**Proposal of project**

**On**

**Dhurmus Santali Foundation**

****

Abiraj Timalsina

00174449

Computing Project

Batch: 22 ‘B’.

Submitted to: Niman Maharjan.

Table of Contents

[Tables of figures 3](#_Toc5644500)

[Chapter-1 Introduction 4](#_Toc5644501)

[1) Project Introduction 4](#_Toc5644502)

[2) Justification of Project 4](#_Toc5644503)

[A. Background of Project 4](#_Toc5644504)

[B. Problem statement 4](#_Toc5644505)

[3) Description of the Project 5](#_Toc5644506)

[A. Features. 5](#_Toc5644507)

[B. Overview of the project. 5](#_Toc5644508)

[Chapter-2 6](#_Toc5644509)

[1. Scope of the projects 6](#_Toc5644510)

[2. Limitation 6](#_Toc5644511)

[3. Aims 6](#_Toc5644512)

[4. Objectives 6](#_Toc5644513)

[5. Overview of the scope of the projects. 6](#_Toc5644514)

[Chapter 3 7](#_Toc5644515)

[Development methodology 7](#_Toc5644516)

[1. Waterfall model. 7](#_Toc5644517)

[2. Design Pattern 8](#_Toc5644518)

[A. MVC pattern 8](#_Toc5644519)

[3. System Architecture. 9](#_Toc5644520)

[Chapter 4 - **Project plan** 10](#_Toc5644521)

[1. Work breakdown structure. 10](#_Toc5644522)

[2. Milestones 11](#_Toc5644523)

[Explanation of milestones. 12](#_Toc5644524)

[3. Scheduling 13](#_Toc5644525)

[A. Time Estimation table 13](#_Toc5644526)

[B. Gantt chart 14](#_Toc5644527)

[Chapter-5 -Risk management 15](#_Toc5644528)

[Chapter 6 17](#_Toc5644529)

[Configuration management. 17](#_Toc5644530)

[Chapter- 7- Conclusion 18](#_Toc5644531)

[Chapter- 8- References: 19](#_Toc5644532)

# Tables of figures

1. Waterfall model………………………………….7
2. MVC structure……………………………………8
3. Tier structure……………………………………..9
4. Work breakdown structure……………………..10
5. Milestones………………………………………..11
6. Time estimation table……………………………13
7. Gantt chart………………………………………..14
8. Risk management figure………………………..15
9. Table of risk consequences…………………….16
10. Proposal updated on GitHub…………………….17
11. Path of project on CMD…………………………..17

# Chapter-1 Introduction

## Project Introduction

Dhurmus Suntali foundation is a non-profitable charity website working for foundation specially developed for raising funds, Awaring people from social problems, displaying the problems or critical situation happening in Nepal through website.

## Justification of Project

### Background of Project

Dhurmus Suntali Charity Foundation is a social organization of two social worker, comedian actors, “Dhurmus and Suntali” founded after the massive earthquake to serve the victims. This website provides the major problems with justification in Nepal in different fields such as education, health, poverty raising up due to natural disaster like storm, earthquake, flood, landslides and so on in details. Moreover, user can also donate everything to foundation as their wish including money. Which will support foundation to donate for victims.

Furthermore, user can see the every projects which is divided into three different basis that is completed, running or upcoming in details. In addition, for national and international donators they have to transfer their money for donation in foundations bank details which is provided in websites home page. Recapping, if they are organizing any events then you can obviously see it day by day. And for this project I have used PHP programming language with laravel and MySQL to handle database over the web.

## Problem statement

There are a small number of problems related to donation through online. Those who provide e-banking facilities for instance eSewa, PayPal in Nepal, and to bring that facilities into Dhurmus Suntali website for direct transaction, yet that agreement has not been done. So in that case for both national and international donators they have to transfer their money through bank to foundations bank details which are provide in home page of the website. Or, they should move in office and handover the donation by cash or by cheque or anything else as their wish.

# Description of the Project

## Features.

The Features are as follows:

* **User can send the messages or feedback:** Again the user can send the messages if they want to suggest them about what they should do next or they can share their fillings how they felt from their work, and their feedback about the system features and functions.
* **User can see blogs and events:** The user can also see the blogs and events about the foundation.
* **User can see the images from the gallery:** They can also see the images from the gallery and also in different format.
* **User can visit their different social pages of Dhurmus and Suntali-**

**(Call to action buttons):** They can also visit their different social page like Facebook, twitter, YouTube which is situated at the top of the home page of the website.

