Chapter 1

INTRODUCTION

1. Background

The institution Don Bosco High School and Junior College is high school and junior college situated in Oros. The institute do not have website for this reason the institute have a module which is hosted on website of Don Bosco Panjim Goa. There are many limitation and shortcomings of the module.

Thus this project is considered to deal with all the shortcomings and limitations produced by the module of the institute. This website will consist of good look and feel which will match the profile of the institute and display maximum information on the website. The website will have various functionalities like updating the website and content management via the admin panel of the website.

The institute Don Bosco High School and Junior College have a module hosted on Don Bosco Panjim Website but it become hectic for the institute parents and other viewers to check any activities of school. The module is slightly difficult to find and it's almost indictable at the first time. Thus the time is wasted and insufficient info is gained due to less control over the module.

The current working of the module is also hectic. Firstly it is on weekly basis reporting. The institute if organized any events then send photograph and report to the Don Bosco Panjim then they will upload. But it takes many days to upload the events photos.

There are numerous activities and events organized by the institute if there is website then its easy to show the events to parents and everyone. There will notice uploading in the website for the parents.

For the better schooling the involvement of parent is must necessary thus the parents view is very important thus they will be allowed to give feedback to the school.

The alumni are undiscovered in the module thus their inforation will be stored using the registeration form and displayed in the websites admin panel.

2. Objectives

There are some aims and objectives of the project. They are as follows:

1] To display the work through the web platform.

2] To develop user friendly system for institute.

3] To develop system which will supports functionalities for users.

4] To involve parents, teachers, students and alumni in the website.

6] To give more secure system than existing system.

7] To give system that overcomes all limitations of existing system.

8] To gain experience of software development project.

9] To understand how to develop any system by using SDLC phases and Process Model.

3. Purpose and Scope

1] Purpose

In the existing the management of the module is under the Don Bosco Panjim here the website will be fully under the control of institute. It will be more beneficial because they will have a medium to showcase and display the skill. The institute will have its own domain name which is required for the institute.

The most important role of the website is to upload the information and events, picture on the website instantly and at any time. Thus it will help the parents and other related users to see the activities of the school. The time which was required for the module to upload the system now will be reduced.

2] Scope

In the present system there are multiple limits to eradicate this limits the website is being developed. The structure of the module was average look which was inappropriate considering the schools work.

Thus the new website is being developed to avoid all limitations.

3] Applicability

1. The project is applicable for the institute and the management of the institute as its roles is vast.

2. The website will help the management authorities of Don Bosco High School and Junior College Oros.

3. The institute prints brochures to display the work but after the hosting of website the cost of brochure will be reduced as the website will display the school in the systematic manner.

4. Achievement

This project is planned considering the achievements which will be occurred in future Website with a domain

1. Management of webiste by admin
2. The admin panel change the content of website.
3. There is dynamic content like updating, deleting, adding content in the website.
4. There will be information of institution and its programs.
5. There will be an event uploading facility which will upload the events.
6. There will be alumni section which will give information to admin and store the detail in website.
7. The website will have calender which will show the academic timetable of institution
8. The website can upload the album.
9. The album of website can add multiple images and can be viewed in the website.
10. The admin can upload important notices.
11. The notices can be viewed in website and can be downloaded.
12. The alumni of institution can register in the website.
13. The admin can view the alumni of the institute registered in website.
14. The donars can register in website.
15. The admin can view the donars registered in website.

5. Organization of Report:

The report is divided into seven parts. Each part deals with the different aspects of project. Each part has various chapters explaining in detail

Chapter 1:- This part discusses the important introductory concepts behind project like background, objective, purpose, scope, applicability, achievement.

Chapter 2:- This part discusses the technology and software development lifecycle model.

Chapter 3:- This part discusses the requirement and analysis such as problem definition, requirement specification, planning and scheduling, software and hardware requirement, preliminary product description and conceptual model.

Chapter 4:- This part discusses the system design in which discuss basic modules, data design (schema design, Data integrity and constraint), procedural design (logic diagram, data structure, algorithm design), user interface design, security issues and test case design.

Chapter 5:- Will include implementation and testing in which implementation approaches, Details and code efficiency, testing approaches, modifications and improvement, test cases will discuss.

Chapter 6:- Will include result and discussion in which test report, user documentation.

Chapter 7:- Will include conclusions in which conclusion, significance of the system, limitations of the system, Future scope of the project.

First 4 chapters was completed in last semester according to university schedule. As per the syllabus, I have completed remaining three chapters in this semester.

Chapter 2

SURVEY OF TECHNOLOGIES

Survey of Technologies

Survey of Technology contains a brief awareness and understanding about different and alternative technologies. There are many technologies which are used to develop all type of system.

1] Selection of front end technology:-

There are many front end technologies or GUI tools are available such as .Net technologies, Java, and HTML. Java is platform independent which runs on different operating systems like Windows, Linux etc. But .Net is only for Windows. HTML is used to create webpages.

I am selecting HTML as a front end technology for my project. I am developing website for Don Bosco High School and Junior College Oros. HTML is used to create WebPages. HTML has some advantages as follows:-

1] Every browser supports HTML language.

2] It is easy to learn and use.

3] It is by default in every window operating system so you don't need to purchase extra software.

2] Selection of back end technology:-

There are many back end technologies or Databases are available such as Oracle, MYSQL, SQL server etc. MySQL is an open source and it is available for free download and installation. Only oracle Express Edition is free of cost. Oracle provides enhanced database security.

I am selecting MySQL as a back end technology. MySQL provides more features than oracle. It has some advantages as follows:-

1] MySQL is the most secure and reliable database management system.

2] MySQL features a distinct storage-engine framework that facilitates system administrators to configure the MySQL database server for a flawless performance.

3] MySQL provides usability for any platform.

4] It makes maintenance, debugging and upgrades fast and easy while enhancing the end-user experience.

3] Selection of scripting languages:-

There are many scripting languages like PHP, JSP etc. PHP is an open source scripting system.

JSP is object oriented, so leads to cleaner code that's easier to debug, maintain and improve.

I am selecting PHP as scripting language. It has following advantages:-

1] This scripting language is extremely easy to learn, as compared to JSP.

2] PHP can do the same work in a few lines of code having maximum control over the websites.

3] It is scalable when writing the code as well as reliable too when you need to deal with lot of Web pages.

4] PHP also supports all the major web servers.

5] PHP uses its own memory, so the workload of the server and loading time get reduced.

4] Selection of Process Model:-

Between all these models, I choose **Waterfall Model** For my project

Waterfall Model:

1. The Waterfall Model is a linear sequential flow.

2. In which progress is seen as flowing steadily downwards (like a waterfall) through the phases of software implementation.

3. This means that any phase in the development process begins only if the previous phase is complete.

4. The waterfall approach does not define the process to go back to the previous phase to handle changes in requirement. The waterfall approach is the earliest approach and most widely known that was used for software development.

5. The phases of this model are:
   i) Requirement Gathering Phase
   ii) Analysis Phase
   iii) System Design Phase
   iv) Coding Phase
   v) Testing Phase
   vi) Implementation Phase

5] Choosing the right Software development life cycle Model:

Here we should demonstrate/describe understanding of available process model related to topic of project. Here we gives details of related process model that are necessary to project. We can perform project using different models like

- Waterfall model
- Spiral model
- Incremental model

Model/Feature	Waterfall Model	Spiral	Incremental/Iterative
Planning in early stages	Yes	Yes	Yes
Specification of all the requirements in the beginning	Yes	Not all and frequently changed	Not all and frequently changed
Returning to early phases	No	Yes	Yes
Long term project	Inappropriate	Appropriate	Appropriate
Cost	Not costly	costly	Costly
Cost estimation	Easy to estimate	Difficult	Difficult
Simplicity	Simple	Intermediate	Intermediate
Ease of implementation	Easy	Complex	Easy
Strong project implementation	Excellent	Excellent	Excellent
Documentation	Excellent	Good	Excellent
Component reusability	Excellent	Poor	Excellent
Detailed Documentation	Necessary	Yes	Yes but not much
Objective	High assurance	High assurance	Rapid development

STRUCTURE OF WATERFALL MODEL

Requirement Analysis → System Design → Coding → Testing → Deployment → Maintenance
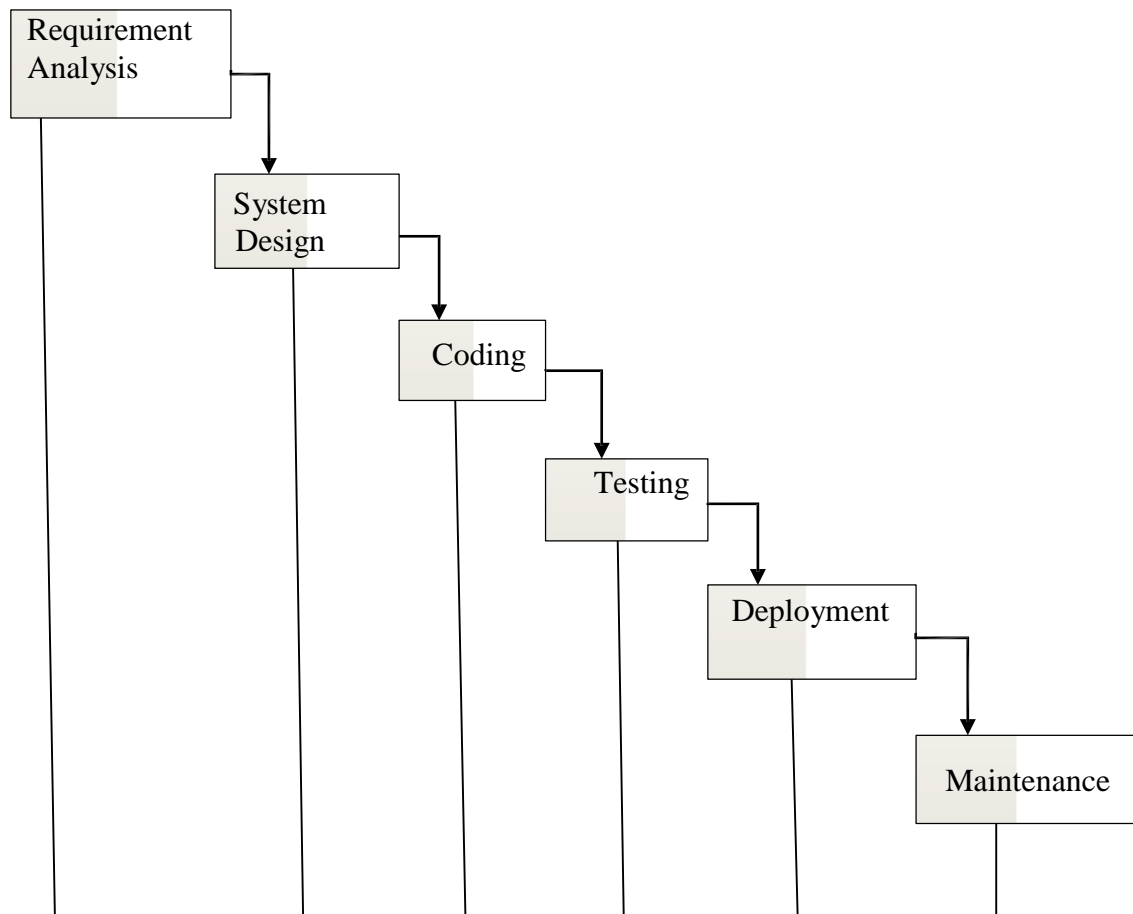
Chapter 3

REQUIREMENT AND ANALYSIS

Requirements and Analysis

1. Problem definition:

The school doesn't have website instead they have a module which is hosted on Don Bosco Panjim Website which results to problem like

1. The school have less control over it and cannot change modify update or delete content from oros.
2. The school needs to report every weekly/monthly basis in order to add the event.
3. The module only uploads the activities and events carried out by the school.
4. The infrastructure, about school, staff is not mentioned thus there is lack of information of school on website.
5. There is no provision for Alumni.
6. The module doesn't have donation option.

