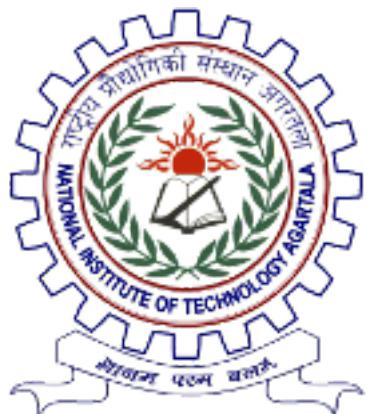


NITA ALUMNI PORTAL



Diwakar Prasad(13MCA007)

**COMPUTER SCIENCE & ENGINEERING DEPARTMENT
NATIONAL INSTITUTE OF TECHNOLOGY,AGARTALA**

**INDIA-799046
November, 2015**

NITA ALUMNI PORTAL

*Report submitted to
National Institute of Technology, Agartala
for the award of the degree
of
Master of Computer Application*

*by
Diwakar Prasad(13MCA007)*

*Under the Guidance of
Miss Purbani Kar
Assistant Professor, CSE Department, NIT Agartala, India*



**COMPUTER SCIENCE & ENGINEERING DEPARTMENT
NATIONAL INSTITUTE OF TECHNOLOGY AGARTALA
November, 2015**

Dedicated To

To my Project Supervisor Miss Purbani Kar, Assistant Professor, CSED, NIT Agartala for sharing her valuable knowledge, encouragement & showing confidence on me all the time. Each of the faculties of the department to contribute in my development as a professional and help me to achieve this goal.

To all those people who have somehow contributed to the creation of this project and who have supported me.

“You can’t teach people everything they need to know. The best you can do is position them where they can find what they need to know when they need to know it.”

-Seymour Papert (MIT Mathematician)

REPORT APPROVAL FOR MCA

This report entitled “*NITA ALUMNI PORTAL*”, by Diwakar Prasad(13MCA007), is approved for the award of *Master of Computer Application* in *Computer Science & Engineering*.

Miss Purbani Kar
(Project Supervisor)
Assistant Professor

Computer Science and Engineering Department
NIT, Agartala

Mr. Mrinal Kanti Deb Barma
(Head of the Department)
Assistant Professor

Computer Science and Engineering Department
NIT Agartala

Date:_____
Place:NIT, Agartala

DECLARATION

I declare that the work presented in this report proposal titled “NITA ALUMNI PORTAL”, submitted to the Computer Science and Engineering Department, National Institute of Technology, Agartala, for the award of the *Master of Computer Application* degree in *Computer Science & Engineering*, represents my ideas in my own words and where others’ ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in our submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

November, 2015
Agartala

Diwakar Prasad

CERTIFICATE

It is certified that the work contained in the report titled “*NITA ALUMNI PORTAL*”, by Di-wakar Prasad(13MCA007), has been carried out under my supervision and this work has not been submitted elsewhere for a degree.

Miss Purbani Kar
(Project Supervisor)
Assistant Professor

Computer Science and Engineering Department Computer Science and Engineering Department
NIT Agartala

Mr. Mrinal Kanti Deb Barma
(Head of the Department)
Assistant Professor

Acknowledgement

I would like to take this opportunity to express my deep sense of gratitude to all who helped me directly or indirectly during this thesis work.

Firstly, I would like to thank our supervisor, **Miss Purbani Kar**, for being a great mentor and the best adviser I could ever have. Her advise, encouragement and critics are source of innovative ideas, inspiration and causes behind the successful completion of this report. The confidence shown on me by her was the biggest source of inspiration for me. It has been a privilege working with her from last six months.

I am highly obliged to all the faculty members of Computer Science and Engineering Department for their support and encouragement. I also thank **Prof.(Dr.) Gopal Mugeraya**, Director, NIT Agartala and **Mr. Mrinal Kanti Deb Barma**, H.O.D, CSED for providing excellent computing and other facilities without which this work could not achieve its quality goal.

- Diwakar Prasad

Abstract

This project is aimed at developing a web application for alumni of the college, which is of importance to our college. The NITA ALUMNI Portal is a web based application that can be accessed all over the World. Anyone can access the web application to know about the Alumnis of the college. This web application keeps the record of those students who have passed out and want to be in touch with their college. This system can be used as an application for the Alumni Information to manage the college information as well as students information. This application also helps to manage events and send invitation about college events. The NITA Alumni Portal provides with the facility of reliving and rejoicing those old memories and moments. The portal also adds the relevant information about the celebrities and personalities visiting college on auspicious occasions for a function or particular events. Thus, this portal overall is symbolized in view to not only keep the track of old students who have passed out from the college but also make them known with the happenings and events occurring in the college.

Contents

Acknowledgement	viii
Abstract	ix
1 Introduction	1
1.1 Purpose	1
1.2 Motivation	2
1.3 Goal	2
2 Literature survey	3
2.1 Existing System	3
2.1.1 Limitations in Existing System:	3
2.2 Proposed System	4

2.2.1	Advantages over Existing System	4
3	Software Requirements	5
3.1	Software Requirements	5
3.1.1	Server Side Requirements	5
3.1.2	Client Side Requirements	6
3.2	Hardware Requirements	6
3.2.1	Server Side Requirements	6
3.2.2	Client Side Requirements	6
3.3	PHP	6
3.3.1	definition:	6
3.3.2	What is a PHP File?	7
3.4	HTML	7
3.5	CSS	7
3.6	Javascript	8
3.7	MySQL	8
3.8	wamp server	9
4	Design And Analysis	10
4.1	General Operations	10
4.1.1	Alumni/Students:	10
4.1.2	Admin:	11
4.1.3	Guest:	11

4.2	Use-case Diagram	11
4.2.1	Use-case Diagram for Admin/Event Manager:	12
4.2.2	Use-case Diagram for Alumni/Student:	12
4.2.3	Use-case Diagram for Guest:	13
4.3	Dtata Flow Diagram:	13
4.3.1	Context Level/Level-0 DFD:	13
4.3.2	Level-1 DFD:	14
5	Results and Discussion	15
5.1	Database & Tables:	15
5.2	Structure of tables:	16
5.2.1	registration database table:	16
5.2.2	gallery database table:	16
5.2.3	invitation database table:	17
5.2.4	event database table:	17
5.3	Screen Shots	18
5.3.1	Home page:	18
5.3.2	Login page:	19
5.3.3	registration page:	20
5.3.4	Add_image:	21
5.3.5	Members page:	22
5.3.6	Post invitation page:	23

5.3.7 Post event page:	24
5.3.8 contact us page:	25
6 Conclusion And Future Works	26
6.1 Conclusion	26
6.2 Future Work	26
References	28
I Biographical Sketch	29