* **Admin can post the blog and events:** The admin can post the blogs and events from the admin panel before that they have to log on in.
* **User friendly:** The website is totally user friendly i.e. languages are written in Nepali and in English, HCI interfaces i.e. responsive site or can be use in different size of devices and suitable color and attractive fonts and designs and features.
* **Donation detail:** The foundations bank details such as account holder name, account number with bank name is provided in the home page of the website for donators either they are national and international.
* **Cookies set.**

## Overview of the project.

In overview, Dhurmus Suntali foundation in a social organization which is founded by the two comedian actors “Dhurmus” and “Suntali” after the massive destruction occurred in Nepal. With the intention to serve the nation and the victims they established this organization and website to display the problems with details and to ask for donation.

This website show different problems, events which are now happening in Nepal with details and as well as it provide the details of the donators who donate in need, also display the information about the different projects which divided into different parts as completed, ongoing and future projects where user can see all of these. User can see pictures from the gallery pages and can send their reviews.

But there is a small problem regarding with this website that is, in the current situation direct donation facility through this website is not available which means founders has not done agreement with those who provide online transaction services like eSewa, PayPal etc. but in this case they have to transfer money through the bank to the foundation bank details which is also provided in the home page of the website.

# Chapter-2

## Scope of the projects

The website help to store information in database such as reviews information, news and events information, user can know who are the sponsors of this foundation etc.

### Limitation

Limitations are as follows:

In current situation directly donation facilities through this website is not available. So, donators should transfer money in the foundations bank account where the bank details of foundation are provided in home page of the foundations website or, they should move in office and handover the donation by cash or by cheque or anything else as their wish.

### Aims

The aims of this project is

* To increase awareness for citizens from social problems like dowry system, scarcity, women backwardness, human discrimination, child labor and discrimination and from many other problems.
* To attract high amount of national or international investors or donators by displaying the social problems in website.
* To build a system fully automated.
* To raise fund.

### Objectives

The main objective of the Dhurmus Suntali foundation are:

* By establishing different awareness programs about social problems in different places, showbiz programs in national and international seminars and so on.
* Through advertising by notifying that “vacancy is opened for volunteer and contact or send application for participation”.
* By displaying more problems, requesting for donation to raise more fund.

## Overview of the scope of the projects.

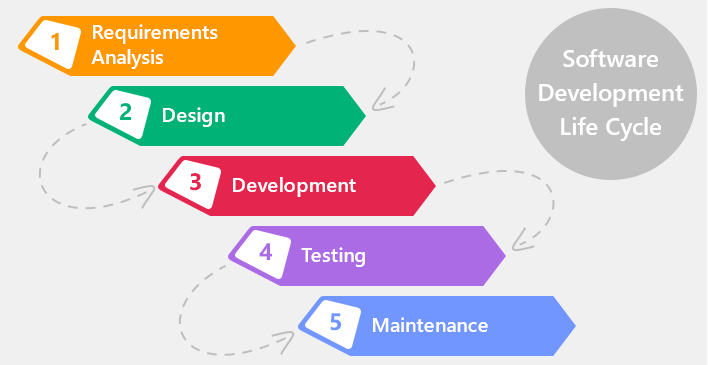
In overview, the foundations website help to provide the information about the social problem happening in whole over the Nepal with causes and awareness to the user with displaying solution as completed projects. The limitation of this project Is that direct donation is not available through this website so donators should transform money in the foundations bank account or they should donate either by hand to hand cash or check by moving in office. And to conclude, the aims and the objectives of this projects is to build system fully automated, Awaring people for reducing social problems like child and adults involving in drug addiction, women domination and backwardness so on.

# Chapter 3

## Development methodology

Here I have used waterfall model of software development life cycle. In this method before the next period begin, each period must be complete and this period do not overlap.

## Waterfall model.

****

1. Fig: Waterfall model.

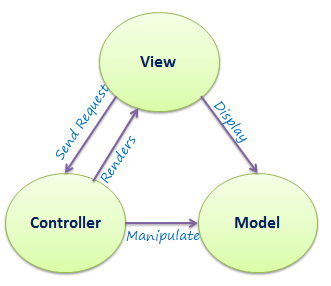
Reason for choosing this method is:

* Because it reduce number of challenging issues.
* For my project all the requirements are understandable and there is no other unclear requirements.
* And also there is perfect clue of what should be the finishing product.
* As I am working under the milestone which is also well suited for my project due to the inherent linear structure of waterfall model. Which also benefit for the project that needs time limit.