2. Requirement Specification

➤ Business and financial aspect:

1. Reduction of other cost like printing broachers and banners.
2. Displaying institutes events and activities in less time.
3. Saving time of institute.
4. This real time access reduces errors, improves cycle time, and is readily available to any authorized user.

2. Technical feasibility:

Where we are going to ask question like do we have all hardware and software to develop and deploy these proposed system. Technical requirements includes hardware and software requirements.

Both development and customer side is going to procure all these technical requirements, hence technical feasibility is pass.

All resources are available

> **Hardware requirements for developer side**:

1. Computer
2. Internet Connection.

> **Software requirements for development side**:

1. Notepad++/sublime
2. MY-SQL server
3. Xamp software to execute PHP
4. Host
5. Domain
6. Window OS

> **Hardware requirements for customer side**:

1. Computer
2. Internet
3. Mobile

> **Software requirements for customer side**:

1. Desktop/Laptop
2. Internet

1. Operational feasibility:

1. Feasible to operate
2. Agree with government regulations
3. Beneficial for all
4. Reduction in cost/increase in benefits

2. Economical feasibility:

- Cost effective:

  Using different cost estimation techniques like COCOMO, Cost expert, slim, costar, we are going to calculate following cost.

  1. Development cost
  2. Operational cost

Fact Finding Techniques:

There are various methods for collection requirements. Out of which I used interview techniques.

INTERVIEW

Sr. No.	Question for Management (Unstructure)
1	How should the website look?
2	What style do you expect?
3	Does the website be same like other Don Bosco Website or different?
4	What do you expect?

| Sr. No.	Question for Management (structure)	Answer
1	Who will be user the website?	Teacher, Students, Parents
2	What do you want to post?	Events and Upcoming Events
3	What can the users get access to?	Notice

3. Planning and scheduling:

WBS: **WORK BREAKDOWN STRUCTURE**

SR. NO.	PHASE/ACTIVITY/TASK	NO. OF DAYS	START DATE	END DATE
1	**INTRODUCTION**	32	5 July	5 Aug
1.1	Background	3	5 July	7 July
1.2	Objectives	3	8 July	10 July
1.3	Purpose, Scope, and Applicability	26	11 July	5 Aug
1.3.1	Purpose	5	11 July	15 July
1.3.2	Scope	5	16 July	20 July
1.3.3	Applicability	5	21 July	25 July
1.3.4	Achievements	5	26 July	30 July
1.3.5	Organization of Report	6	31 July	5 Aug
2	**SURVEY OF TECHNOLOGIES**	15	6 Aug	20 Aug
3	**REQUIREMENTS AND ANALYSIS**	26	21 Aug	15 Sept
3.1	Problem Definition	3	21 Aug	23Aug
3.2	Requirements Specification	3	24 Aug	26 Aug
3.3	Planning and Scheduling	3	27 Aug	29 Aug
3.4	Software and Hardware Requirements	5	30 Aug	3 Sept
3.5	Preliminary Product Description	2	4 Sept	5 Sept
3.6	Conceptual Models	10	6 Sept	15 Sept
4	**SYSTEM DESIGN**	30	16 Sept	15 Oct
4.1	Basic Modules	5	16 Sept	20 Sept
4.2	Data Design	6	21 Sept	26 Sept
4.2.1	Schema Design	3	21 Sept	23 Sept
4.2.2	Data Integrity and Constraints	3	24 Sept	26 Sept
4.3	Procedural Design	9	27 Sept	5 Oct
4.3.1	Logical Diagrams	5	27 Sept	1 Oct
4.3.2	Data Structures	3	2 Oct	4 Oct
4.3.3	Algorithm Design	1	5Oct	5 Oct
4.4	User interface design	7	6 Oct	12 Oct
4.5	Security Issue	1	13 Oct	13 Oct

4.6	Test case Design	2	14 Oct	15 Oct	
5	**IMPLIMENTATION AND TESTING**	141	16 Oct	5 Mar	
5.1	Implementation Approaches	16	16 Oct	31 Oct	
5.2	Coding Details and Code Efficiency	92	1 Nov	31 Jan	
5.2.1	Code Efficiency	92	1 Nov	31 Jan	
5.3	Testing Approach	28	1 Feb	28 Feb	
5.3.1	Unit Testing	14	1 Feb	14 Feb	
5.3.2	Integrated Testing	14	15 Feb	28 Feb	
5.4	Modifications and Improvements	5	1 Mar	5 Mar	
6	**RESULTS AND DISCUSSION**	24	6 Mar	29 Mar	
6.1	Test Reports	20	6 Mar	25 Mar	
6.2	User Documentation	4	26 Mar	29 Mar	
7	CONCLUSION	3	30 Mar	1 Apr	
7.1	Conclusion	1	30 Mar	30 Mar	
7.2	Future Scope of the Project	2	31 Mar	1Apr	

Here we can see Gantt chart for Proposed Activities
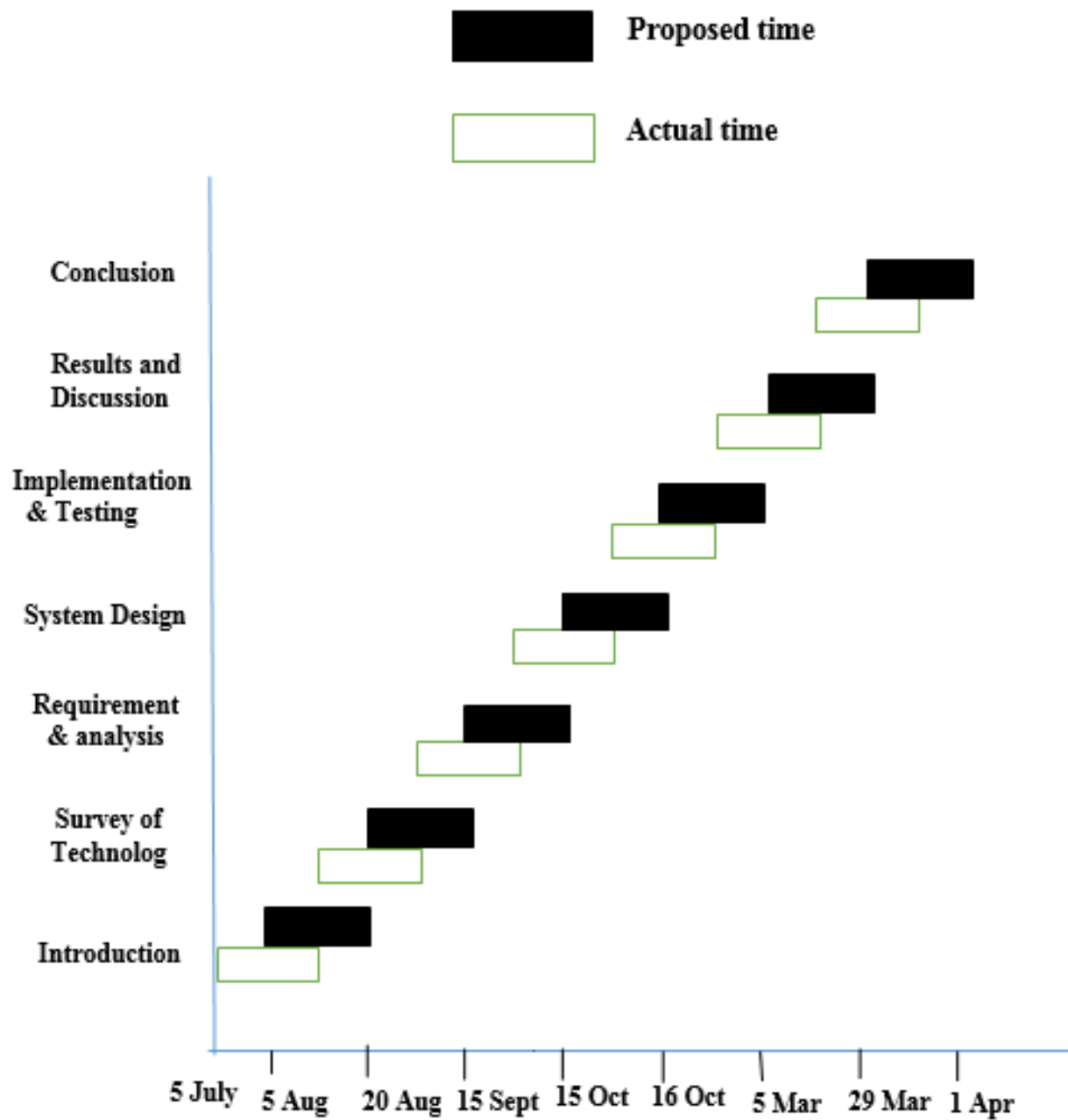
4. Software and Hardware Requirement:

Where we are going to ask question like do we have all hardware and software to develop and deploy these proposed system. Technical requirements includes hardware and software requirements.

Both development and customer side is going to procure all these technical requirements, hence technical feasibility is passing.

All resources are available.

➢ **Hardware Requirements (Minimum Requirements)**

1. **Minimum RAM:-**1GB
2. **Hard Disk:-**128 GB
3. **Processor:-**Intel Pentium 4(1.50 GHZ) or above

➢ **Software Requirements (Minimum Requirements)**

1. **Operating system :-** Windows XP
2. **Front-Design:-** HTML, CSS, Bootstrap
3. **Front-End Language :-** PHP
4. **Back-End :-** MySQL, XAMP

➢ **Tools**

1. Star UML Tool
2. Microsoft Word
3. Sublime Text 3

5. Preliminary Product Description:

Functional Requirement:

1. Displaying Institutes Information
2. Posting Events Photographs.
3. Uploading the notice of the institute.
4. Download notes for users.