List of Figures

4.1	Event Manager Use-Case Diagram	12
4.2	Alumni/Student Use-Case Diagram	12
4.3	Guest Use-Case Diagram	13
4.4	Context level/level-0 DFD	13
4.5	Lvel-1 DFD	14
5.1	Register table structure	16
5.2	Gallery table structure	17
5.3	Invitation table structure	17
5.4	Event table structure	18
5.5	Home page	18
5.6	Login page	19

List of Figures

5.7	Registration page	20
5.8	Add_image page	21
5.9	Member page	22
5.10	Invitation page	23
5.11	Post event page	24
5.12	Contact us page	25

CHAPTER 1

Introduction

The proposed system is to easily manage the rapidly growing database of our college. So this system will be developed with the purpose of helping the college administration through database management and to bridge the gap between the alumnis and college. The overall system is controlled by our college. This website will also provide the facility to let the alumni gather knowledge about latest events and activities happening in our college. The website will allow students to relive those old moments of college days once again through gallery section. In addition to this students can also have information about the personalities and celebrities visiting our college through latest uploaded image on our sites.

1.1 Purpose

The proposed system is to easily manage the rapidly growing database of our college. So this system will be developed for helping the college administration manage the database and maintain communication with the alumnis. The overall system is controlled by our college. This

system can be used as an application for the Alumni Information to manage the college information and students information. The system is an online application that can be accessed throughout the organization as well as for any students outside college. This application provides the centralized online records of the Alumni Members which is very easy to access and retrieve.

1.2 Motivation

Alumni is the backbone of any organization because they give the financial as well as motivational support to the organization, so that data records of Alumnis are very essential for organization . Record means not only name of alumni but his current position in company , company name ,city name where they work etc. the system is available in the college but which is maintained as individual databases i.e. in excels sheets, its an old process. And maintaining all the records in Excel sheets is difficult. It doesnt provide multiple user accessibility so the system is not accessible for any one.

1.3 Goal

The main goal of this system is to provide a professional network for the graduates or post graduate of the NIT Agartala. This project is aimed at developing an application for the alumni of the college, which is of importance to our college. The NITA alumni portal is an Internet based application that can be accessed throughout the World. Anyone can access this application to know about our Alumni of college but Alumni can only update the database . This application proposes a system that will be maintained as Centralized databases i.e. in automated forms its a very fast process. And maintaining all the records in online systems database which makes it very easy to access and retrieve data from the database.

CHAPTER 2

Literature survey

2.1 Existing System

The Existing system is a computerized system but which is maintained as individual databases i.e. in excel sheets, it's a time consuming process. And maintaining all the records in Excel sheets is difficult. If they want to access any record they have to search all the records. It doesn't provide multiple user accessibility and so the system is not accessible for all the employees of the organization.

2.1.1 Limitations in Existing System:

- The current system is not completely computerized and manually data is entered for students and staffs handle data.
- There is no centralized database maintenance.
- There is no easy procedure for accessing the particular Alumni record.

- The student cannot easily navigate through the database.
- In this system there is no option for sending invitation to alumni member about any event.

2.2 Proposed System

The Proposed system is a web based system but which is maintained at Centralized databases i.e. in automated forms its a very fast process. And maintaining all the records in database which makes it very easy to access and retrieve data from the database. If they want any record they can easily search all the records. It provides multiple user accessibility. So the system is accessible for all the employees of the organization.

2.2.1 Advantages over Existing System

- It is completely automated system in handling the college database.
- This system provides centralized database maintenance.
- This system provides easy access to the particular students account or his database.
- This system provides student to easily navigate through the application for more information in a most secure manner.
- Using this application event manager post the notification about the event.
- Using this web application event manager also send the invitation to the alumni members.

CHAPTER 3

Software Requirements

3.1 Software Requirements

3.1.1 Server Side Requirements

- Operating System : Windows XP or higher
- User Interface : HTML, CSS
- Client-side Scripting : JavaScript
- Programming Language : PHP
- Editor : Notepad++
- Database(Back end) : MySQL
- Server Deployment : wamp

3.1.2 Client Side Requirements

- Operating System : Any Operating System
- Browser : Any Browser (IE,Chrome,Mozilla,etc)

3.2 Hardware Requirements

3.2.1 Server Side Requirements

- Processor : Pentium IV or above
- Hard Disk : 40GB
- RAM : 256MB

3.2.2 Client Side Requirements

- Processor : Pentium IV or above
- Hard Disk : 20GB
- RAM : 128MB

3.3 PHP

3.3.1 definition:

PHP (Hypertext Preprocessor) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML. The best things in using PHP are that it is extremely simple for a newcomer, but offers many advanced features for a professional programmer. Dont be afraid reading the long list of PHPs features. You can jump in, in a short time, and start writing simple scripts in a few hours. PHP is an acronym for PHP: Hypertext Preprocessor. PHP is a widely-used, open source scripting language. PHP

scripts are executed on the server. PHP is free to download and use PHP is an amazing and popular language! It is powerful enough to be at the core of the biggest blogging system on the web (Word Press)! It is deep enough to run the largest social network (Facebook) It is also easy enough to be a beginners first server side language

3.3.2 What is a PHP File?

PHP files can contain text, HTML, CSS, JavaScript, and PHP code. PHP code are executed on the server, and the result is returned to the browser as plain HTML. PHP files have extension .php

3.4 HTML

HTML stands for Hypertext Markup Language, and it is the most widely used language to write Web Pages. Hypertext refers to the way in which Web pages (HTML documents) are linked together. Thus the link available on a webpage are called Hypertext. As its name suggests, HTML is a Markup Language which means you use HTML to simply "mark up" a text document with tags that tell a Web browser how to structure it to display.

Originally, HTML was developed with the intent of defining the structure of documents like headings, paragraphs, lists, and so forth to facilitate the sharing of scientific information between researchers. Now, HTML is being widely used to format web pages with the help of different tags available in HTML language.

3.5 CSS

CSS is used to control the style of a web document in a simple and easy way. CSS is the acronym for "Cascading Style Sheet". Cascading Style Sheets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable.

CSS handles the look and feel part of a web page. Using CSS, you can control the color of the text, the style of fonts, the spacing between paragraphs, how columns are sized and laid out,

what background images or colors are used, layout designs, variations in display for different devices and screen sizes as well as a variety of other effects.

3.6 Javascript

JavaScript is a lightweight, interpreted programming language. It is designed for creating network-centric applications. It is complimentary to and integrated with Java. JavaScript is very easy to implement because it is integrated with HTML. It is a dynamic computer programming language. It is lightweight and most commonly used as a part of web pages, whose implementations allow client-side script to interact with the user and make dynamic pages. It is an interpreted programming language with object-oriented capabilities.

