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**A Major Project Report on**

**COLLEGE DEPARTMENT MANAGEMENT SYSTEM**

**USING DRUPAL 8**

Submitted in partial fulfilment for the  
degree of Bachelor of Technology in  
Information Technology

**Submitted by:**

**Snehal Pawar**

**Dhanshree Mane**

Under the guidance of  
**Prof Dr.Sanjay Shitole**



**Usha Mittal Institute of Technology**

**SNDT WOMEN'S UNIVERSITY**

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## Approval Sheet

This is to certify that Name of Student has completed the Major Project Report on the topic "COLLEGE DEPARTMENT MANAGEMENT SYSTEM USING DRUPAL 8" satisfactorily in partial fulfillment for the Bachelor's Degree in Information Technology under the guidance of Prof Dr.Sanjay Pawar during the year 2020-2021 as prescribed by S.N.D.T University.

Guide

Head Of Department

Dr.Sanjay Shitole

Prof.Dr.Sanjay Shitole

Principal

Dr.Sanjay Pawar

Examiner 1

Examiner 2

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(Signature )

(Snehal Pawar)

(Dhanshree Mane)

(Roll No.1713032)

(Roll No.1613057)

Date

## **Abstract**

The main role of College Management system provides a simple interface for maintenance of student-faculty information. Using this system you can manage all college management work like admission, fees submission, time table management and result declaration, attendance, academic related reports, college details, course details, curriculum, batch details, placement details. We have created one content management system (CMS). There are many CMS available in tech world such as Wordpress, Drupal, Joomla and many more. Being most secure among all CMS i.e. Drupal CMS is preferred for this project. This proposed system framework supports that administrator would maintain the accounts of the students and staff, prepares the time-table and upload the current information regarding the campus.

Keywords: college system, admin, interface, students, Drupal, CMS

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# Nomenclature

CMS      Content Management System

# Chapter 1

## Introduction

College Management System Project is based on carrying out various tasks which goes under college management. College Management System Project will control all activities for a particular college. To handle all the tasks, system has been divided into different modules and presented on a single window, so that its user can handle it in eco-friendly manner. College management system is an Intranet based application that aims at providing information to all the levels of management within an organization. This system can be used as a information management system for the college.

Amidst the pandemic of COVID-19, there have been various issues regarding the learning infrastructure, now based solely on Google's infrastructure and Zoom's Privacy breaching issues. Thinking of such issues, we thought to make an infrastructure of control and safety for the college to make sure, the privacy of each student is maintained within the college databases and architecture while also making sure no educational aspect is affected due to the current crisis. College Management System synchronizes the working of all the departments. It looks on all aspects of a college, its students, faculties, departments, marks and other co-curricular activities. The main aim of this project is to develop an online website which covers all the details of college, that is Student attendance details, Event Details, Student fees transaction details, Mark details, photo-gallery, etc. Admin is the super user of this project. All the record stores in MYSQL Database. The application is reduced as much as possible to avoid errors while entering data. No formal knowledge is needed for the user to use this system, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to

concentrate on the record keeping. Thus it will help organization in better utilization of resources. So in our project, we will use website application that will be made using Drupal to make sure all the security features like, privacy, session management, SQL injection threats, non-random student activity, College notes provision, ID check and the college information are all clubbed into the same website, so as to make sure that the project seems seamless to the outside world, giving information about the college while also being a central portal for college students, to get admitted in the college database and enable them the features that the site provides right now, and can be upgraded in the future, to allow video call features and recorded lecture sessions in it as well.

## 1.1 The problem statement in details

The current college management system of UMIT is not completely computerized. All the data is in excel sheets which is handled manually and have risk of mail spamming. So the main aim of the project is to integrate distinct sections of the organizations into consistent manner so that complex functions can be handled smoothly by any technical and non-technical person.

## 1.2 Purpose Of the project

The main purpose of the Admin Module is to introduce new things and configure important aspects. For example only admin is authorized to introduce board, subject, category, etc, and only admin is allowed to configure exam and set fees structure. So the master screens for all these are visible to only admin role. This is done by the Admin Module. It can create the users Physical and logical Locations. Thus main purpose of the Admin Module is to managing the dynamic working of the system.

## **Chapter 2**

# **Review of Literature**

This project is aimed at developing a Repository and each Engine for college system, which is of importance to a college. The college portal is a web based application that can be accessed throughout the World. Anyone can access the search Engine to know about any college. This system can be used as an application for the College Information.