Non-Functional Requirement:

1. Performance
2. Security
3. Data transfer
4. Data storage
5. Safety
6. Maintainability
7. Responsive
8. GUI
9. Response on time
10. Multiple client request Handling
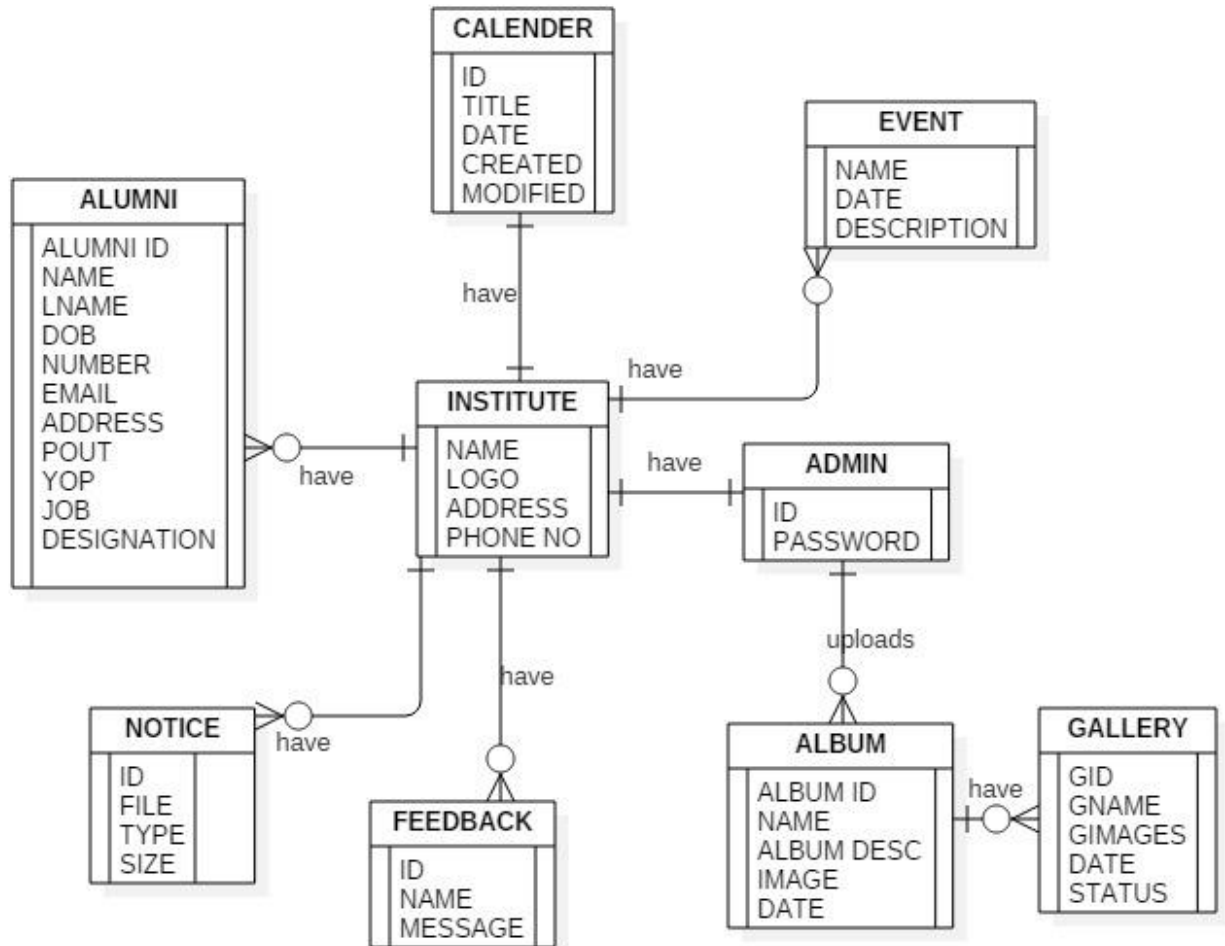
Project Working:

1. The website is available with all the static content and institutes information.
2. The admin can change make any correction using admin panel.
3. The admin can post events of the institutes then it is available.
4. The admin can post notice to users.
5. The users can download notices from website.
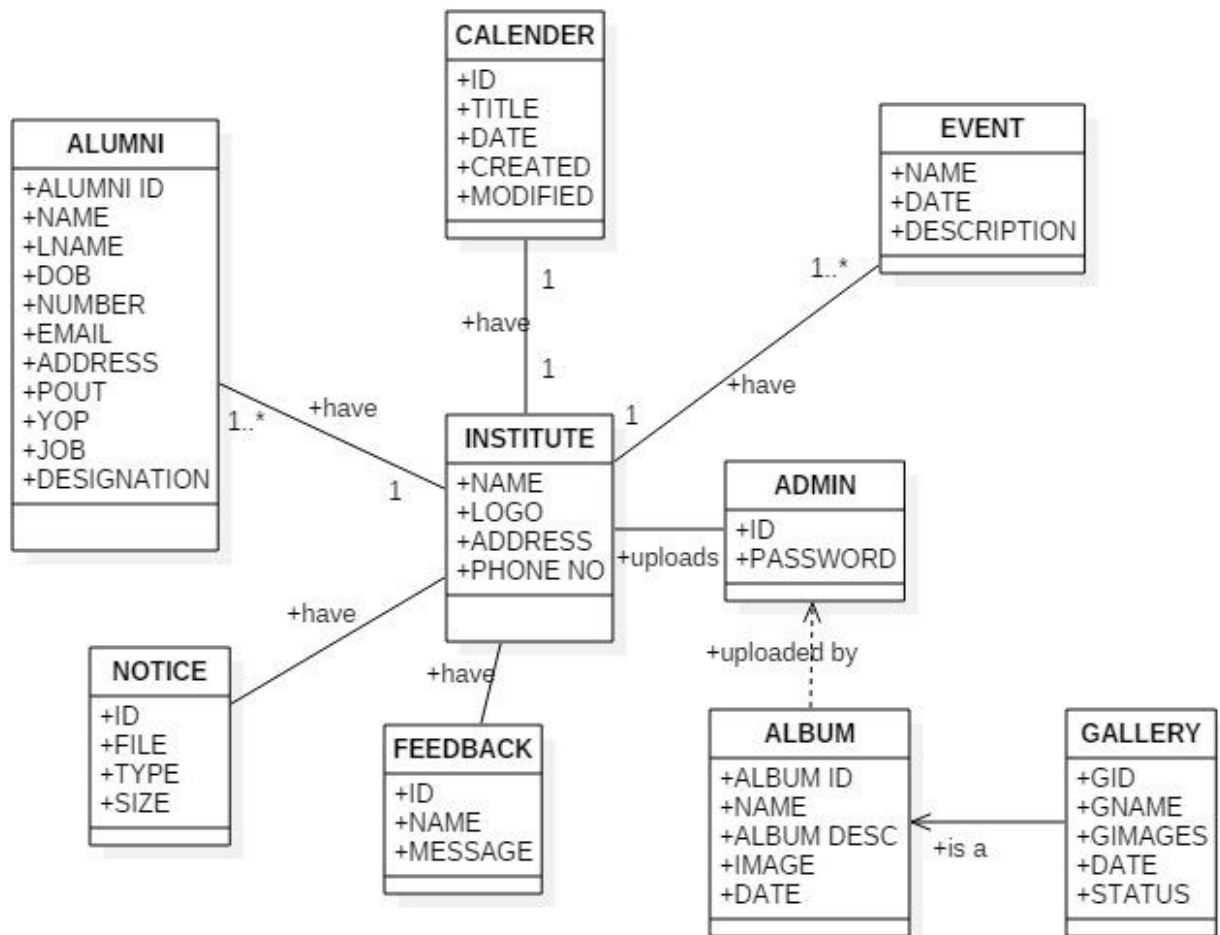6. The upcoming events can be displayed by the admin.

6. Conceptual Model:

In this section, I am covering class diagram, ER diagram and use case diagram. These diagrams shows all entities related to my project and theirs functioning which are helpful for understanding my project working.

1] ER Diagram

2] Class Diagram

CALENDER
+ID
+TITLE
+DATE
+CREATED
+MODIFIED

EVENT
+NAME
+DATE
+DESCRIPTION

ALUMNI
+ALUMNI ID
+NAME
+LNAME
+DOB
+NUMBER
+EMAIL
+ADDRESS
+POUT
+YOP
+JOB
+DESIGNATION

INSTITUTE
+NAME
+LOGO
+ADDRESS
+PHONE NO

ADMIN
+ID
+PASSWORD

NOTICE
+ID
+FILE
+TYPE
+SIZE

FEEDBACK
+ID
+NAME
+MESSAGE

ALBUM
+ALBUM ID
+NAME
+ALBUM DESC
+IMAGE
+DATE

GALLERY
+GID
+GNAME
+GIMAGES
+DATE
+STATUS

+have   1   +have   1..*   +have   +uploads   +uploaded by   1..*   +have   1   +have   1   +is a
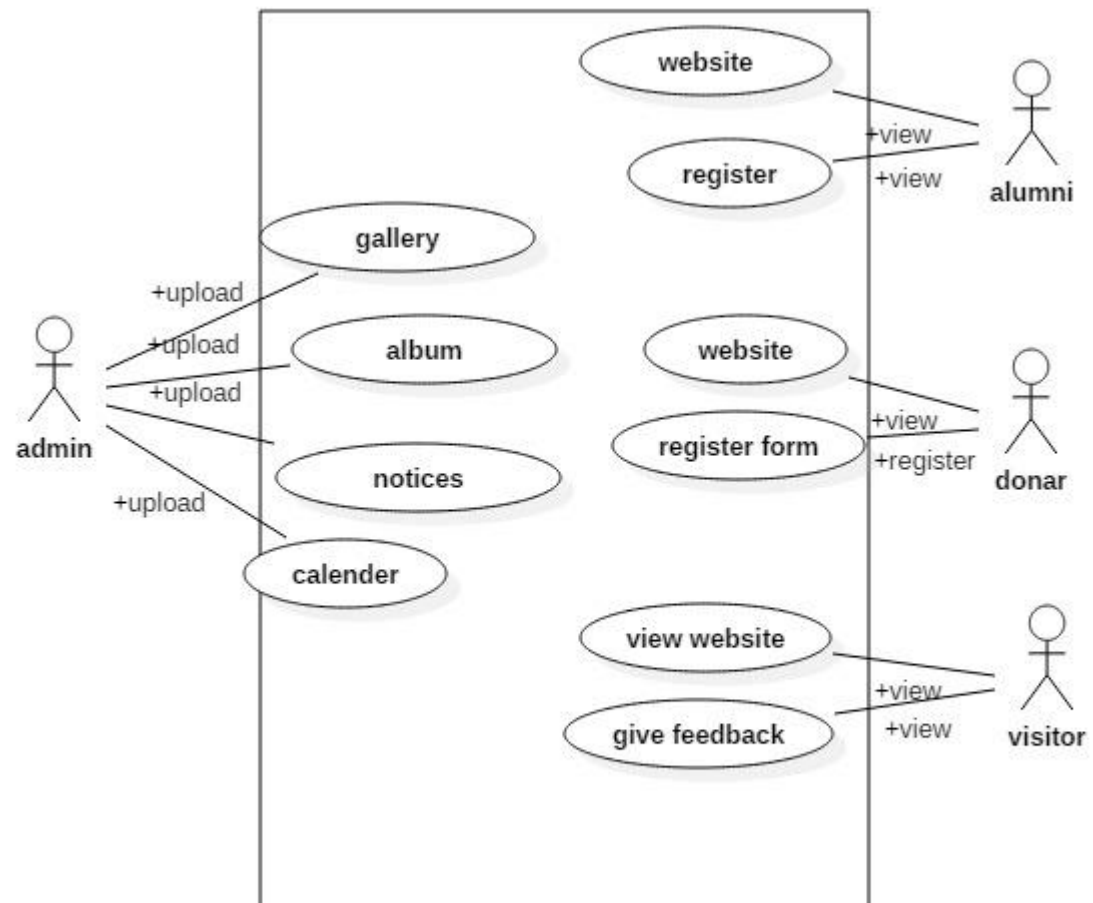
3] Use case Diagram

Chapter 4

SYSTEM DESIGN

System Design

1. Basic Modules:

1] Home

The home is the main page which consist of header, footer and contents it also has navigation to different link for the website. The slider has pictures of the institute.

2] Gallery

This section contains all the photos and videos of the institute. These shows all the events and activities performed by the institution. The gallery contain mostly all media related to institute.

3] Calender

The calender will show all the academic events of the institute. The days of calender highlights the event

3] About Us

This module has the information of the institute, the history and background. The contact details for all the staff will also be provided here.

