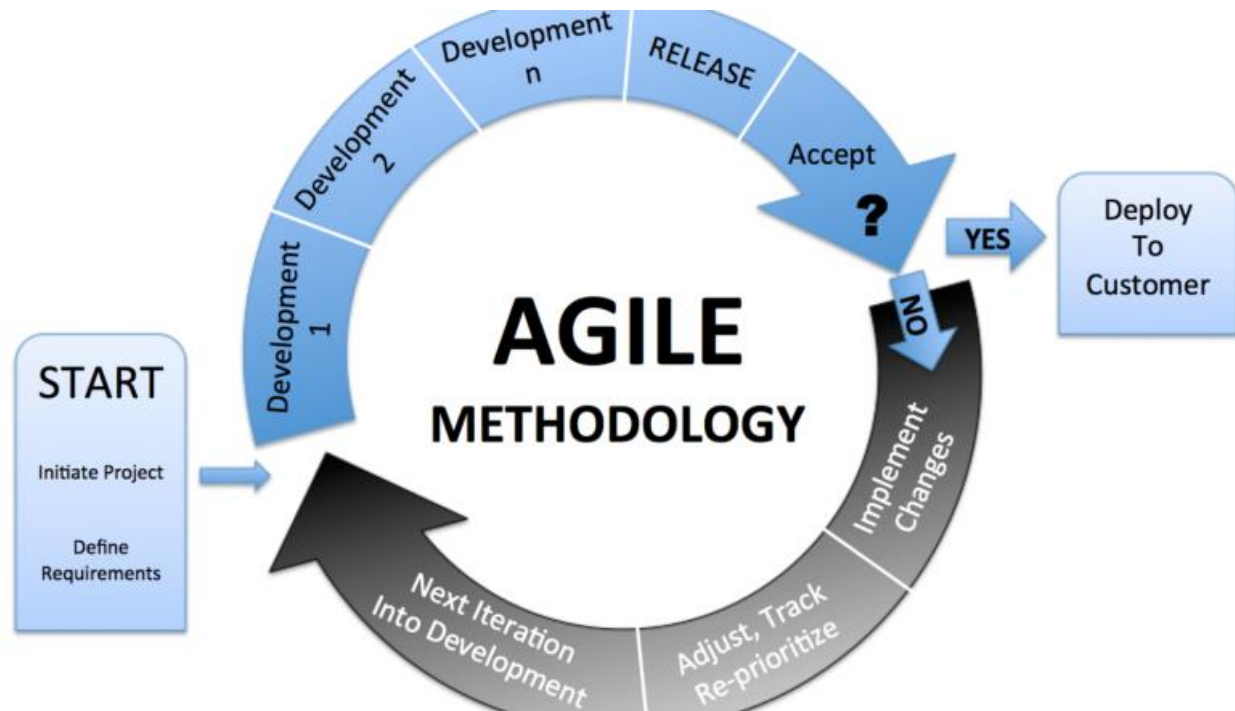


Figure 19: Figure of Agile Methodology

Some advantages of the Agile model are given below:-

- Customer satisfaction by rapid, continuous delivery of useful software.
- People and interactions are emphasized rather than process and tools. Customers, developers and testers constantly interact with each other.
- Working software is delivered frequently (weeks rather than months).
- Face-to-face conversation is the best form of communication.
- Close, daily cooperation between business people and developers.
- Continuous attention to technical excellence and good design.
- Regular adaptation to changing circumstances.
- Even late changes in requirements are welcomed.

Disadvantages of Agile model are also given:-

- In case of some software deliverables, especially the large ones, it is difficult to assess the effort required at the beginning of the software development life cycle.
- There is lack of emphasis on necessary designing and documentation.
- The project can easily get taken off track if the customer representative is not clear what final outcome that they want.
- Only senior programmers are capable of taking the kind of decisions required during the development process. Hence it has no place for newbie programmers, unless combined with experienced resources (360Logica.com, 2019).