3.7 MySQL

MySQL is the most popular Open Source Relational SQL database management system. MySQL is one of the best RDBMS being used for developing web-based software applications. MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses. MySQL is developed, marketed, and supported by MySQL AB, which is a Swedish company. MySQL is becoming so popular because of many good reasons:

- MySQL is released under an open-source license. So you have nothing to pay to use it.
- MySQL is a very powerful program in its own right. It handles a large subset of the functionality of the most expensive and powerful database packages.
- MySQL uses a standard form of the well-known SQL data language.
- MySQL works on many operating systems and with many languages including PHP, PERL, C, C++, JAVA, etc.
- MySQL works very quickly and works well even with large data sets.
- MySQL is very friendly to PHP, the most appreciated language for web development.
- MySQL is customizable. The open-source GPL license allows programmers to modify the MySQL software to fit their own specific environments.

3.8 wamp server

WampServer is a Windows web development environment. It allows you to create web applications with Apache, PHP and the MySQL database. It also comes with PHPMyAdmin to easily manage your databases. WampServer is an open source project, free to use (GPL licence).

WampServer installs automatically (installer), and its usage is very intuitive. You will be able to tune your server without even touching the setting files.

WampServer is the only packaged solution that will allow you to reproduce your production server. Once WampServer is installed, you have the possibility to add as many Apache, MySQL and PHP releases as you want.

WampServer also has a trayicon to manage your server and its settings.

WampServer Includes :

- Apache 2.2.11
- MySQL 5.1.36
- PHP 5.3.0

CHAPTER 4

Design And Analysis

4.1 General Operations

In this websites there are three module named as Admin, Alumni/Students and Guest. Those operations are given below:

4.1.1 Alumni/Students:

- User can Register to Alumni
- Registered user can login to the system
- Update the Profile
- Alumni can see all information of other alumni
- They can see the events details
- They can also post notification about event

4.1.2 Admin:

- Has full access to all the modules of this system.
- Responsible for the accounts of all students.
- Update, modify or delete event details

4.1.3 Guest:

- Only see the event /news notification
- Request for register

4.2 Use-case Diagram

A use case diagram is a graphic depiction of the interactions among the elements of a system. A use case is a methodology used in system analysis to identify, clarify, and organize system requirements. In this context, the term "system" refers to something being developed or operated, such as a mail-order product sales and service Web site. Use case diagrams are employed in UML (Unified Modeling Language), a standard notation for the modeling of real-world objects and systems

4.2.1 Use-case Diagram for Admin/Event Manager:

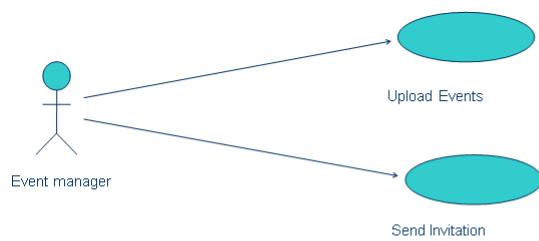


Figure 4.1: Event Manager Use-Case Diagram

4.2.2 Use-case Diagram for Alumni/Student:

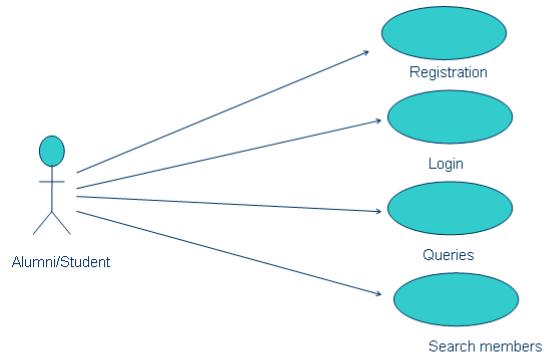


Figure 4.2: Alumni/Student Use-Case Diagram

4.2.3 Use-case Diagram for Guest:

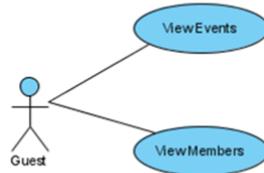


Figure 4.3: Guest Use-Case Diagram

4.3 Data Flow Diagram:

DFD is a graphical representation of the flow of data through an information system. A DFD is often used as a preliminary step to create an overview of the system. DFD can also be used for the visualization of data processing. A DFD shows what kind of information will be input to and output from the system, where the data will come from and go to, and where the data will be stored. It does not show information about the timing of process or whether processes will operate in sequence or in parallel.