4] Admin Panel

The admin panel have the feature to upload the photographs of the events, calender events, notice. The admin panel can also view the donars list and the registerd alumni.

2. Data Design:

Schema Design:

Under this point, we can see database table for different entities. In schema design we can see structure of database table which contains table name, column name and its data type.

1. ALUMNI TABLE

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	alumni_id	int(11)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial More
2	name	varchar(45)			No	None		Change Drop Primary Unique Index Spatial More
3	lname	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
4	dob	date			No	None		Change Drop Primary Unique Index Spatial More
5	number	int(10)			No	None		Change Drop Primary Unique Index Spatial More
6	email	varchar(40)			No	None		Change Drop Primary Unique Index Spatial More
7	address	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
8	pout	varchar(15)			No	None		Change Drop Primary Unique Index Spatial More
9	yop	int(4)			No	None		Change Drop Primary Unique Index Spatial More
10	job	varchar(20)			No	None		Change Drop Primary Unique Index Spatial More
11	designation	varchar(20)			No	None		Change Drop Primary Unique Index Spatial More

2. ALBUM TABLE

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	albumid	int(10)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext More
2	name	varchar(500)			No	None		Change Drop Primary Unique Index Spatial Fulltext More
3	adesc	varchar(1000)			No	None		Change Drop Primary Unique Index Spatial Fulltext More
4	image	varchar(500)			No	None		Change Drop Primary Unique Index Spatial Fulltext More
5	date	datetime			No	None		Change Drop Primary Unique Index Spatial Fulltext More
6	status	varchar(10)			No	None		Change Drop Primary Unique Index Spatial Fulltext More

3. GALLERY TABLE

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	gid	int(10)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext More
2	aid	int(10)			No	None		Change Drop Primary Unique Index Spatial Fulltext More
3	gname	varchar(1000)			No	None		Change Drop Primary Unique Index Spatial Fulltext More
4	gimages	varchar(1000)			No	None		Change Drop Primary Unique Index Spatial Fulltext More
5	date	datetime			No	None		Change Drop Primary Unique Index Spatial Fulltext More
6	status	varchar(20)			No	None		Change Drop Primary Unique Index Spatial Fulltext More

4. ADMIN TABLE

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	lid	int(10)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext More
2	username	varchar(10)			No	None		Change Drop Primary Unique Index Spatial Fulltext More
3	password	varchar(10)			No	None		Change Drop Primary Unique Index Spatial Fulltext More
4	type	varchar(10)			No	None		Change Drop Primary Unique Index Spatial Fulltext More

5. CALENDER TABLE

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	id	int(11)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext More
2	title	varchar(255)			No	None		Change Drop Primary Unique Index Spatial Fulltext More
3	date	date			No	None		Change Drop Primary Unique Index Spatial Fulltext More
4	created	datetime			No	None		Change Drop Primary Unique Index Spatial Fulltext More
5	modified	datetime			No	None		Change Drop Primary Unique Index Spatial Fulltext More
6	status	tinyint(1)			No	1		Change Drop Primary Unique Index Spatial Fulltext More

6. FILE UPLOAD

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	id	int(10)			No	None	AUTO_INCREMENT	Change ● Drop Primary Unique Index Spatial Fulltext More
2	file	varchar(100)			No	None		Change ● Drop Primary Unique Index Spatial Fulltext More
3	type	varchar(10)			No	None		Change ● Drop Primary Unique Index Spatial Fulltext More
4	size	int(11)			No	None		Change ● Drop Primary Unique Index Spatial Fulltext More

7. DONAR TABLE

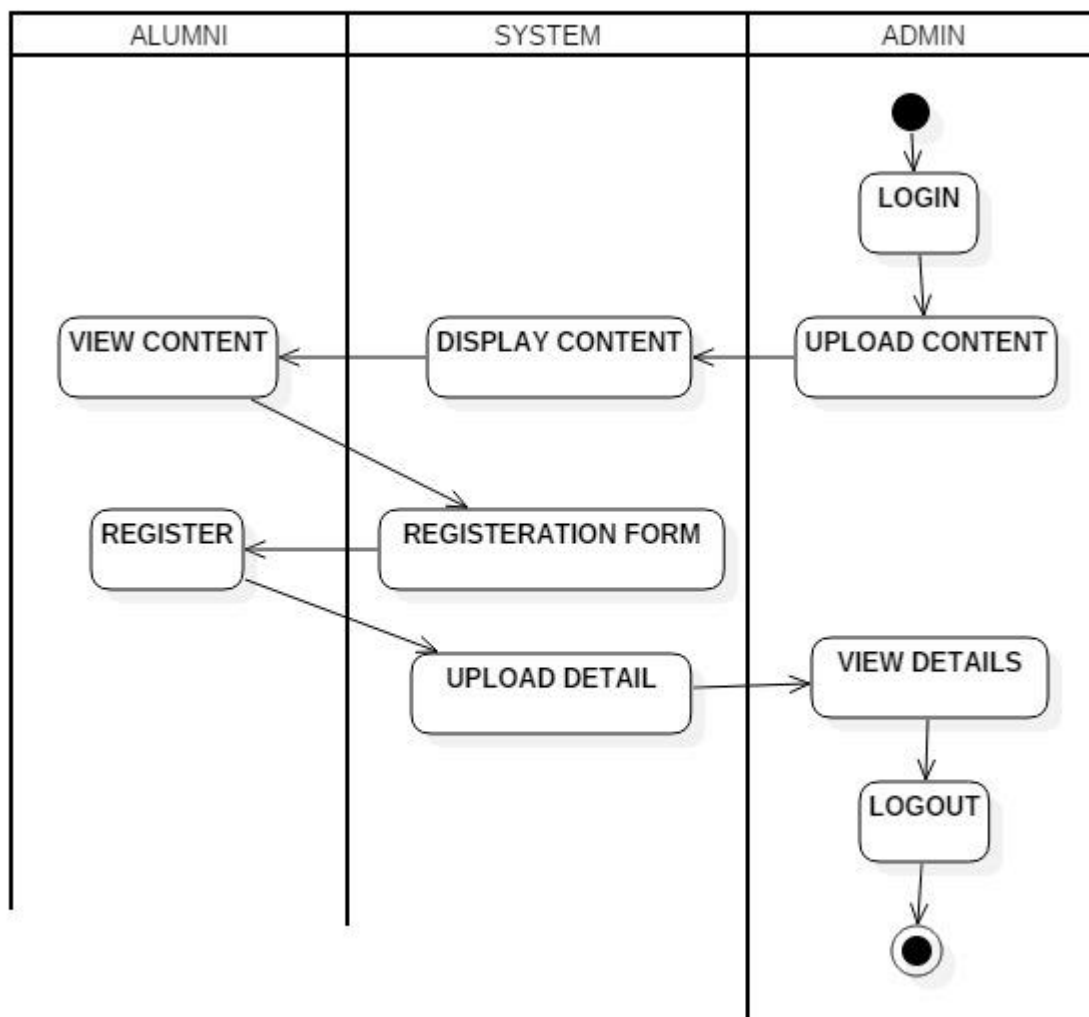| #	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	donar_id	int(11)			No	None	AUTO_INCREMENT	Change ● Drop Primary Unique Index Spatial Fulltext More
2	name	varchar(30)			No	None		Change ● Drop Primary Unique Index Spatial Fulltext More
3	email	varchar(30)			No	None		Change ● Drop Primary Unique Index Spatial Fulltext More
4	number	int(10)			No	None		Change ● Drop Primary Unique Index Spatial Fulltext More

3. Procedural Design:

Logic Diagrams:

These diagrams are playing important role for understanding system flow. Here in first diagram we can see the flow for users and in second diagram alumni of the institute interact with system and in third diagram it interacts with donars.
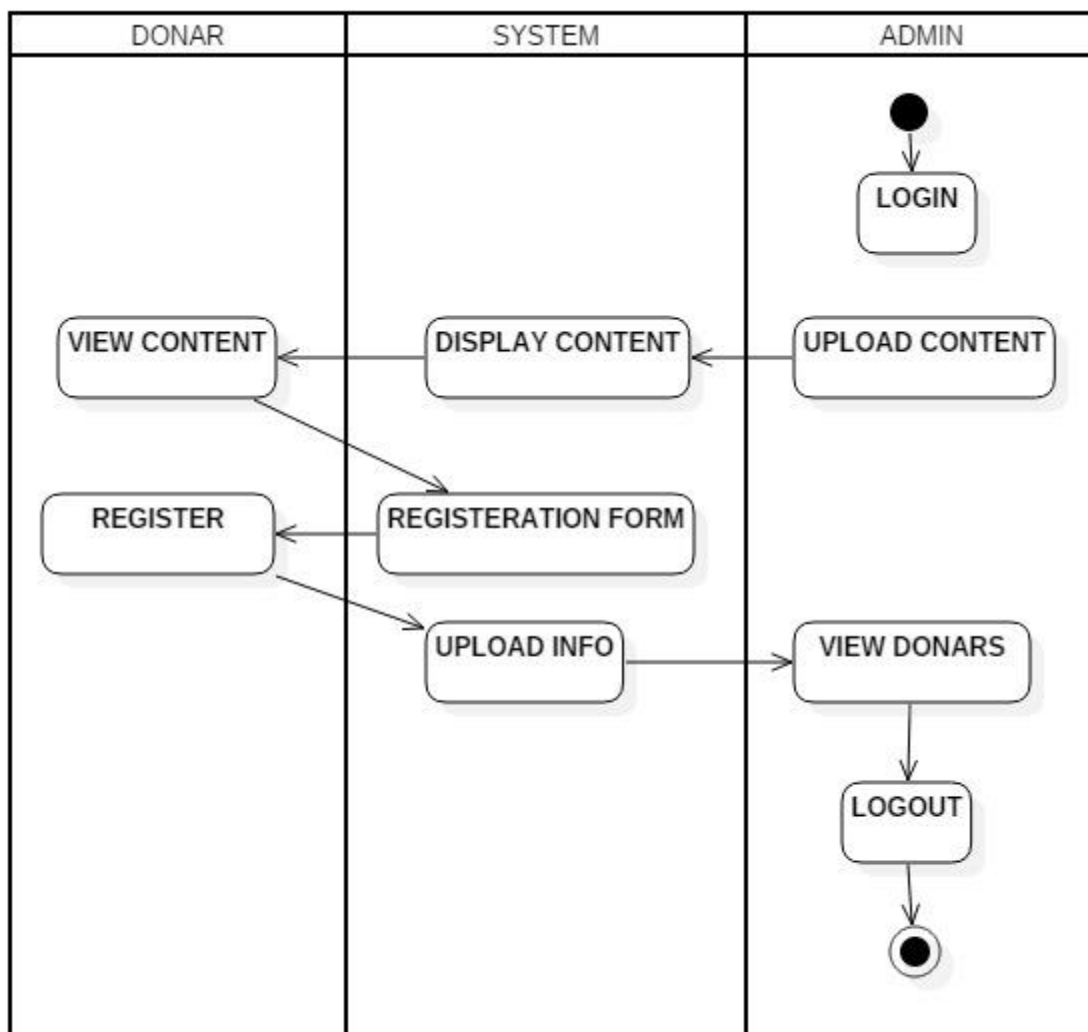
User interact with system:
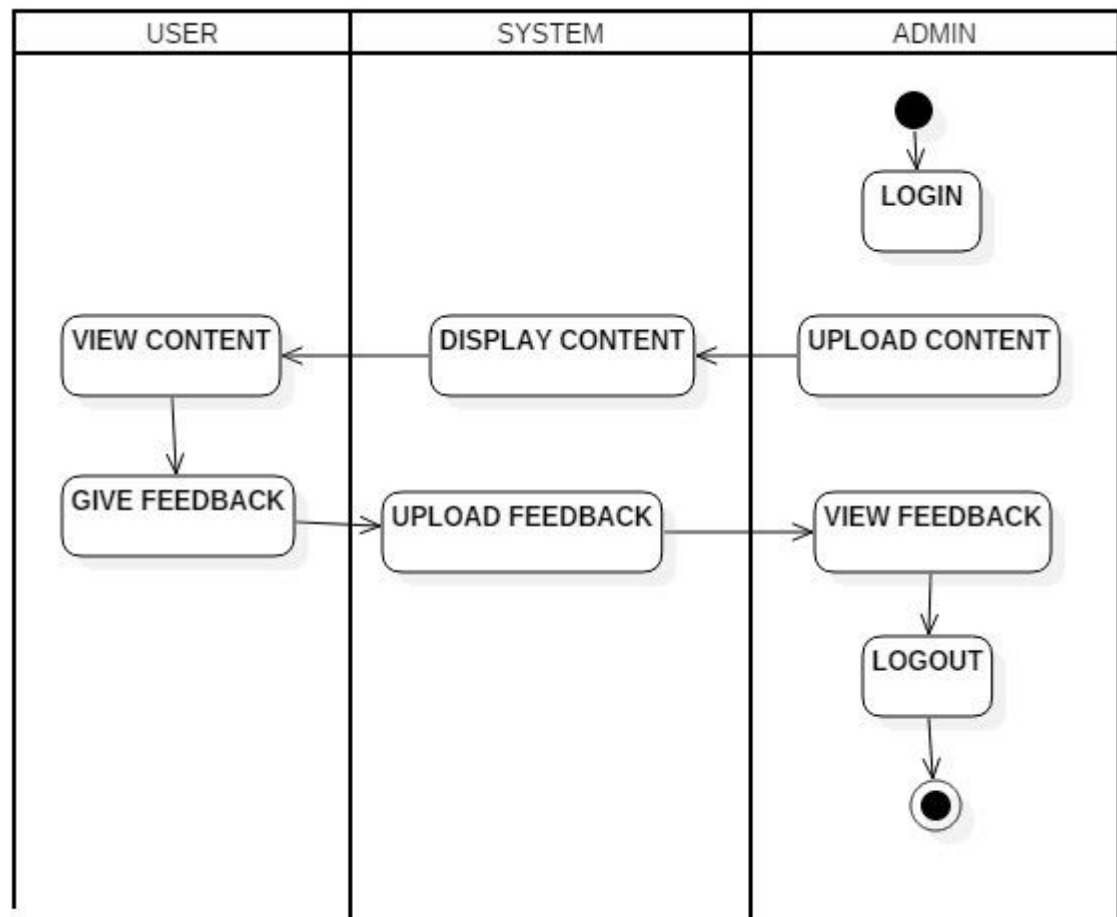
Alumni interact with system:
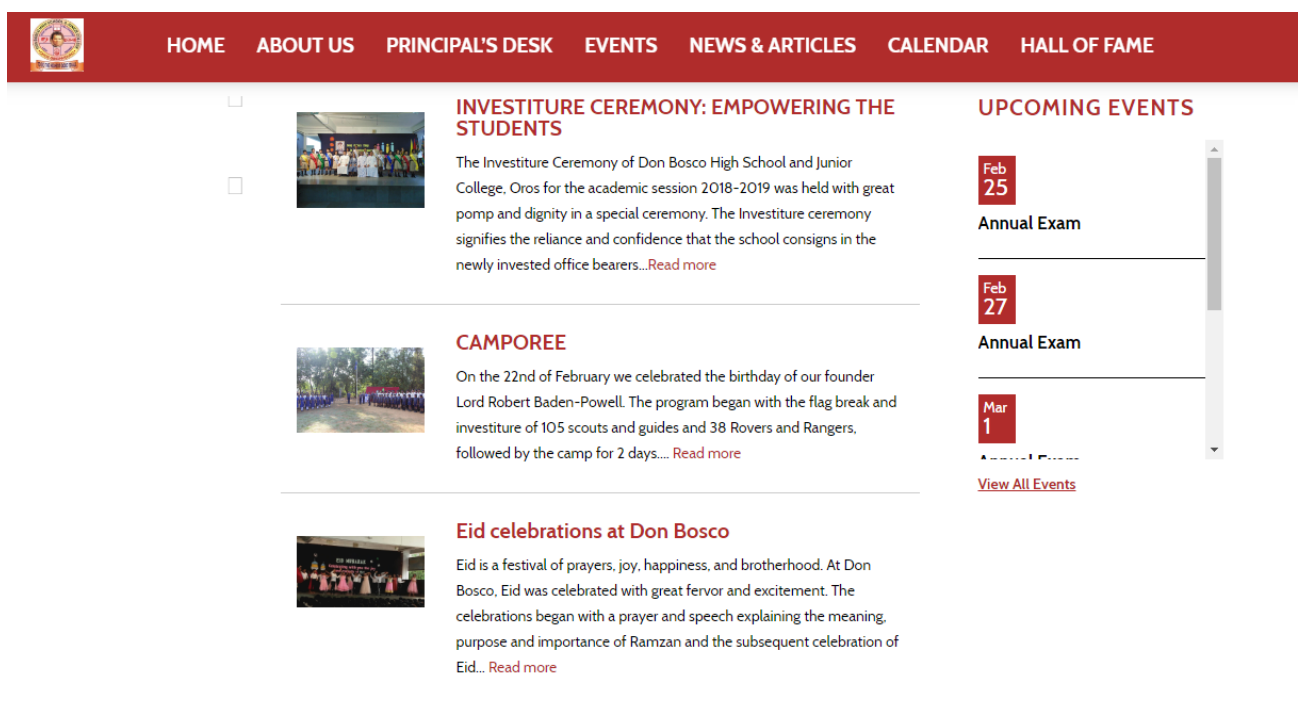
Donar interact with system:

DONAR	SYSTEM	ADMIN
		●
		LOGIN
VIEW CONTENT	DISPLAY CONTENT	UPLOAD CONTENT
REGISTER	REGISTERATION FORM	
	UPLOAD INFO	VIEW DONARS
		LOGOUT
		◉

4. User interface design:

Home page

The school reopens for the academic year 2019-2020 on 9th June 2019. Wishing all the students a happy vacation. Run Jump Play bu

Events Page

INVESTITURE CEREMONY: EMPOWERING THE STUDENTS

The Investiture Ceremony of Don Bosco High School and Junior College, Oros for the academic session 2018-2019 was held with great pomp and dignity in a special ceremony. The Investiture ceremony signifies the reliance and confidence that the school consigns in the newly invested office bearers...Read more

CAMPOREE

On the 22nd of February we celebrated the birthday of our founder Lord Robert Baden-Powell. The program began with the flag break and investiture of 105 scouts and guides and 38 Rovers and Rangers, followed by the camp for 2 days.... Read more

Eid celebrations at Don Bosco

Eid is a festival of prayers, joy, happiness, and brotherhood. At Don Bosco, Eid was celebrated with great fervor and excitement. The celebrations began with a prayer and speech explaining the meaning, purpose and importance of Ramzan and the subsequent celebration of Eid... Read more

UPCOMING EVENTS

Feb 25
Annual Exam

Feb 27
Annual Exam

Mar 1

View All Events

Academic Calender

Search …

<< January ▾ 2019 ▾ >>

Events on Thursday, 31 Jan 2019

- don bosco fesst

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Alumni Registeration

Alumni Registeration

NAME

First Name

LAST NAME

Surname

ADDRESS

Address

PASSED OUT

⦿ SCHOOL

○ JUNIOR COLLEGE

○ BOTH

YEAR OF PASSING OUT

1996 ▾

Address

PASSED OUT

⦿ SCHOOL

○ JUNIOR COLLEGE

○ BOTH

YEAR OF PASSING OUT

1996 ▾

NAME OF JOB/BUSINESS

Enter name of Company

DESIGNATION

Enter your designation

Submit   Reset

Admin Panel Login

Please Sign In

Username

Password

☐ Remember Me

Login

Develop By Bhushan Salunke

Admin Panel

Admin Panel

- 🎲 Dashboard
- 📷 Album   ‹
- 🖼️ Gallery   ‹
- 🎲 File Upload
- 🎲 Alumni

Dashboard

2
Albums

View Details ➡

18
Gallery Images

View Details ➡

Notice Uploading

Admin Panel

- **Dashboard**
- **Album** ‹
- **Gallery** ‹
- **File Upload**
- **Alumni**

Dashboard

Upload Files

Select File

[Choose File] No file chosen

[Submit]

Notice Downloading

HOME > NOTICES

Search …

10 ▾ RECORDS PER PAGE		SEARCH:

Files	Action
Other School Admission.pdf	[Download]
Pre-Primary Admission 2019-20.pdf	[Download]
Results.pdf	[Download]

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5. Security Issues:

1. Weak Passwords:-

Too often users have weak passwords, share them with colleagues, never change them and sometimes they even write them down or tape them to their PCs.

2. Viruses:-

Most organizations understand they need to have anti-virus software installed. However, the threat from viruses is constantly changing, and so it is vital that you regularly update the software with the latest versions.

3. Network Security Threats:-

It's best to use a firewall to mitigate against external threats. In simple terms, a firewall is a protective barrier between the intranet and the internet.

4. Access Control:-

Access to information can be secured on the intranet via a series of file permissions and page permissions. These permissions can be set by a job title, team function, geographic location – whatever is appropriate for that data.

5. Encryption:-

Encryption is the process of converting data to an unrecognizable or "encrypted" form. It is commonly used to protect sensitive information so that only authorized parties can view it.

6. Remote Access:-

Increasingly intranets are being accessed outside of the standard office environment by employees either working on the road or working from home. Often workers are doing so using their own personal smartphones, devices or tablets. Special steps are required to ensure security is maintained with remote access.

6. Test Cases Design

Test case is an object for execution for other modules in the architecture does not represent any interaction by itself. A test case is a set of sequential steps to execute a test operating on a set of predefined inputs to produce certain expected outputs.

There are two types of test cases:-manual and automated.

A manual test case is executed manually while an automated test case is executed using automation.

In system testing, test data should cover the possible values of each parameter based on the requirements. Since testing every value is impractical, a few values should be chosen from each equivalence class. An equivalence class is a set of values that should all be treated the same.

Ideally, test cases that check error conditions are written separately from the functional test cases and should have steps to verify the error messages and logs. Realistically, if functional test cases are not yet written, it is ok for testers to check for error conditions when performing normal functional test cases. It should be clear which test data, if any is expected to trigger errors.