## Design Pattern

### MVC pattern

I am exhausting MVC (Model, View, and Controller) pattern while developing website. It is a pattern usually used to develop the interfaces that shares an application into three parts. It was used while developing desktop graphical user interface but now it also popular while developing websites.



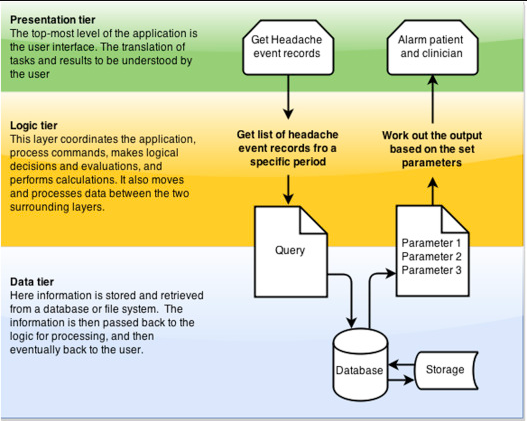
1. Fig: Model, view and Controller design

Reason for choosing MVC pattern for doing this project are as follows:

* If something is needed to changes then it does not affect the entire model.
* It upkeep quick and equivalent development.
* It is object oriented since it will be easier to troubleshoot.
* The coding standard will be maintained.
* It sustenance a serial technique.
* The development process will increase.

## System Architecture.

System architecture is the model that handles the overall structure, view and the performance of the system. Here, I have used three tier structure for the project.



1. Fig: Tier Structure.

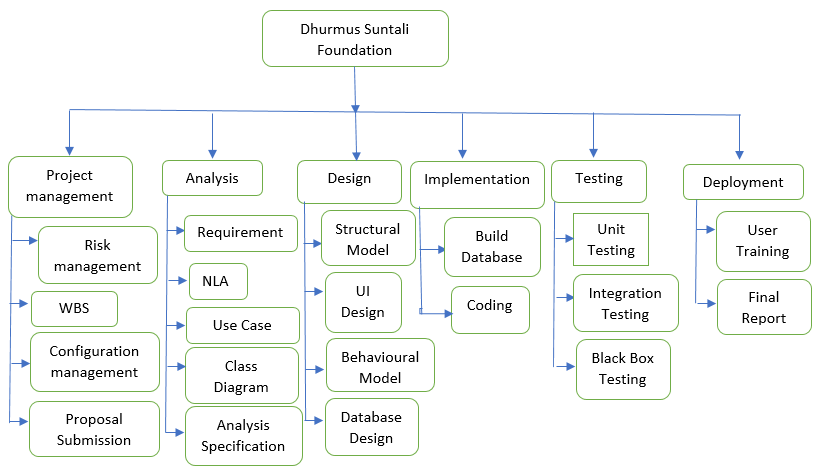
Reason behind using three tier structure is

* For primary facilities it enhances autonomous and reliability.
* Similarly, it also increase the performance by reducing the load on the application and data tiers.
* It also help to reduce the network consumption.
* It Increase the data security.
* It helps to hide the structure of the database and also prevent from data redundancy.

# Chapter 4 - **Project plan**

## Work breakdown structure.

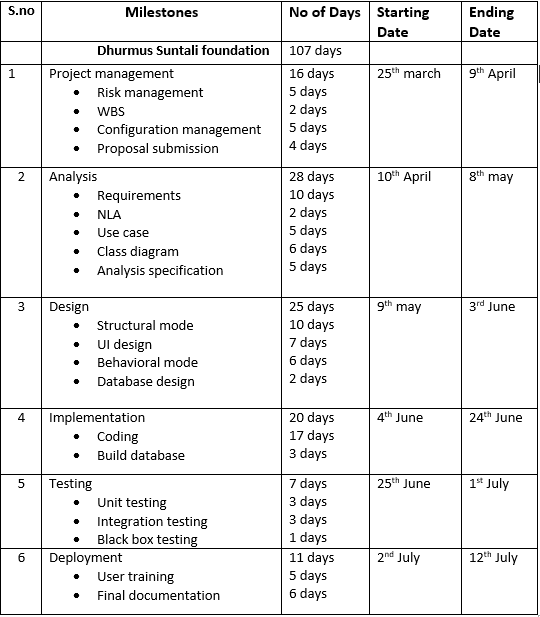
The work breakdown structure is the deliverable-oriented that ordered breakdown of the work to be completed by the assignment team to undertake the assignment aims and generate the mandatory deliverables. Generally, work breakdown is used by project manager to execute the project.