4.3.1 Context Level/Level-0 DFD:

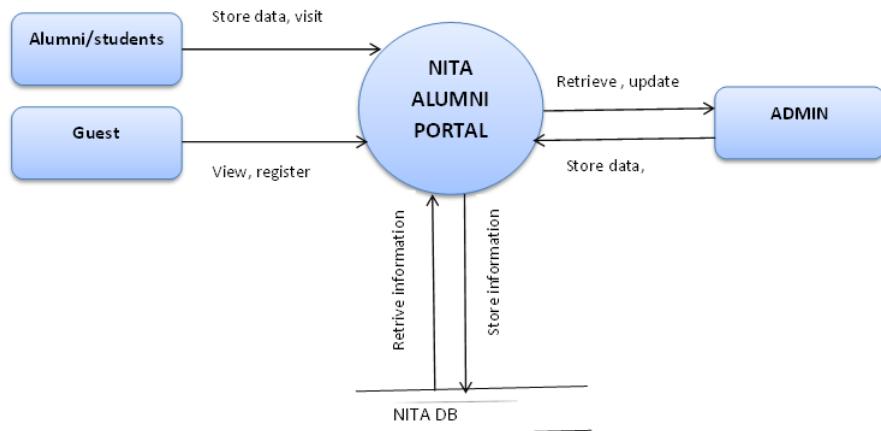


Figure 4.4: Context level/level-0 DFD

4.3.2 Level-1 DFD:

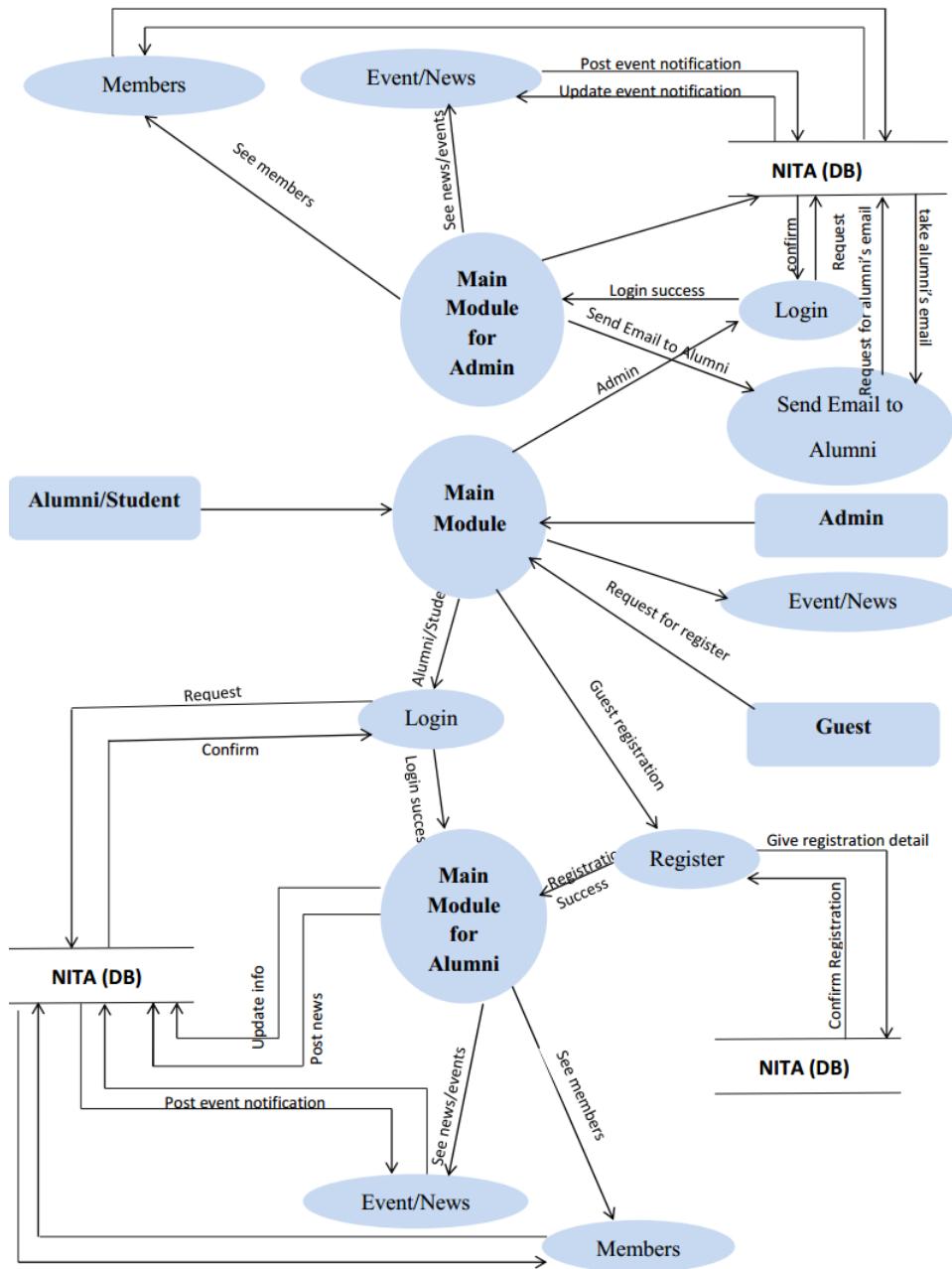


Figure 4.5: Lvel-1 DFD

CHAPTER 5

Results and Discussion

5.1 Database & Tables:

Our project uses a database named **nita**.

The database has four relations (tables) in it namely:

- **register**

- **gallery**

- **event**

- **invite**

5.2 Structure of tables:

Each table has its own specific attribute describing the relation, so describing structure of each table we have:

5.2.1 registration database table:

In **registration** database table email is the primary key, and here another keys which are present like fname,lname,department,passout, mnumber password etc which is dependent on primary key.

Column	Type	Null	Default	Comments
id	int(4)	No	No	Auto Increment
email	varchar(50)	No	No	Primarykey
fname	varchar(20)	No	No	None
lname	varchar(20)	No	No	None
department	varchar(40)	No	No	None
passout	int(4)	No	No	None
mnumber	bigint(10)	No	No	None
password	varchar(15)	No	No	None
company	varchar(80)	No	No	None
location	varchar(50)	No	No	None
image	longblob	No	No	None

Figure 5.1: Register table structure

5.2.2 gallery database table:

In **gallery** table three column are present:

- First one is id, which is auto increment.
- Second one is image which takes image from file
- Third is descp which takes varchar value (description about image)

Column	Type	Null	Default	Comments
id	int(4)	No	No	Auto_Increment
image	longblob	No	No	None
descp	varchar(50)	No	No	None

Figure 5.2: Gallery table structure

5.2.3 invitation database table:

In **invitation** table three column are present:

- First one is id, which is auto increment.
- Second one is head which takes varchar value (heading of invitation)
- Third is descp which takes varchar value (full message of invitation)

Column	Type	Null	Default	Comments
id	tinyint(4)	No	No	Auto_Increment
head	varchar(50)	No	No	None
msg	varchar(500)	No	No	None

Figure 5.3: Invitation table structure

5.2.4 event database table:

In **event** table three column are present:

- First one is id, which is auto increment.
- Second one is head which takes varchar value (heading of event)
- Third is descp which takes varchar value (full description about event)

Column	Type	Null	Default	Comments
id	tinyint(4)	No	No	Auto_Increment
head	varchar(50)	No	No	None
msg	varchar(200)	No	No	None

Figure 5.4: Event table structure

5.3 Screen Shots

5.3.1 Home page:

This is the home page of application which provides the overall view of the NITA Alumni Web Portal.