Waterfall model

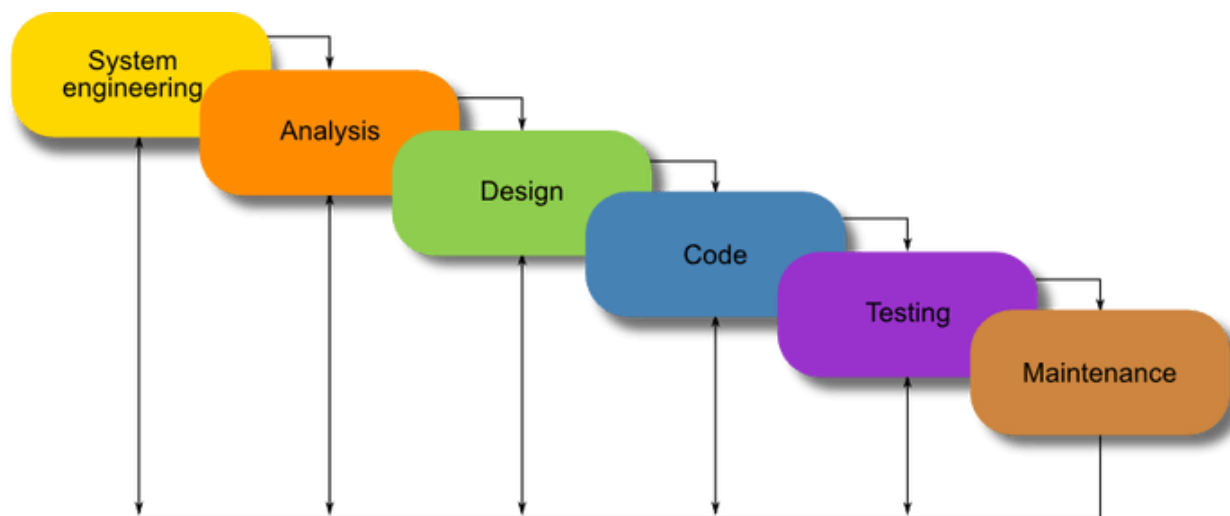


Figure 20: Figure of Water fall model

First introduced by Dr. Winston W. Royce in a paper published in 1970, the waterfall model is a software development process. The waterfall model emphasizes that a logical progression of steps be taken throughout the software development life cycle (SDLC), much like the cascading steps down an incremental waterfall. While the popularity of the waterfall model has waned over recent years in favor of more agile methodologies, the logical nature of the sequential process used in the

waterfall method cannot be denied, and it remains a common design process in the industry  
)Powell-Morse, 2016(.

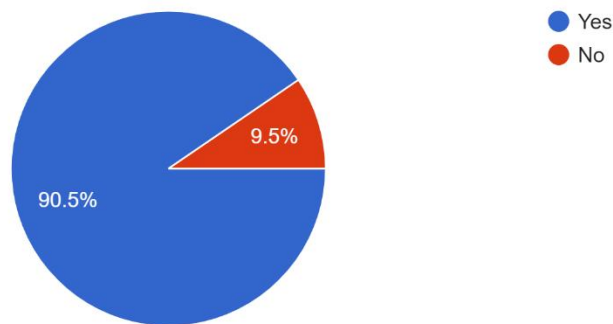
## 8.2. Survey Result

Twenty –one people responded to the survey form and the results are demonstrated beow:-

### 1. Survey Question no.1

1. Have you donate something in your life?

21 responses



*Figure 21: Figure of Survey, Question no.1*

This survey is about anyone have donated something in their life or not. The survey shows 90.5% people have donated and 9.5% of people haven't donated yet.