1. Fig: work breakdown structure.

## Milestones

Milestone is a contrivance applied while managing project which is used to measure the progress of a project on the way to its final objective.



1. Fig: milestone.

## Explanation of milestones.

For each stage I have allocated different days such as for:

**Project management:** I have distributed 16 days for project management for different part like 5 days for risk management because before developing the system we have to identify the chances of the risk that we should face with them. So, to manage them I have allocated 5 days for it. Likewise 2 days for WBS, 5 days for configuration management and 4 days for proposal submission so, that if I have to modify it I could do within those days.

**Analysis:** also for this I have categorized number of days for different parts which come under this. Like I have assigned 10 days for requirements because clients mind always change and increase the demand of features day by day so until and unless complete requirement has not been collected system development will not start. Likewise I have allocated 2 days for NLA, 5 days for use case diagram, 6 days for class diagram and 5 days for analysis specification, altogether 28 days for analysis.

**Design:** but here in design I have apportioned 25 days for design because this phase is confusing part and takes quite long time than other process. Like that I have apportioned 10 days for structural mode because this part take long time due to making site responsive, user-friendly and so on. Similarly, I have allotted 7 days for UI design, 6 days for behavioral mode and then 2 days for database design.

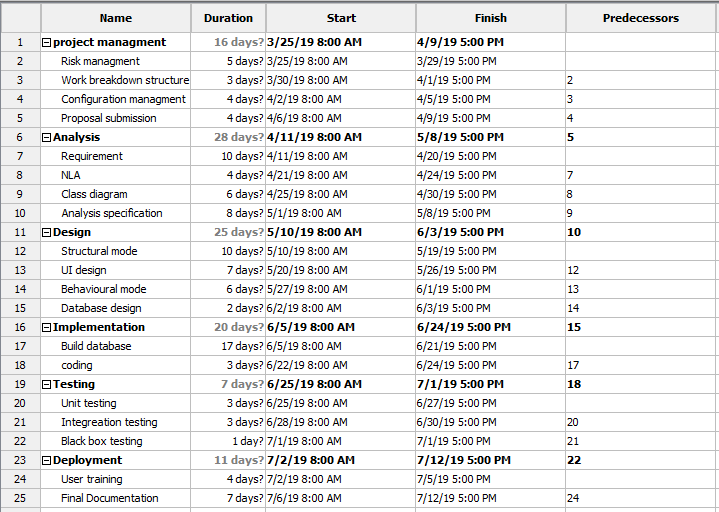
**Implementation:** this is the most headache part and difficult part where I have to do coding to add features so I have allotted altogether 20 days. Such as, 10 days for coding and 3 days for building database.

**Testing:** Testing is also the most important part in web development. We have to checks links, grammar and so on. So for this part I have allotted altogether 7 days.

**Deployment:** if some changes is needed in project then we have to complete within the allotted time which I have distributed 11 days for deployment. Where 7 days for final documentation and 5 days for user training.

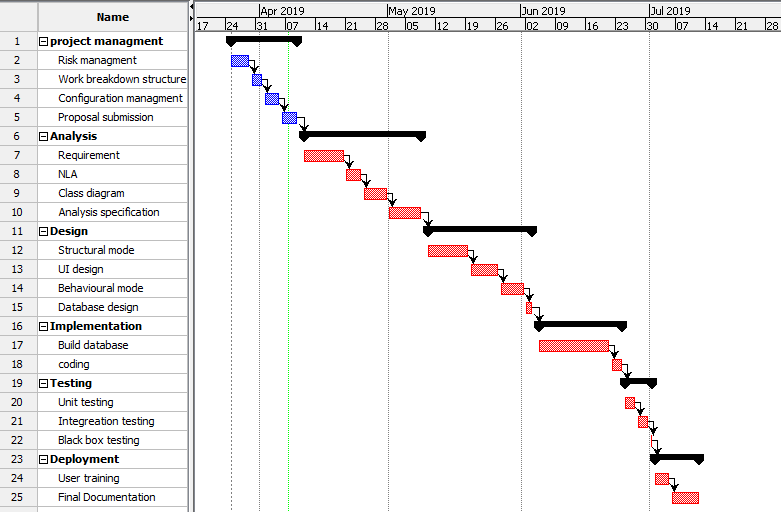
## Scheduling

## Time Estimation table



1. Fig: Time estimation table for task.

## Gantt chart



1. Fig: Gantt chart of Dhurmus Suntali foundation.

# Chapter-5 -Risk management

Risk management the process of recognizing, considering and monitoring intimidations to an administration's assets and incomes. And the below figure shows method to control risk management.