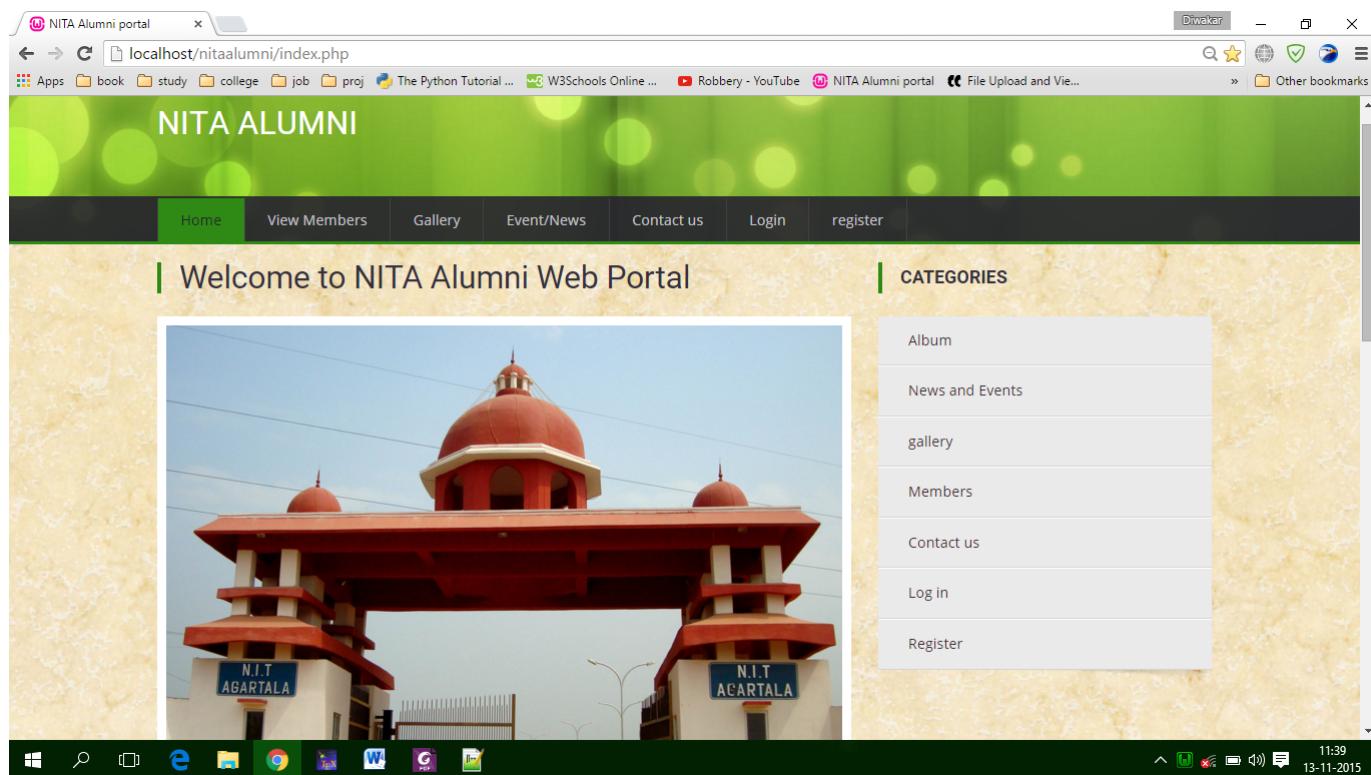


Figure 5.5: Home page

5.3.2 Login page:

This is login page where old students can login with their username and password. Only registered member can login in this application.

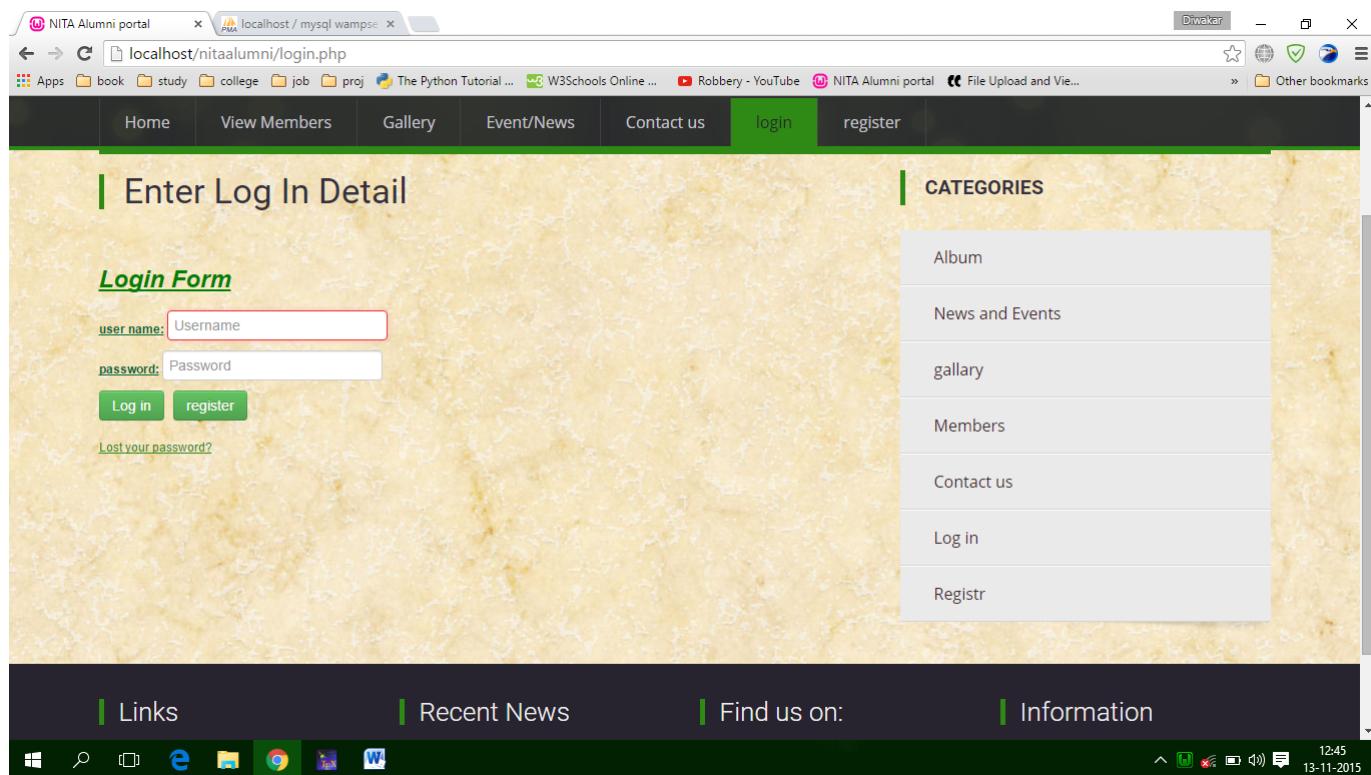


Figure 5.6: Login page

5.3.3 registration page:

This is registration page where guest or any students can fill his/her detail for registration on this application.