➢ Test Cases Design :-

- **Login for admin**

Sr. No.	Test Case Id	Test Case Description	Step	Expected Result	Actual Result
1	Admin Username	To verify the username on login page	Enter the login name and password and click submit button	Redirect to admin panel	Redirect to admin panel
2	Admin Username	To verify the username on login page	Enter the login incorrent name and password and click submit button	Your username or password is incorrect	Your username or password is incorrect
3	Admin Password	To verify that password on login page	Enter password and login name click submit button	Redirect to admin panel	Redirect to admin panel
4	Admin Password	To verify that password on login page	Enter incorrect password and login name click submit button	Your username or password is incorrect	Your username or password is incorrect
5	Login	To test response after login	Enter valid username and password	Redirect to admin panel	Redirect to admin panel
6	Logout	To test response after logout	Click on logout	Redirect to admin panel	Redirect to admin panel

- **Registeration Form:-**

Sr. No.	Test Case Id	Test Case Description	Step	Expected Result	Actual Result
1	Name	To validate name	Enter name less than three character and fill other detailsclick submit button	Invalid name	Invalid name
2	Name	To validate name	Enter name greater than three character and fill other detailsclick submit button	Registerd Succesfully	Registerd Successfully
3	Last Name	To validate last name	Enter name less than three character and fill other detailsclick submit button	Invalid name	Invalid name
4	Last Name	To validate last name	Enter name greater than three character and fill other detailsclick submit button	Registerd Succesfully	Registerd Successfully
5	Email	To validate email	Enter email without .	Invalid Email	Invalid Email
6	Email	To validate email	Enter email without @	Invalid Email	Invalid Email
7	Number	To validate number	Enter number less than 10 digit	Incorrect Number	Incorrect Number
8	Number	To validate number	Enter number greater than 10 digit	Incorrect Number	Incorrect Number
9	Number	To validate number	Enter number less than 10 digit	Registered Succesfully	Registerd Successfully

Chapter 5

IMPLEMENTATION AND TESTING

Implementation and Testing

1] Implementation Approaches :-

       For implementing desired design I can consider some important points. That
are as follows :

1] What do I want to make ?

2] Consider about selected technologies

3] How will I implement it ?

4] Consider Time limit

       Firstly, I am studying my design and understand actual task related to implementation. I am drawing basic structure for implement it. Also consider all functionalities that are designed in previous chapter. In second chapter, I am mentioning selection of various technology. Before starting actual implementation I am understanding all the components, concepts related to that technology. After these all things, I am deciding a implementation way which is helpful for my successful implementation of project.

       While implementing all decided functionalities and requirements I am following my time schedule that are roughly created by me.

2] Coding Details and Code Efficiency:-

       For coding, I am select HTML, PHP and Bootstrap technology. My code contains exact   line of source code which are required for obtaining functionality.

In my coding section, I am not adding much more unnecessary line for increase length of code. Code which are repeatedly used in various pages are reduced by including a page in all required pages.

Source code of Database Connection :-

```php
<?php
$con = mysql_connect("localhost","root","");
if (!$con)
{
 die();
}
mysql_select_db("donbosco",$con);
?>
```

Source code for Admin Login :-

```php
<?php
session_start();
?>
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Dotcode-Gallery | Admin Login</title>
    <!-- Bootstrap Core CSS -->
    <link href="css/bootstrap.min.css" rel="stylesheet">
    <!-- MetisMenu CSS -->
    <link href="css/plugins/metisMenu/metisMenu.min.css" rel="stylesheet">
    <!-- Custom CSS -->
    <link href="css/sb-admin-2.css" rel="stylesheet">
    <!-- Custom Fonts -->
    <link href="font-awesome-4.1.0/css/font-awesome.min.css" rel="stylesheet" type="text/css">
    <!-- HTML5 Shim and Respond.js IE8 support of HTML5 elements and media queries -->
    <!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
    <!--[if lt IE 9]>
        <script src="https://oss.maxcdn.com/libs/html5shiv/3.7.0/html5shiv.js"></script>
        <script src="https://oss.maxcdn.com/libs/respond.js/1.4.2/respond.min.js"></script>
    <![endif]-->
</head>
<body>
    <div class="container">
        <div class="row">
            <div class="col-md-4 col-md-offset-4">
                <div class="login-panel panel panel-default">
                    <div class="panel-heading">
                        <h3 class="panel-title">Please Sign In</h3>
                    </div>
                    <div class="panel-body">
```

```php
            <?php
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
$myuser = $_POST['username'];
$mypass= $_POST['password'];
   if ($myuser == '' || $mypass == '') {
      echo " <div class='alert alert-danger'>Enter username or password</div>";
}
else
{
include "connect.php";
$result  =  mysql_query("select  *  from  tbl_login  where  username  =  '$myuser'  and
password='$mypass'");
if (mysql_num_rows($result)>0)
{
  $row = mysql_fetch_array($result);
  if ($row[3]=='admin')
   $_SESSION['uname']=$myuser;
   echo "<script>location.href='home.php'</script>";
}
else
{
 echo " <div class='alert alert-danger'>Your username or password is incorrect</div>";
 echo "";
}
}
}
?>
             <form role="form" action="<?= $_SERVER['PHP_SELF'] ?>" method="post">
                <fieldset>
                   <div class="form-group">
                      <input   class="form-control"   placeholder="Username"   name="username"
type="username" autofocus>
                   </div>
                   <div class="form-group">
                      <input   class="form-control"   placeholder="Password"   name="password"
type="password" value="">
```

```html
                </div>
                <div class="checkbox">
                  <label>
                    <input     name="remember"     type="checkbox"     value="Remember
Me">Remember Me
                  </label>
                </div>
                <!-- Change this to a button or input when using this as a form -->
                <input type="submit" class="btn btn-lg btn-success btn-block" name="login"
value="Login">
              </fieldset>
            </form>
          </div>
        </div>
      </div>
  </div>
  <div align="center">
Develop By Bhushan Salunke</a></div>
  <!-- jQuery Version 1.11.0 -->
  <script src="js/jquery-1.11.0.js"></script>
  <!-- Bootstrap Core JavaScript -->
  <script src="js/bootstrap.min.js"></script>
  <!-- Metis Menu Plugin JavaScript -->
  <script src="js/plugins/metisMenu/metisMenu.min.js"></script>
  <!-- Custom Theme JavaScript -->
  <script src="js/sb-admin-2.js"></script>
</body>
</html>
```

Source code of Database Connection :-

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

```
<title>Untitled Document</title>
</head>
<body>
<?php
session_start();
unset($_SESSION['uname']);
session_destroy();
header('Location: login.php');
?>
</body>
</html>
```

Source code to add Gallery:-

```
<?php session_start();
if(isset($_SESSION['uname']))
{
?>
<?php include "header1.php"; ?>
<?php include "menu/amenu1.php"; ?>
<div id="page-wrapper">
        <div class="row">
           <div class="col-lg-12">
              <h1 class="page-header">Add Album</h1>
           </div>
           <!-- /.col-lg-12 -->
        </div>
        <!-- /.row -->
        <script type="application/javascript">
function img_up(){var fup = document.getElementById('upload');var fileName = fup.value;var
ext = fileName.substring(fileName.lastIndexOf('.') + 1);if(ext == "JPEG" || ext == "jpeg" || ext ==
"jpg" || ext == "JPG"){return true;}else{alert("only jpeg format supported!");fup.focus();return
false;}}</script>
<?php
if(isset($_POST['submit']))
{
$aname = $_POST['aname'];
$adesc = $_POST['adesc'];
$adate = date('Y-m-d H:i:s');
$status='process';
$rd=rand();
$uploadedfile = $_FILES['upload']['tmp_name'];
$src = imagecreatefromjpeg($uploadedfile);
list($width,$height)=getimagesize($uploadedfile);
```

```php
$newwidth=290;
$newheight=($height/$width)*300;
$tmp=imagecreatetruecolor($newwidth,$newheight);
imagecopyresampled($tmp,$src,0,0,0,0,$newwidth,$newheight,$width,$height);
$filename = "acatch/".$rd. $_FILES['upload']['name'];
imagejpeg($tmp,$filename,100);
imagedestroy($src);
imagedestroy($tmp);
$photo=$rd.$_FILES['upload']['name'];
move_uploaded_file($_FILES["upload"]["tmp_name"],"aupload/".$rd.$_FILES["upload"]["name"]);
if (empty($aname))
{
 echo " <div class='alert alert-danger'><strong>ERROR</strong> - Empty fields are not allowed
!</div>";
 }
else
{
include "connect.php";
$query="INSERT          INTO          tbl_album(name,adesc,image,date,status)          VALUES
('$aname','$adesc','$photo','$adate','$status')";
if(mysql_query($query))
   {
echo " <div class='alert alert-success'>Your New Album Is Successfully Added. <a
href='viewallalbums.php'>View          albums</a>          |<a          href='addevent.php'>   Add   new
album</a></div>";
   }
   else
   {
     echo "error";
     print mysql_error();
   }
// echo "<script>location.href='addevent.php </script>";
   }
}
?>
        <div class="row">
          <div class="col-lg-12">
            <div class="panel panel-default">
              <div class="panel-heading">
                Fill This Form To Add Album (Only upload jpg files only)
              </div>
              <div class="panel-body">
                <div class="row">
                  <div class="col-lg-6">
```

```html
                      <form      action="#"      method="post"      enctype="multipart/form-data"
name="upload">
                          <div class="form-group">
                            <label>Album Name or Title</label>
                            <input      class="form-control"      placeholder="Enter      Title"
name="aname">
                              <p class="help-block">Example "Sunset pics"</p>
                          </div>
                          <div class="form-group">
                            <label>Event Description</label>
                            <p class="help-block" style="font-weight:bold">Max 1000 Character
Allow </p>
                            <textarea      class="form-control"      rows="3"      placeholder="Enter
Description" name="adesc" maxlength="1000"></textarea>
                          </div>
                          <div class="form-group">
                            <label>Album Image</label>
                            <input type="file" name="upload"  id="upload" />
                            <p  class="help-block">Example "Recomended  Image  Size  in  pixel
400 X 300"</p>
                          </div>
                          <button type="submit" class="btn btn-primary" name="submit">Submit
Button</button>
                          <button type="reset" class="btn btn-default">Reset Button</button>
                        </form>
                     </div>
                     <!-- /.col-lg-6 (nested) -->
                     </div>
                     <!-- /.col-lg-6 (nested) -->
                  </div>
                  <!-- /.row (nested) -->
               </div>
               <!-- /.panel-body -->
            </div>
            <!-- /.panel -->
         </div>
         <!-- /.col-lg-12 -->
      </div>
      <!-- /.row -->
   </div>
   <!-- /#page-wrapper -->
</div>
<!-- /#wrapper -->
<!-- jQuery Version 1.11.0 -->
<script src="js/jquery-1.11.0.js"></script>
<!-- Bootstrap Core JavaScript -->
```

```
        <script src="js/bootstrap.min.js"></script>
        <!-- Metis Menu Plugin JavaScript -->
        <script src="js/plugins/metisMenu/metisMenu.min.js"></script>
        <!-- Custom Theme JavaScript -->
        <script src="js/sb-admin-2.js"></script>
<?php
}
else
{
header("location:login.php");
}
?>
</body>
</html>
```