## 2. Survey Question no.2

2. How do you prefer to donate?

21 responses

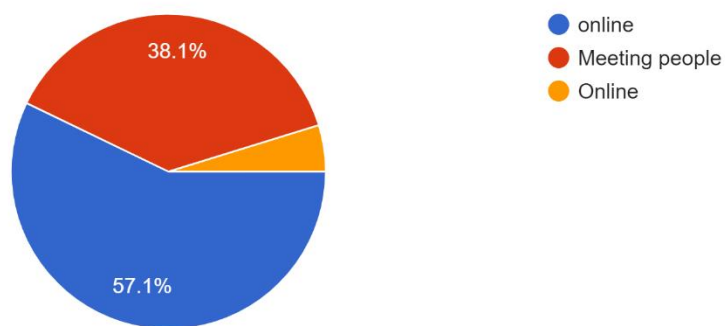


Figure 22: Figure of Survey, Question no.2

This survey shows that 57.1% people do prefer to donate online, 38.1% of people are interested to donate by meeting people and 4.8% people are also online.

### 3. Survey Question no.3

3. Have you know any donation collection website before?

21 responses

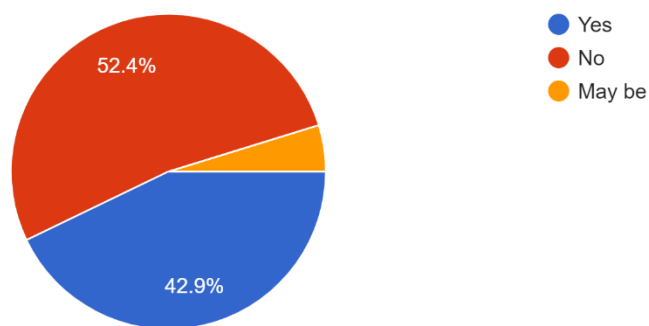


Figure 23: Figure of Survey, Question no.3

The above survey result shows that 54.2% people have not seen such type of website before, 49.2% have known and rest have no idea about it.