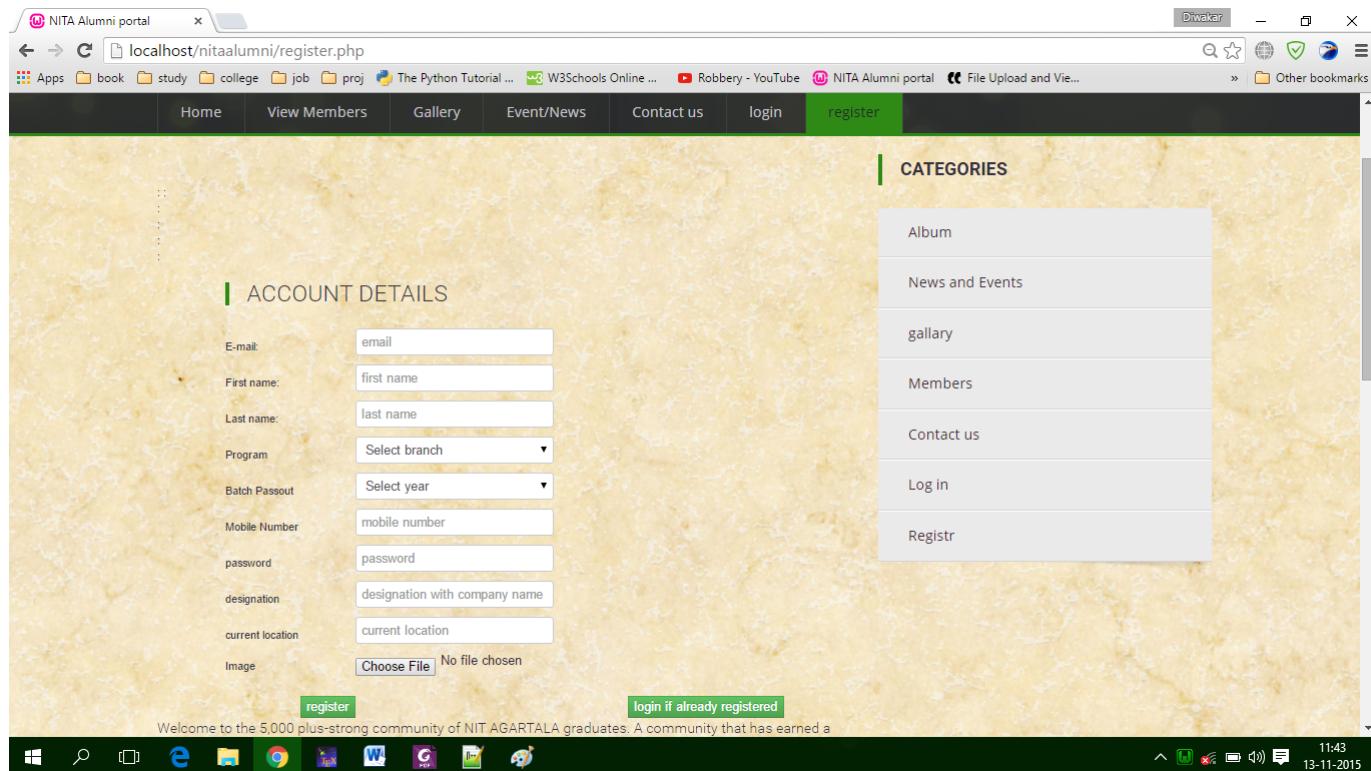


Figure 5.7: Registration page

5.3.4 Add image:

This is the Add_image page of application where Alumni members or studentas or Admin can post the image .

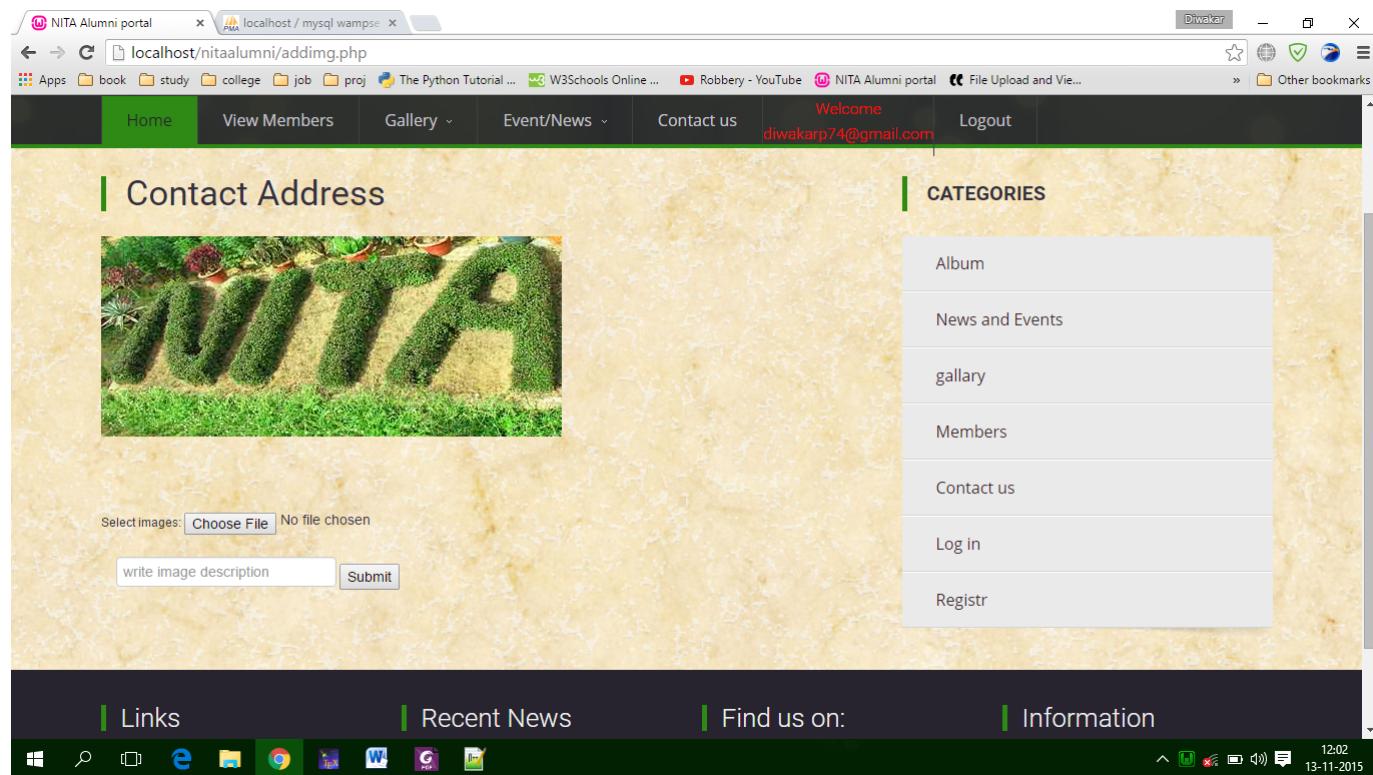


Figure 5.8: Add_image page

5.3.5 Members page:

This page shows the alumni members of college.

The screenshot shows a web browser window with the URL localhost/nitaalumni/members.php. The page has a green header with the text "NITA ALUMNI". The main content area displays five alumni profiles in a grid format. Each profile includes a thumbnail, name, email, phone number, department, passout year, company, and location.