Source code to add Album:-

```
<?php session_start();
if(isset($_SESSION['uname']))
{
?>
<?php include "header1.php"; ?>
<?php include "menu/gmenu.php"; ?>
<div id="page-wrapper">
        <div class="row">
            <div class="col-lg-12">
                <h1 class="page-header">Add Gallery</h1>
            </div>
            <!-- /.col-lg-12 -->
        </div>
        <!-- /.row -->
        <?php
    if(isset($_POST['submit']))
{
$ename = $_POST['gname'];
}
        ?>
        <div class="row">
            <div class="col-lg-12">
                <div class="panel panel-default">
                    <div class="panel-heading">
                        Fill This Form To Add Gallery
                    </div>
                    <div class="panel-body">
                        <div class="row">
                            <div class="col-lg-6">
```

```
                            <form  action="glink.php"  method="post"  enctype="multipart/form-data"
name="upload">
                            <div class="form-group">
                                <label>Select Event Name or Title</label>
                    <?php
        include"connect.php";
        $sql = "select * from tbl_album where status='process'";
$rs_result = mysql_query ($sql,$con);
echo "<select class='form-control' name='gname'>";
while ($row = mysql_fetch_assoc($rs_result)) {
echo "<option value=$row[albumid]>$row[name]</option>";
                            };
                            echo "</select>";
                            ?>
                            </div>
                            <button  type="submit"  class="btn  btn-primary"  name="submit">Go
Next</button>
                        </form>
                    </div>
                    <!-- /.col-lg-6 (nested) -->
                    </div>
                    <!-- /.col-lg-6 (nested) -->
                </div>
                <!-- /.row (nested) -->
            </div>
            <!-- /.panel-body -->
        </div>
        <!-- /.panel -->
      </div>
      <!-- /.col-lg-12 -->
    </div>
    <!-- /.row -->
  </div>
  <!-- /#page-wrapper -->
</div>
<!-- /#wrapper -->
<!-- jQuery Version 1.11.0 -->
<script src="js/jquery-1.11.0.js"></script>
<!-- Bootstrap Core JavaScript -->
<script src="js/bootstrap.min.js"></script>
<!-- Metis Menu Plugin JavaScript -->
<script src="js/plugins/metisMenu/metisMenu.min.js"></script>
<!-- Custom Theme JavaScript -->
<script src="js/sb-admin-2.js"></script>
<?php
}
```

```php
else
{
header("location:login.php");
}
?>
</body>
</html>
```

Source Code to add Notice:-
```php
<!DOCTYPE html>
<html>
<head>
      <title></title>
</head>
<body>
<?php session_start();
if(isset($_SESSION['uname']))
{
?>
<?php include "header.php"; ?>
    <!-- Page Content -->
    <div id="page-wrapper">
      <div class="row">
        <div class="col-lg-12">
          <h1 class="page-header">Dashboard</h1>
        </div>
        <!-- /.col-lg-12 -->
      </div>
      <!-- /.row -->
  <!-- /#wrapper -->
  <!-- jQuery Version 1.11.0 -->
  <script src="js/jquery-1.11.0.js"></script>
  <!-- Bootstrap Core JavaScript -->
  <script src="js/bootstrap.min.js"></script>
  <!-- Metis Menu Plugin JavaScript -->
  <script src="js/plugins/metisMenu/metisMenu.min.js"></script>
  <!-- Custom Theme JavaScript -->
  <script src="js/sb-admin-2.js"></script>
<?php
}
else
{
header("location:login.php");
}
?>
<?php
```

```php
$conn=new PDO('mysql:host=localhost; dbname=demo', 'root', '') or die(mysql_error());
if(isset($_POST['submit'])!=""){
 $name=$_FILES['photo']['name'];
 $size=$_FILES['photo']['size'];
 $type=$_FILES['photo']['type'];
 $temp=$_FILES['photo']['tmp_name'];
 $caption1=$_POST['caption'];
 $link=$_POST['link'];
 move_uploaded_file($temp,"../../../upload/".$name);
$query=$conn->query("insert into upload(name)values('$name')");
if($query){
header("location:fileupload.php");
}
else{
die(mysql_error());
}
}
?>
<html>
<head>
<title>Upload Files</title>
            <link href="css/bootstrap.css" rel="stylesheet" type="text/css" media="screen">
     <link rel="stylesheet" type="text/css" href="css/DT_bootstrap.css">
</head>
     <script src="js/jquery.js" type="text/javascript"></script>
     <script src="js/bootstrap.js" type="text/javascript"></script>
     <script         type="text/javascript"         charset="utf-8"         language="javascript"
src="js/jquery.dataTables.js"></script>
     <script         type="text/javascript"         charset="utf-8"         language="javascript"
src="js/DT_bootstrap.js"></script>
<style>
</style>
        <div class="row-fluid">
          <div class="span12">
            <div class="container">
            <br />
            <h1><p>Upload  Files</p></h1>
            <br />
            <br />
                 <form        enctype="multipart/form-data"        action=""        name="form"
method="post">
                        Select File
                             <input type="file" name="photo" id="photo" /></td>
                             <input     type="submit"     name="submit"     id="submit"
value="Submit" />
                 </form>
```

```
                <br />
                <br />
        </div>
  </div>
  </div>
  </body>
  </html>
```

Source code to Download Notice :-

```php
<?php
function output_file($file, $name, $mime_type='')
{
if(!is_readable($file)) die('File not found!');

$size = filesize($file);
$name = rawurldecode($name);
$known_mime_types=array(
"pdf" => "application/pdf",
"txt" => "text/plain",
"html" => "text/html",
"htm" => "text/html",
"exe" => "application/octet-stream",
"zip" => "application/zip",
"doc" => "application/msword",
"xls" => "application/vnd.ms-excel",
"ppt" => "application/vnd.ms-powerpoint",
"gif" => "image/gif",
"png" => "image/png",
"jpeg"=> "image/jpg",
"jpg" => "image/jpg",
"php" => "text/plain"
);
if($mime_type==''){
$file_extension = strtolower(substr(strrchr($file,"."),1));
if(array_key_exists($file_extension, $known_mime_types)){
$mime_type=$known_mime_types[$file_extension];
} else {
```

```php
$mime_type="application/force-download";
};
};


@ob_end_clean();



if(ini_get('zlib.output_compression'))
ini_set('zlib.output_compression', 'Off');
header('Content-Type: ' . $mime_type);
header('Content-Disposition: attachment; filename="'.$name.'"');
header("Content-Transfer-Encoding: binary");
header('Accept-Ranges: bytes');
header("Cache-control: private");
header('Pragma: private');
header("Expires: Mon, 26 Jul 1997 05:00:00 GMT");
if(isset($_SERVER['HTTP_RANGE']))
{
list($a, $range) = explode("=",$_SERVER['HTTP_RANGE'],2);
list($range) = explode(",",$range,2);
list($range, $range_end) = explode("-", $range);
$range=intval($range);
if(!$range_end) {
$range_end=$size-1;
} else {
$range_end=intval($range_end);
}
$new_length = $range_end-$range+1;
header("HTTP/1.1 206 Partial Content");
header("Content-Length: $new_length");
header("Content-Range: bytes $range-$range_end/$size");
} else {
$new_length=$size;
header("Content-Length: ".$size);
}
$chunksize = 1*(1024*1024);
```

```php
$bytes_send = 0;
if ($file = fopen($file, 'r'))
{
if(isset($_SERVER['HTTP_RANGE']))
fseek($file, $range);

while(!feof($file) &&
(!connection_aborted()) &&
($bytes_send<$new_length)
)
{
$buffer = fread($file, $chunksize);
print($buffer);
flush();
$bytes_send += strlen($buffer);
}
fclose($file);
} else

die('Error - cannot open file.');
die();
}
set_time_limit(0);
$file_path='../upload/'.$_REQUEST['filename'];
output_file($file_path, ''.$_REQUEST['filename'].'', 'text/plain');
?>
```

Source code to view Calender:-

```php
<?php
/*
 * Function requested by Ajax
 */
if(isset($_POST['func']) && !empty($_POST['func'])){
    switch($_POST['func']){
        case 'getCalender':
            getCalender($_POST['year'],$_POST['month']);
```

```php
        break;
    case 'getEvents':
        getEvents($_POST['date']);
        break;
    default:
        break;
    }
}

/*
 * Get calendar full HTML
 */
function getCalender($year = '',$month = '')
{
    $dateYear = ($year != '')?$year:date("Y");
    $dateMonth = ($month != '')?$month:date("m");
    $date = $dateYear.'-'.$dateMonth.'-01';
    $currentMonthFirstDay = date("N",strtotime($date));
    $totalDaysOfMonth = cal_days_in_month(CAL_GREGORIAN,$dateMonth,$dateYear);
    $totalDaysOfMonthDisplay               =               ($currentMonthFirstDay              ==
7)?($totalDaysOfMonth):($totalDaysOfMonth + $currentMonthFirstDay);
    $boxDisplay = ($totalDaysOfMonthDisplay <= 35)?35:42;
?>
    <div id="calender_section">
        <h2>
            <a      href="javascript:void(0);"      onclick="getCalendar('calendar_div','<?php      echo
date("Y",strtotime($date.' - 1 Month')); ?>','<?php echo date("m",strtotime($date.' - 1 Month'));
?>');">&lt;&lt;</a>
            <select    name="month_dropdown"    class="month_dropdown    dropdown"><?php    echo
getAllMonths($dateMonth); ?></select>
            <select    name="year_dropdown"    class="year_dropdown    dropdown"><?php    echo
getYearList($dateYear); ?></select>
            <a      href="javascript:void(0);"      onclick="getCalendar('calendar_div','<?php      echo
date("Y",strtotime($date.' + 1 Month')); ?>','<?php echo date("m",strtotime($date.' + 1 Month'));
?>');">&gt;&gt;</a>
        </h2>
```

```php
<div id="event_list" class="none"></div>
<div id="calender_section_top">
  <ul>
    <li>Sun</li>
    <li>Mon</li>
    <li>Tue</li>
    <li>Wed</li>
    <li>Thu</li>
    <li>Fri</li>
    <li>Sat</li>
  </ul>
</div>
<div id="calender_section_bot">
  <ul>
  <?php
    $dayCount = 1;
    for($cb=1;$cb<=$boxDisplay;$cb++){
      if(($cb >= $currentMonthFirstDay+1 || $currentMonthFirstDay == 7) && $cb <= ($totalDaysOfMonthDisplay)){
          //Current date
          $currentDate = $dateYear.'-'.$dateMonth.'-'.$dayCount;
          $eventNum = 0;
          //Include db configuration file
          include 'dbConfig.php';
          //Get number of events based on the current date
          $result = $db->query("SELECT title FROM events WHERE date = '".$currentDate."' AND status = 1");
          $eventNum = $result->num_rows;
          //Define date cell color
          if(strtotime($currentDate) == strtotime(date("Y-m-d"))){
             echo '<li date="'.$currentDate.'" class="grey date_cell">';
          }elseif($eventNum > 0){
             echo '<li date="'.$currentDate.'" class="light_sky date_cell">';
          }else{
             echo '<li date="'.$currentDate.'" class="date_cell">';
          }
```

```php
                //Date cell
                echo '<span>';
                echo $dayCount;
                echo '</span>';


                //Hover event popup
                echo '<div id="date_popup_'.$currentDate.'" class="date_popup_wrap none">';
                echo '<div class="date_window">';
                echo '<div class="popup_event">Events ('.$eventNum.')</div>';
                echo           ($eventNum           >           0)?'<a           href="javascript:;"
onclick="getEvents(\''.$currentDate.'\');">view events</a>':'';
                echo '</div></div>';


                echo '</li>';
                $dayCount++;
        ?>
        <?php }else{ ?>
            <li><span> </span></li>
        <?php } } ?>
        </ul>
    </div>
  </div>


  <script type="text/javascript">
    function getCalendar(target_div,year,month){
        $.ajax({
            type:'POST',
            url:'functions.php',
            data:'func=getCalender&year='+year+'&month='+month,
            success:function(html){
                $('#'+target_div).html(html);
            }
        });
    }


    function getEvents(date){
```

```javascript
      $.ajax({
        type:'POST',
        url:'functions.php',
        data:'func=getEvents&date='+date,
        success:function(html){
          $('#event_list').html(html);
          $('#event_list').slideDown('slow');
        }
      });
    }


    function addEvent(date){
      $.ajax({
        type:'POST',
        url:'functions.php',
        data:'func=addEvent&date='+date,
        success:function(html){
          $('#event_list').html(html);
          $('#event_list').slideDown('slow');
        }
      });
    }


    $(document).ready(function(){
      $('.date_cell').mouseenter(function(){
        date = $(this).attr('date');
        $(".date_popup_wrap").fadeOut();
        $("#date_popup_"+date).fadeIn();
      });
      $('.date_cell').mouseleave(function(){
        $(".date_popup_wrap").fadeOut();
      });
      $('.month_dropdown').on('change',function(){
        getCalendar('calendar_div',$('.year_dropdown').val(),$('.month_dropdown').val());
      });
      $('.year_dropdown').on('change',function(){
```

```php
          getCalendar('calendar_div',$('.year_dropdown').val(),$('.month_dropdown').val());
        });
        $(document).click(function(){
          $('#event_list').slideUp('slow');
        });
      });
    </script>
<?php
}

/*
 * Get months options list.
 */
function getAllMonths($selected = ''){
  $options = '';
  for($i=1;$i<=12;$i++)
  {
    $value = ($i < 10)?'0'.$i:$i;
    $selectedOpt = ($value == $selected)?'selected':'';
    $options .= '<option value="'.$value.'" '.$selectedOpt.' >'.date("F", mktime(0, 0, 0, $i+1, 0,
0)).'</option>';
  }
  return $options;
}

/*
 * Get years options list.
 */
function getYearList($selected = ''){
  $options = '';
  for($i=2015;$i<=2025;$i++)
  {
    $selectedOpt = ($i == $selected)?'selected':'';
    $options .= '<option value="'.$i.'" '.$selectedOpt.' >'.$i.'</option>';
  }
  return $options;
```

```php
}

/*
 * Get events by date
 */
function getEvents($date = ''){
    //Include db configuration file
    include 'dbConfig.php';
    $eventListHTML = '';
    $date = $date?$date:date("Y-m-d");
    //Get events based on the current date
    $result = $db->query("SELECT title FROM events WHERE date = '".$date."' AND status = 1");
    if($result->num_rows > 0){
        $eventListHTML = '<h2>Events on '.date("l, d M Y",strtotime($date)).'</h2>';
        $eventListHTML .= '<ul>';
        while($row = $result->fetch_assoc()){
            $eventListHTML .= '<li>'.$row['title'].'</li>';
        }
        $eventListHTML .= '</ul>';
    }
    echo $eventListHTML;
}
?>
```