### **2.1 Author ‘Lalit Joshi’**

- The system (CMS) is an Intranet based application that can be accessed throughout the institution or a specified department. This system can be used as a information management system for the college.
- This system may be used for monitoring attendence for the college. Students as well as staffs logging in may also access or can be search any of the information regarding college.
- Attendance of the staff and students as well as marks of the students will be updated by staff. This system (C.M.S ) is being developed for an engineering college to maintain and facilitate easy access to information
- For this the users must be registered with the system after which they can access as well as modify data as per the permissions given to them. CMS is an intranet based application that aims at providing information to all the levels of management with in an organization.

- This system can be used as a knowledge/information management system for the college. For a given student/staff (technical/Non-technical)can access the system to either upload or download some information from the database

## 2.2 Author 'S. R. Bharamagoudar, Geeta, S.G. Totad'

- It is Web Based Student Information Management System that provided a simple interface for maintenance of student information
- It could be used by educational institutes or colleges to maintain the records of students easily. The creation and management of accurate, up-to-date information regarding a students' academic career is critically important in the university as well as colleges.
- Student information system deals with all kind of student details, academic related reports, college details, course details, curriculum, batch details, placement details and other resource related details too

## 2.3 International Research Journal of Engineering and Technology (IRJET)

- It manages the college information, student information , placement information , various different types of event going on in our college .
- It also keeps track records of all the information regarding students those who are placed in the various organization. It has a notice board which contains information about various cultural or technical or any sports which is supposed to be held soon
- With the help of this project, you can view the previous videos with the help of internet connection

## 2.4 International Journal of Computer Science and Mobile Computing

- This paper assists in automating the existing manual system. This is a paperless work. It can be monitored and controlled remotely. It reduces the man power required. It provides accurate information always. Malpractice can be reduced.

- All years together gathered information can be saved and can be accessed at any time. The system utilizes user authentication, displaying only information necessary for an individual's duties.

- All the stakeholders, faculty and management can get the required information without delay. This system is essential in the colleges/hostels and universities.

## 2.5 IEEE Author:M. Ashok Kumar Ch. Mohan Srinivas; K. Vishnu Vardhan Reddy K. Kiran Kumar

- The core idea of this project is to implement android based Mobile Campus application for advancement of institution and educational system. The application will be used by students, teachers and parents. In the previous system, all the information has to view in a hard file, or in website

- At the same time while searching any information it is too difficult to access and takes a lot of time to search the particular website. Hence, in order to overcome this problem a smart phone based application using Android can be used to make this process easier, secure and less error prone. More efficient information's will be achieved through this system.

## 2.6 Existing system

In existing system, the college events, exam timetable and other information are displayed on notice boards and thus it become very important for students to check the notice board regularly. This process of displaying notices does not guarantee that every student have received the message. Other than that it requires lot of time. The existing system has no direct communication between student and teachers directly. And if teacher want to communicate with student or deliver an important message it becomes difficult for them. Thus there is a great need for a fast, reliable, efficient and easy automated system which will help in updating and provide the best way for interaction in short duration of time.

### 2.6.1 Limitations in Existing System

- The current system is not completely complete computerized and manual system in entering students and staff data and handling it.
- There is no centralized database maintenance.
- There is no easy access to the particular students record.
- The student cannot easily navigate through the database.

## 2.7 Proposed system

The proposed system will be online so it can be accessed by user anywhere. It will enable quick and easy communication. Each user will be responsible for the updating their own information. Once the user open this Android and web application, at the front end all the schedule/event are available to everyone in a precise manner

### 2.7.1 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 her complete details.
- This system provides student to easily navigate through the application for more information in a most secure manner.

# **Chapter 3**

# **Software Requirements Specification (SRS)**

In this chapter We are going to discuss about client and server side requirements for both software and hardware purpose in my project.

## **3.1 Software Requirements**

Let see the software requirements for college management system at client and server side as well.

### **3.1.1 Server Side Requirements**

Operating System : Windows 10

User Interface : HTML, CSS

Client-side Scripting : JavaScript

Programming Language : PHP 7.2, Apache 2.0

Web Applications : Drupal 8.9.1

Database : MySQL 5.7

### 3.1.2 Client Side Requirements

Operating System : Any Operating System (Windows, Linux, Mac OS)

Browser : Any Browser (Chrome, Opera, Mozilla, IE, Chromium)

## 3.2 Hardware Requirements

Let see the hardware requirements for college management system at client and server side as well.

### 3.2.1 Server Side Requirements

Processor : Pentium IV or above

Hard Disk : 40 GB

RAM : 256 MB

### 3.2.2 Client Side Requirements

Processor : Pentium II

Hard Disk : 20 GB

RAM : 128 MB

# **Chapter 4**

## **System Design**

In this chapter, we will discuss about explanation for the powers of administration with faculty and students.