Profile	Name	Email	Phone Number	Dept/Passout	Company	Location
	ohm gupta	ohm1392@gmail.com	9431969982	CSE (1964)	nit	patna
	divakar prasad	dprasad8877@gmail.com	2333333333	ECE (1981)	mca	ranchi
	diwakar prasad	divakarp74@gmail.com	9089365937	ECE (2005)	student, nit agaratala	agaratala
	abcse ggg	hghhhg@gmail.com	9089635965	CIVIL ENGINEERING (1981)	sdfgh	ranchi
	abc def	abc@gmail.com	1234567896	BSMS (1982)	student, nit agaratala	agaratala

Below the profiles, there are four sections: "Links", "Recent News", "Find us on:", and "Information". The "Information" section contains a note: "This web portal keeps the information about passout students of NIT agaratala". The bottom of the screen shows a Windows taskbar with various icons and the date/time: 13-11-2015 12:01.

Figure 5.9: Member page

5.3.6 Post invitation page:

This is the post invitation page of application.

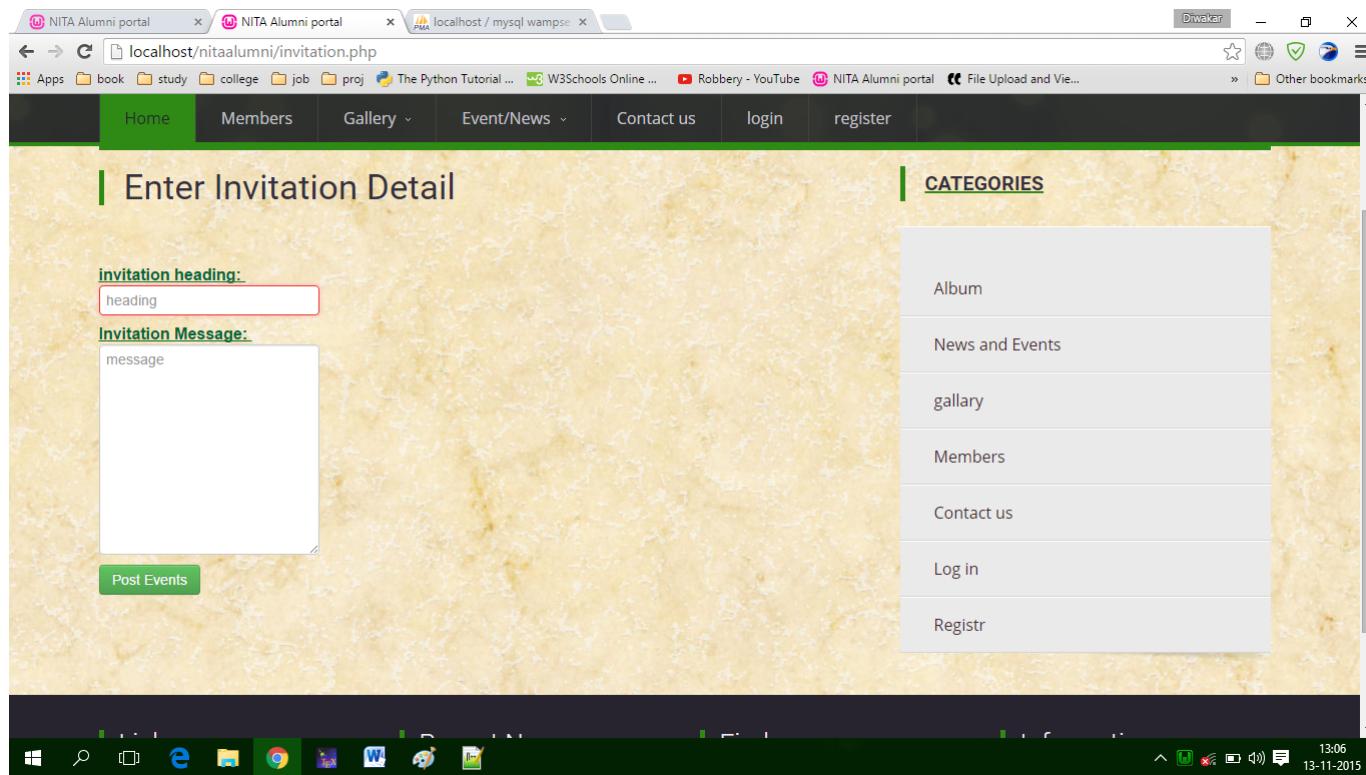


Figure 5.10: Invitation page

5.3.7 Post event page:

This is the post event page of application.