#### 4. Survey Question no.4

4. How would you rate your donation experience?

20 responses

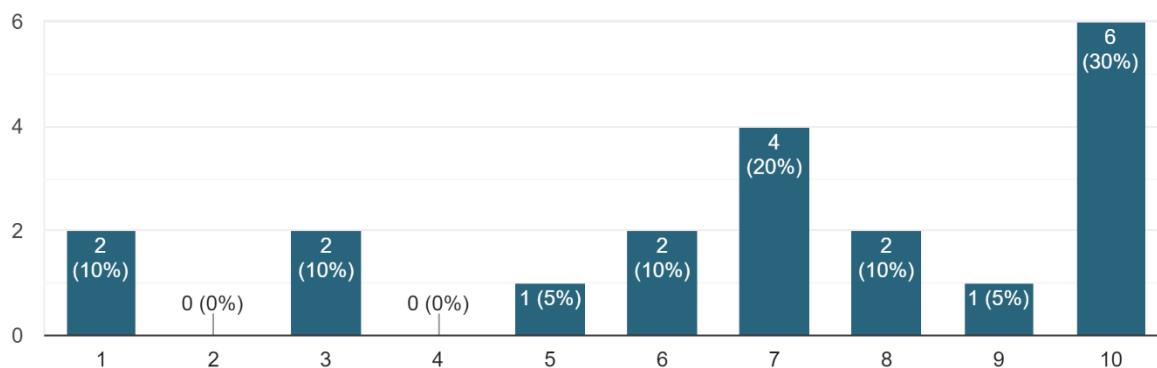


Figure 24: Figure of Survey, Question no.4

#### 5. Survey Question no.5

5. How much difference do you feel your donation had made or will make in our society?

21 responses

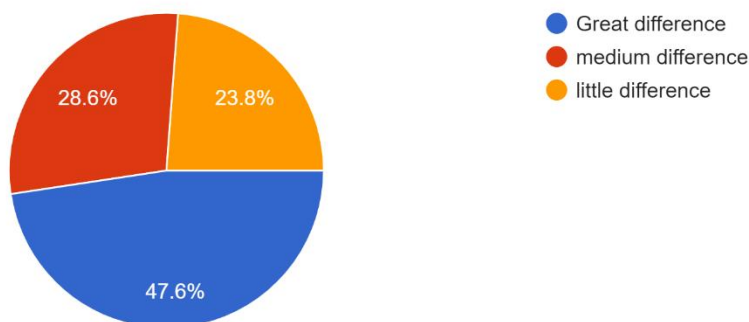


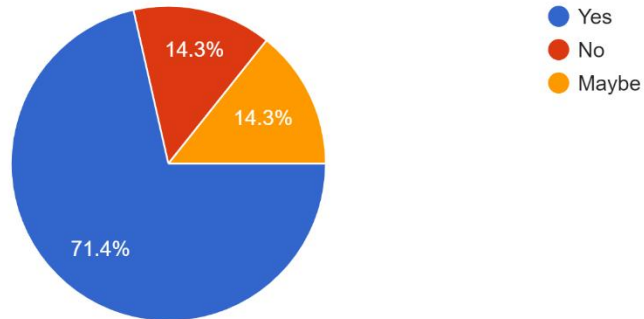
Figure 25: Figure of Survey, Question no.5

This survey data shows 47.6% people think this system will bring great difference, 28.6% think medium difference and 23.8% think it will be little difference.

**6. Survey Question no.6**

6. Do you think donation website are reliable?

21 responses



*Figure 26: Figure of Survey, Question no.6*

The above survey shows that 71.4% thinks it is reliable, 14.3% thinks no, and 14.% are still confused.

**7. Survey Question no.7**



7. Rate the usefulness of this website from your perspective.

20 responses

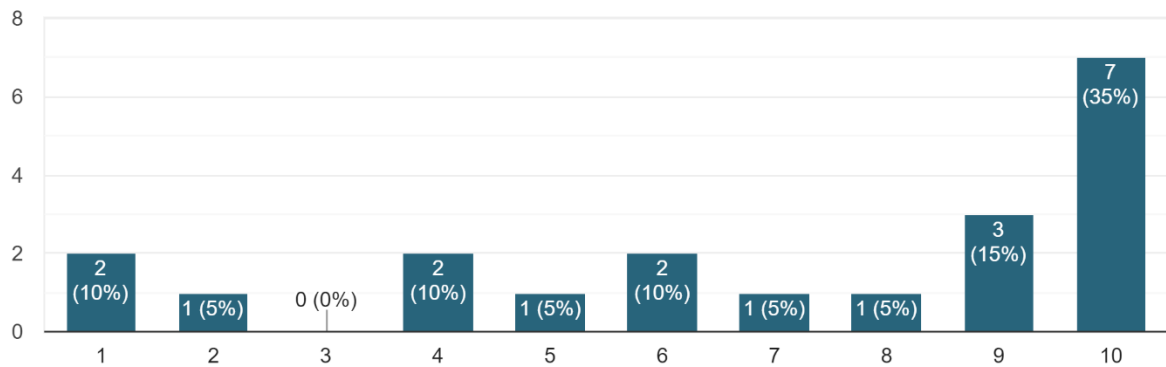


Figure 27: Figure of Survey, Question no.7

## 8. Survey Question no.8

8. Do you prefer simple and interactive interface for the social service like donating used stuffs?

21 responses

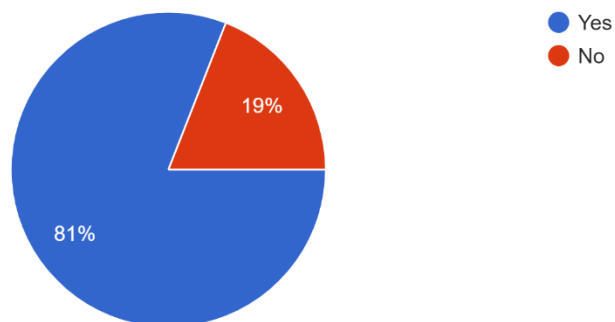


Figure 28: Figure of Survey, Question no.8

From the above data we can say that 81% people thinks it is simple, 19% thinks not simple.