### **4.1 Users**

In this system, there are mainly three users such as -

- 1)Admin
- 2)Student
- 3)Faculty

#### **4.1.1 Admin:**

The admin will be responsible for creating new login IDs for incoming students. The admin will also have to browse the site to ensure no objectionable content is posted. The admin will also be notified about any complaints from users.

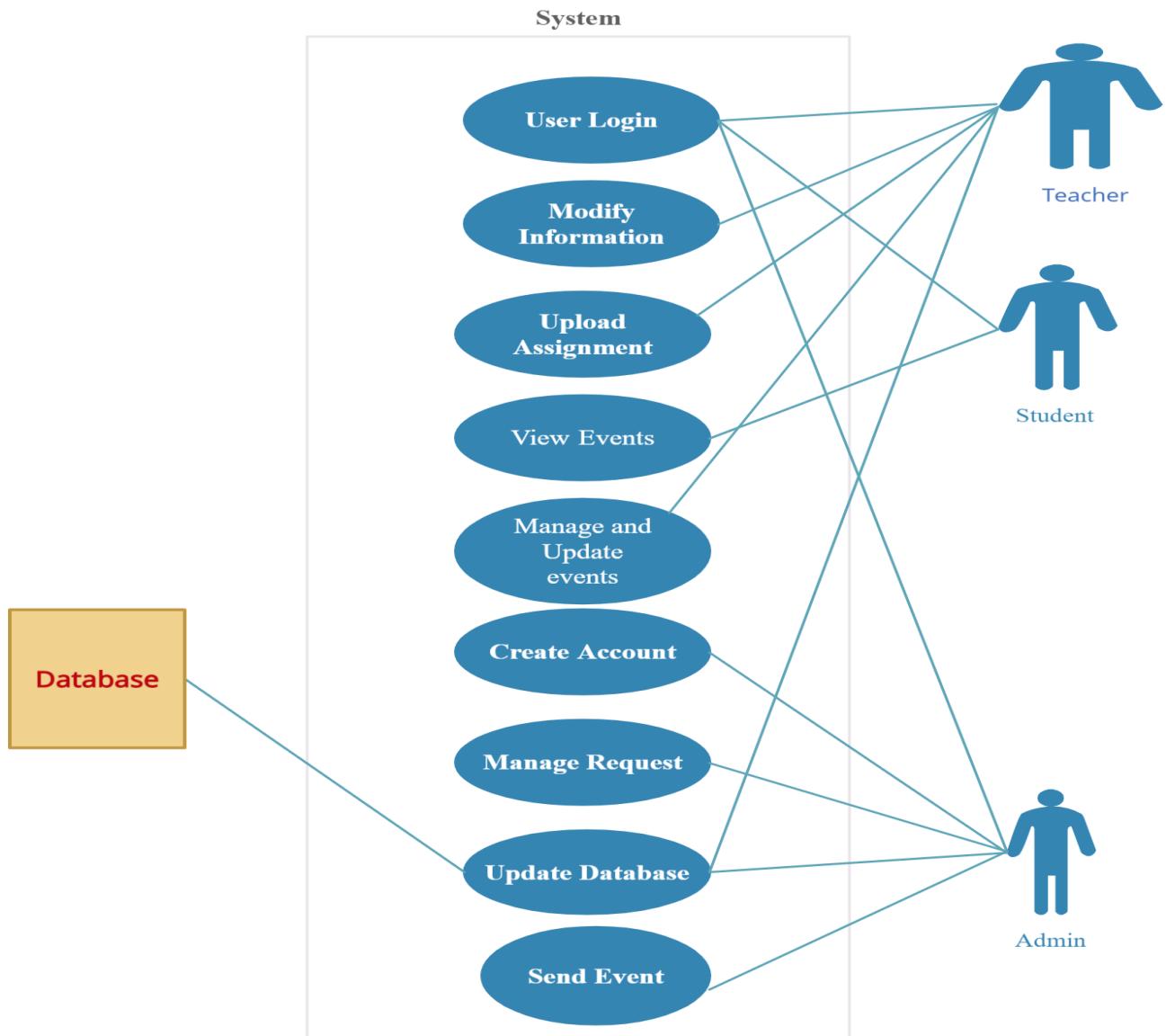


Figure 4.1: Usecase Diagram

#### 4.1.2 Student:

The student module can be used to browse through the site and access college information. This module gives the information about course and subject details, events and fresh news, black list, own result and attendance, Download assignments and time table.

### 4.1.3 Faculty:

This module deals mainly with personal details of the faculty. This provides the staff with his/her attendance details. They can view own subject attendance and result as well as upload own subject assignment.

## 4.2 Functional Description

- Login to the system through the first page of the application.
- Change the password after login to the application.
- See her details and change it.
- Help from the system.