2] Testing Approach

Unit Testing

Unit Testing is a level of software testing where individual units/ components of a software are tested. The purpose is to validate that each unit of the software performs as designed. A unit is the smallest testable part of any software. It usually has one or a few inputs and usually a single output.

Integrated Testing

Integrated Testing is a level of software testing where individual units are combined and tested as a group. The purpose of this level of testing is to expose faults in the interaction between integrated units. Test drivers and test stubs are used to assist in Integration Testing.

3] Modifications and Improvements

The project can be improved on intranet in future. Project can be updated in near future as and when requirement for the same arises, as it is very flexible in terms of expansion. With the proposed web application of database Space Manager ready and fully functional the client is now able to manage and hence run the entire work in a much better, accurate and error free manner. The following are the future scope for the project.

- In future I will include more reports for attendance.
- In future strong security will be provided to system.
- In future I will include bar code reader based attendance system.
- The fix URL will be implemented in future.

Chapter 6

# RESULT AND DISCUSSION

1] Test Reports

➢ Test Cases Design :-

- **Login for admin**

Sr. No.	Test Case Id	Test Case Description	Step	Expected Result	Actual Result	Result
1	Admin Username	To verify the username on login page	Enter the login name and password and click submit button	Redirect to admin panel	Redirect to admin panel	Pass
2	Admin Username	To verify the username on login page	Enter the login incorrent name and password and click submit button	Your username or password is incorrect	Your username or password is incorrect	Pass
3	Admin Password	To verify that password on login page	Enter password and login name click submit button	Redirect to admin panel	Redirect to admin panel	Pass
4	Admin Password	To verify that password on login page	Enter incorrect password and login name click submit button	Your username or password is incorrect	Your username or password is incorrect	Pass
5	Login	To test response after login	Enter valid username and password	Redirect to admin panel	Redirect to admin panel	Pass
6	Logout	To test response after logout	Click on logout	Redirect to admin panel	Redirect to admin panel	Pass

- **Registeration Form:-**

Sr. No.	Test Case Id	Test Case Description	Step	Expected Result	Actual Result	Result
1	Name	To validate name	Enter name less than three character and fill other detailsclick submit button	Invalid name	Invalid name	Pass
2	Name	To validate name	Enter name greater than three character and fill other detailsclick submit button	Registerd Succesfully	Registerd Successfully	Pass
3	Last Name	To validate last name	Enter name less than three character and fill other detailsclick submit button	Invalid name	Invalid name	Pass
4	Last Name	To validate last name	Enter name greater than three character and fill other detailsclick submit button	Registerd Succesfully	Registerd Successfully	Pass
5	Email	To validate email	Enter email without .	Invalid Email	Invalid Email	Pass
6	Email	To validate email	Enter email without @	Invalid Email	Invalid Email	Pass
7	Number	To validate number	Enter number less than 10 digit	Incorrect Number	Incorrect Number	Pass
8	Number	To validate number	Enter number greater than 10 digit	Incorrect Number	Incorrect Number	Pass
9	Number	To validate number	Enter number less than 10 digit	Registered Succesfully	Registerd Successfully	Pass

2] User Documentation
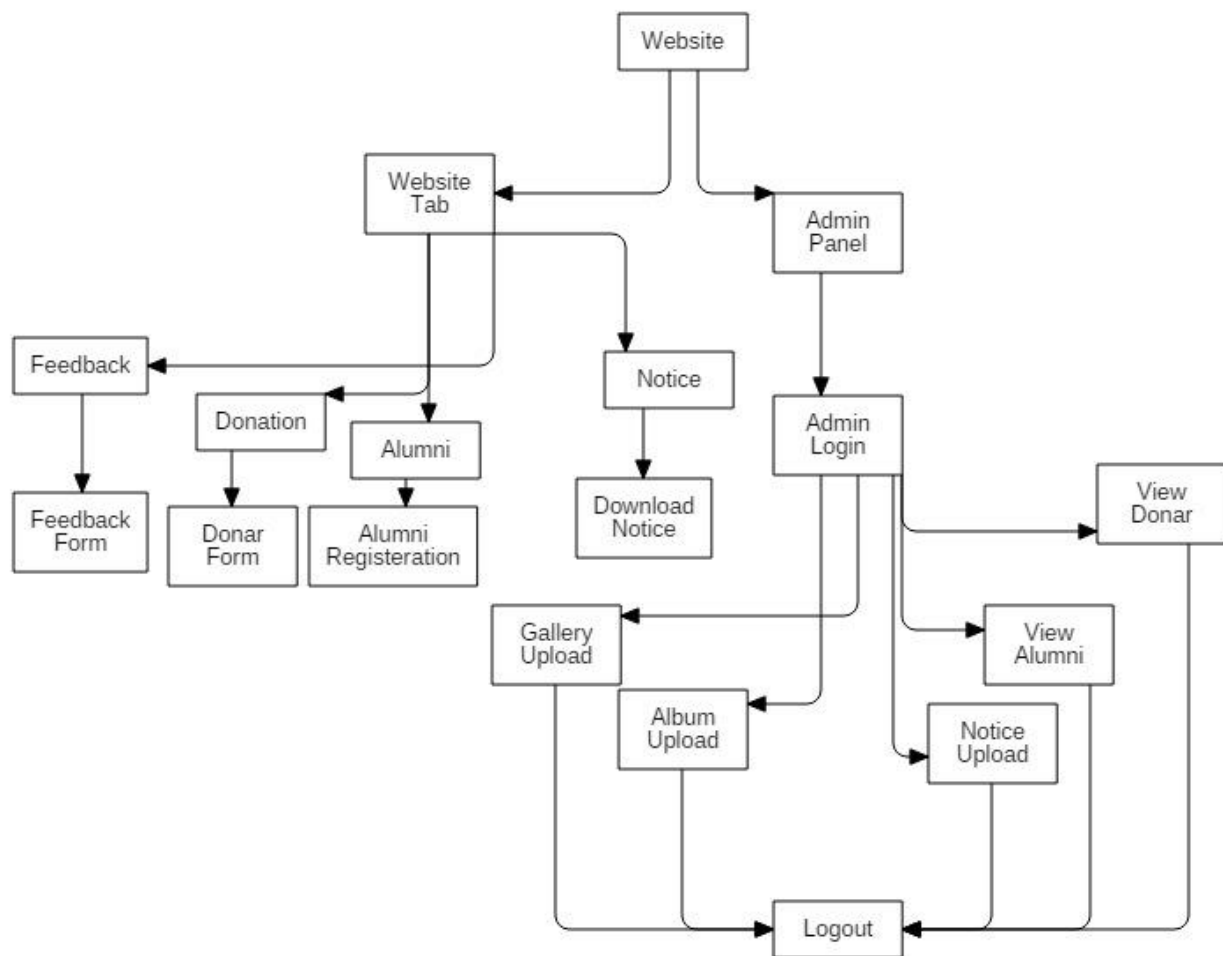
Chapter 7

CONCLUSION

CONCLUSION

Hereby I conclude that I have successfully designed all aspects of system including requirement gathering, analysis, schema design, User Interface Design and Test case design also.

I have completed coding and development process. As well as I performed testing process on developed system.

According to WBS chart first four chapters are completed in fifth semester and remaining chapters are completed in this semester according to guidelines provided by university of Mumbai.

I hope my project will satisfy the requirement of the client.

FUTURE SCOPE OF PROJECT

The project has a very vast scope in future. The project can be implemented with more modules. Project can be updated in near future as and when requirement for the same arises, as it is very flexible in terms of expansion. With the proposed website of database content management ready and fully functional the client is now able to manage and hence run the entire work in a much better, accurate and error free manner. The following are the future scope for the project.

- In future I will include more reports in website
- In future strong security will be provided to system.
- In future I will include login for teachers.
- In future I will include login for parents.
- In future I will provide elearning material.
- In future I will provide provision to upload videos.

Chapter 8

REFERENCES AND BIBLIOGRAPHY

REFERENCES AND BIBLIOGRAPHY

I have used various online and offline resources to gather all information required to develop the system, some of those are following,

Offline Resources:

- The Joy of PHP Programming: A Beginner's Guide – by Alan Forbes.
- PHP & MySQL Novice to Ninja – by Kevin Yank.
- Head First PHP & MySQL – by Lynn Beighley & Michael Morrison.
- Learning PHP, MySQL, JavaScript, and CSS: A Step-by-Step Guide to Creating Dynamic Websites – by Robin Nixon.
- Software Engineering by Sommerville, Pearson Education, 7th edition
- Software Engineering principles and practice by Waman S Jawadekar, the McGrawHill Companies

Online Resources:-

- www.w3schools.com
- www.codeproject.com
- www.wikipedia.org
- www.tutorialspoint.com
- http://softwaretestingfundamentals.com/unit-testing/
- http://softwaretestingfundamentals.com/integration-testing/
- https://www.w3resource.com/mysql/creating-table-advance/constraint.php