9. Survey Question no.9

9. Will you use this 100's group website for donation ?

21 responses

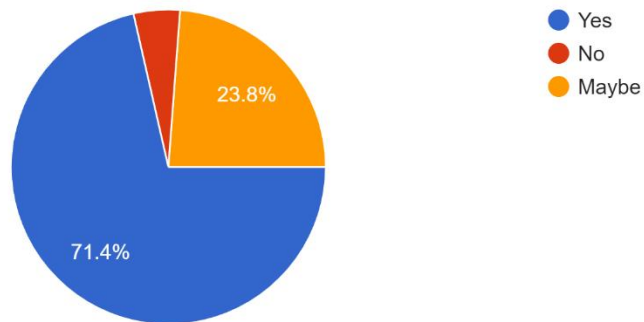


Figure 29: Figure of Survey, Question no.9

As per the survey 71.4% will use this website and 23.8% may use in future but rest are totally out of mind.

10. Survey Question no.10

10. How far do you think this website medium will help to collect more donation?

18 responses

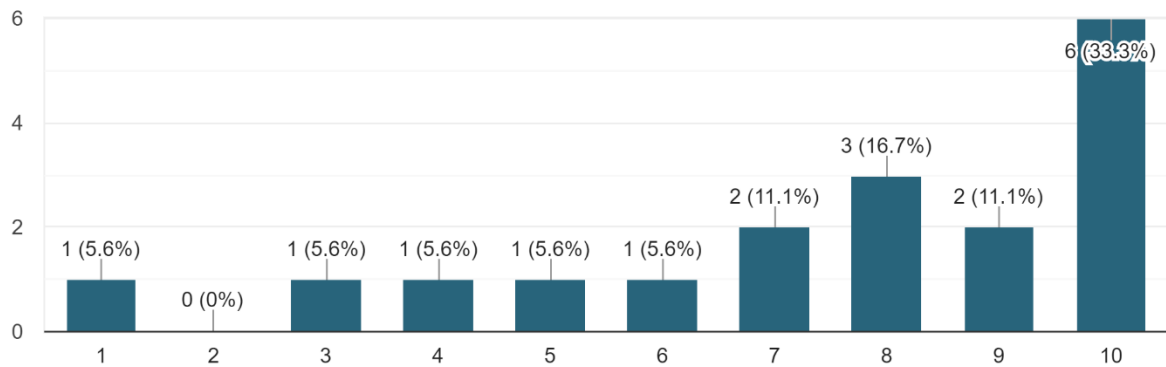


Figure 30: Figure of Survey, Question no.10

### 11. Survey Question no.11

11. How do you feel this way of social service?

21 responses

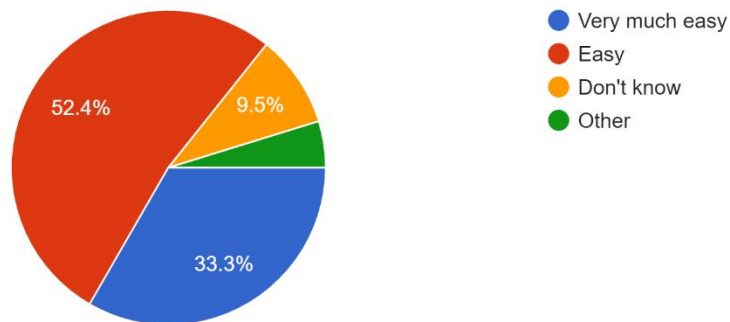


Figure 31: Figure of Survey, Question no.11

This survey data shows 52.4% feel easy way of social service, 33.3% thinks very much easy, 9.5% don't know.