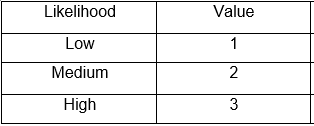


1. Fig: Risk management.

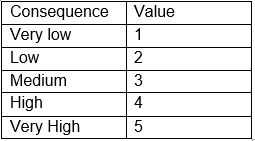
How did I manage risk for my system?

* I have identified the risk that might prevent from achieving user goals like: database attack, risk in structure, problems in links and so on.
* And also assess risk that all those risk that I have mentioned above are dangerous.
* So for those risk I have plan to control it such as, I will use the hashing function to encrypt the admin password in database and also making the website responsive and user friendly for user satisfaction and finally checking the links properly before deploying the website to the owner are planning and controlling methods for risk that I have applied.
* Continuing those plans and controlling as review for risk management in future also.

The risk likelihood with its values of this projects are shown below**.**



1. Fig: Risk likelihood.



1. Fig: Risk consequences

The table of risk consequences are shown below.



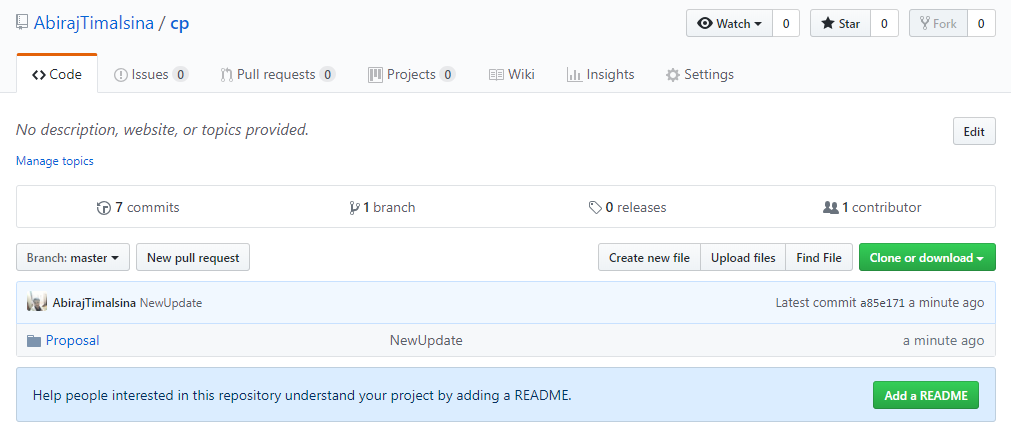
1. Fig: Table of risk consequences

# Chapter 6

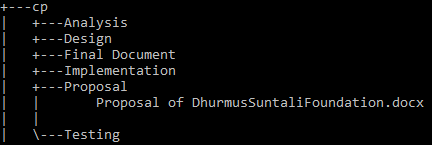
## Configuration management.

It is the process of monitoring the modifications and tracing in software in relations of necessities, design, utilities and improvement of the product.

My Link: <https://github.com/AbirajTimalsina/cp>



1. Fig: proposal updated on GitHub.



1. Fig: Tree structure of Dhurmus Suntali foundation on cmd.

# Chapter- 7- Conclusion

Dhurmus Suntali foundation in of the one of the most wanted and popular social foundation website which has features of user friendly, responsive for any kind of devices where user can see news and blogs, admin can post news and blogs, but the only one limitation Is user cannot donate directly through the foundation website for that the user have to donate their amount from bank to the foundation’s bank account where the bank details are provided in the home page, not only this user can also see the pictures from the gallery and can see the list of donators from the donators page. They not only can know the news and blogs but also can know the current problems happening in the country and then the news for help they needed.

# Chapter- 8- References:

Waterfall picture:

(2019) <https://xbsoftware.com/blog/software-development-life-cycle-waterfall-model/>

Risk management picture.

(2019) <https://www.istockphoto.com/photos/risk-management>

Tier structure:

(2019) <https://pixark.gamepedia.com/Structure_Tier>

MVC structure:

(2019) <https://www.tutorialsteacher.com/mvc/mvc-architecture>