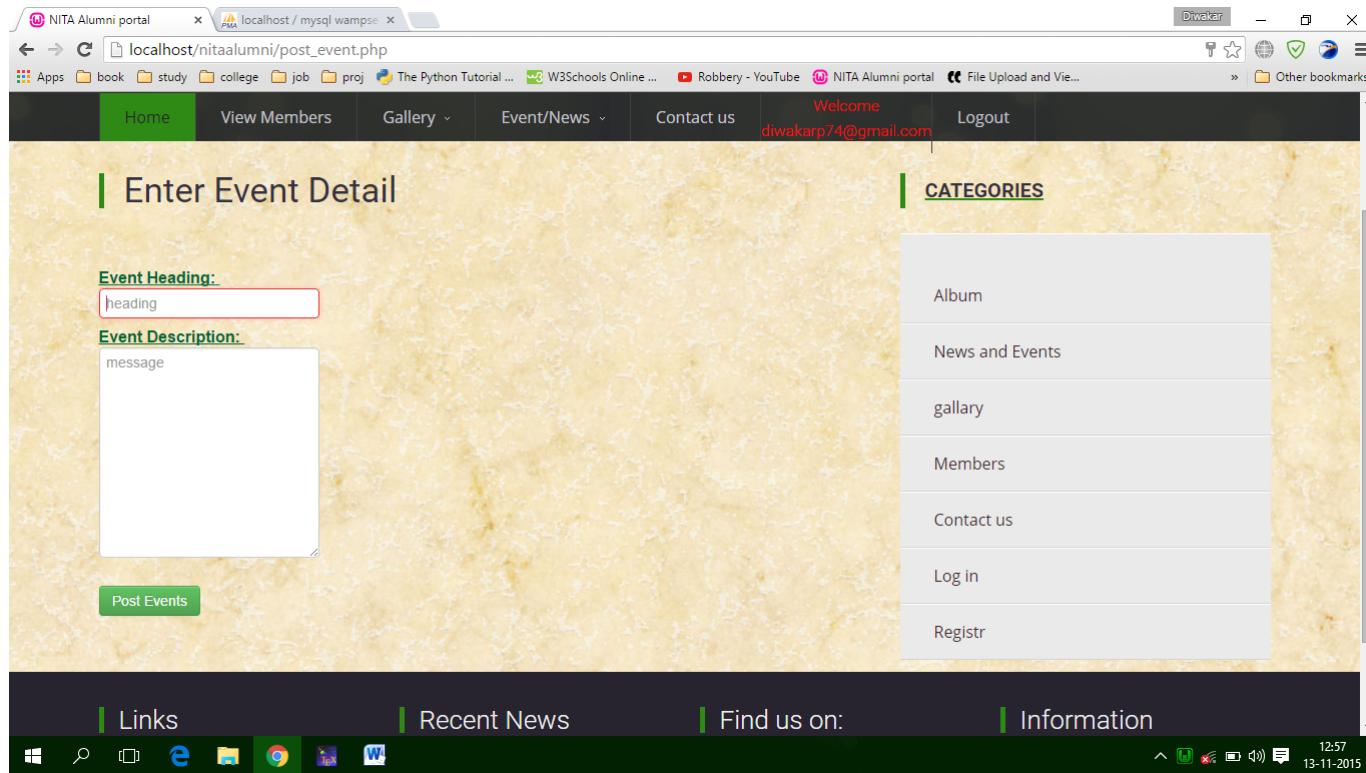


Figure 5.11: Post event page

5.3.8 contact us page:

This page will show the contact details of the college.

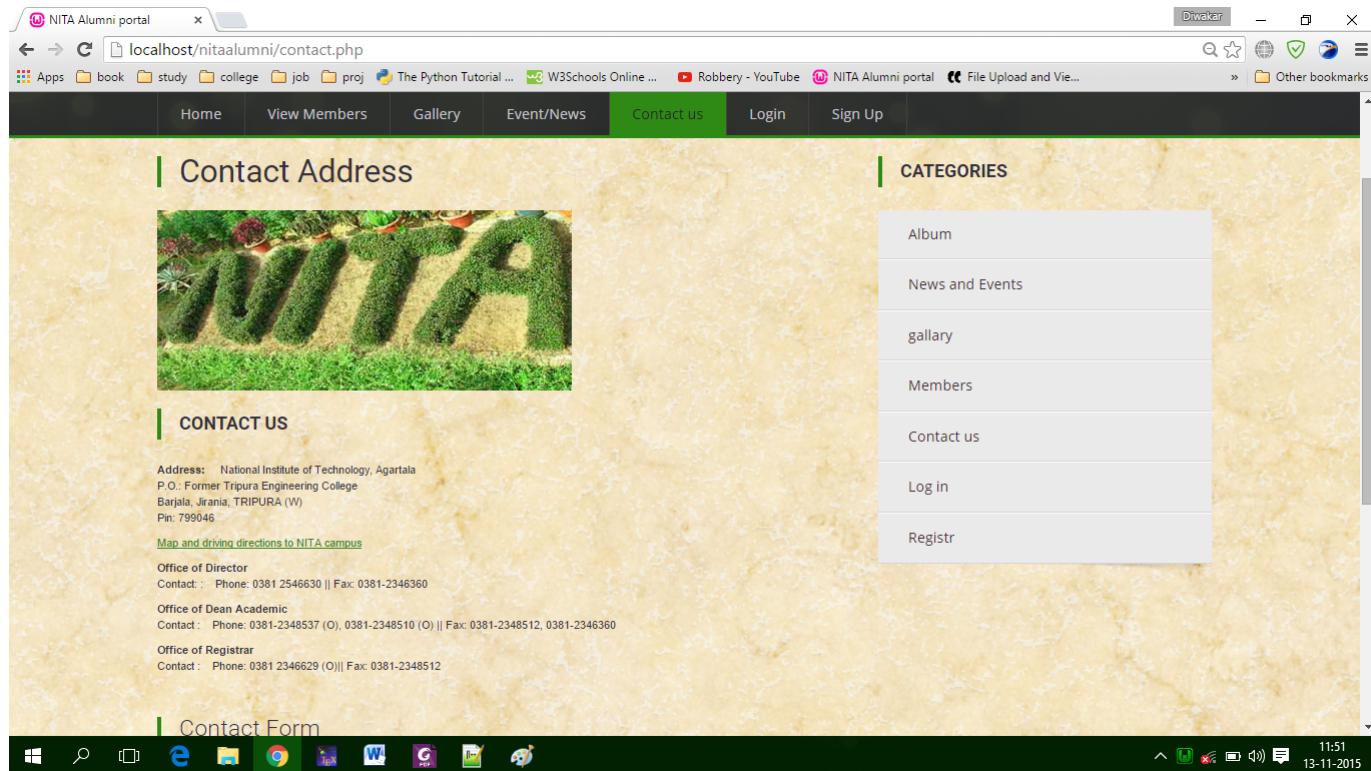


Figure 5.12: Contact us page

CHAPTER 6

Conclusion And Future Works

6.1 Conclusion

So the NITA Alumni portal is mainly used to maintain the records of pass out students as well as the current students of the college and also to help bridge the communication gap between them. The application will also serve a useful site to know what is going on in our college (events) and can provide necessary details to current students who are unknown to difficulties of IT sectors. The application can be further expanded by following the future Enhancements mentioned below.

6.2 Future Work

It is not possible to develop a system that fulfills all the requirements of the user. User requirements keep changing as the system is being used. Some of the future enhancements that can be included to this system are:

6.2. Future Work

- As the technology emerges, it is possible to upgrade the system and can be adaptable to desired environment.
- Because it is based on object-oriented design, any further changes can be easily adaptable.
- Based on the future security issues, security can be improved.
- Reunion module can be added.
- Invitation and event notification through sms can be added.
- Alumnis message can be added.

References

- [1] <https://jquery.com>
- [2] [http://www.w3schools.com.](http://www.w3schools.com)
- [3] <http://codular.com/php-pdo-how-to>
- [4] <http://www.phpeveryday.com/>
- [5] [http://www.webgeekly.com/category/tutorials/php.](http://www.webgeekly.com/category/tutorials/php)
- [6] [http://www.killerphp.com/php-videos/.](http://www.killerphp.com/php-videos/)
- [7] <http://www.php5-tutorial.com/>

APPENDIX I

Biographical Sketch

Diwakar Prasad

Room no.-204,Block-B, Aryabhatta Hostel, NIT Agartala PIN-799046, E-Mail:
dprasad8877@gmail.com, Contact. No. +91-9089365937

- Pursuing Master Of Computer Application from N.I.T,Agartala,Tripura with CGPA of 8.41/10.
- Graduate from st. Xavier's College,Ranchi(Ranchi University),Jharkhand with 62% in 2013.
- Intermediate from Ranchi College, ranchi under (J.A.C.),Jharkhand with 67.40% in 2009.
- High School from Proj. High School, Barepur, Barahi,palamau (J.A.C.),Jharkhand with 74.60 % in 1994.