## 4.3 General Operations:

In this section, we will discuss about the general operations performed by the users who will browse the website.

### 4.3.1 Normal Users:

- User can Register
- User can login to the system
- Students can see all information regarding college
- They can see the events details
- Students also can see the last year campus details

### 4.3.2 Admin:

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

**4.3.3 Faculty:**

- o View own subject attendance and result
- o Upload own subject assignment
- o Update, modify or delete event details.
- o Prepares and submits also Daily reports, user reports, event reports, etc.

**4.3.4 Department Information:**

- o Course : This contains the information about the number of the courses offered by the college and number of seats present in each.
- o Staff : This contains the number of staff available in each department.
- o Infrastructure: This has the details of the assets allotted for each department
- o Syllabus : This provides the academic syllabus of the students from different branches.

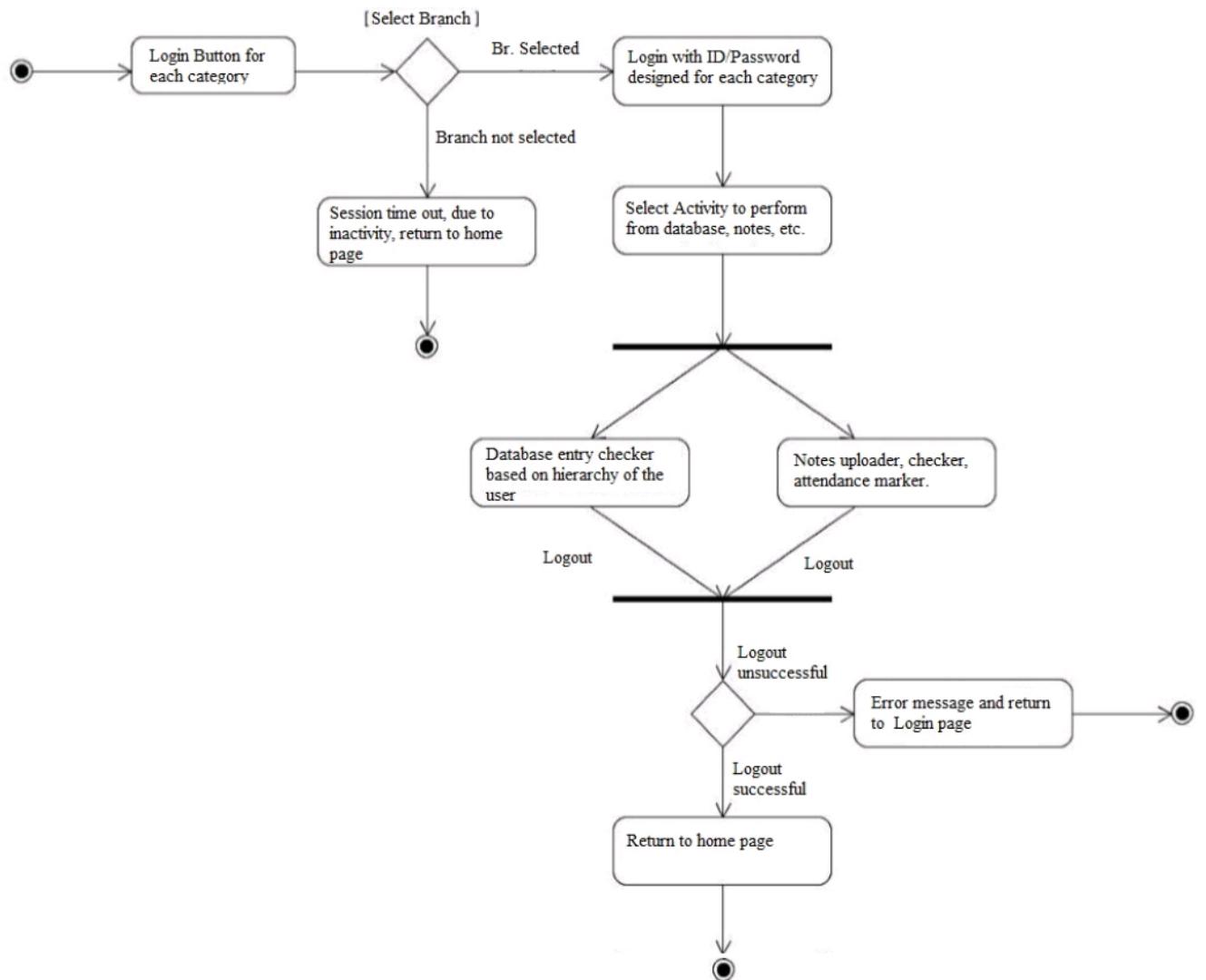


Figure 4.2: Activity Diagram

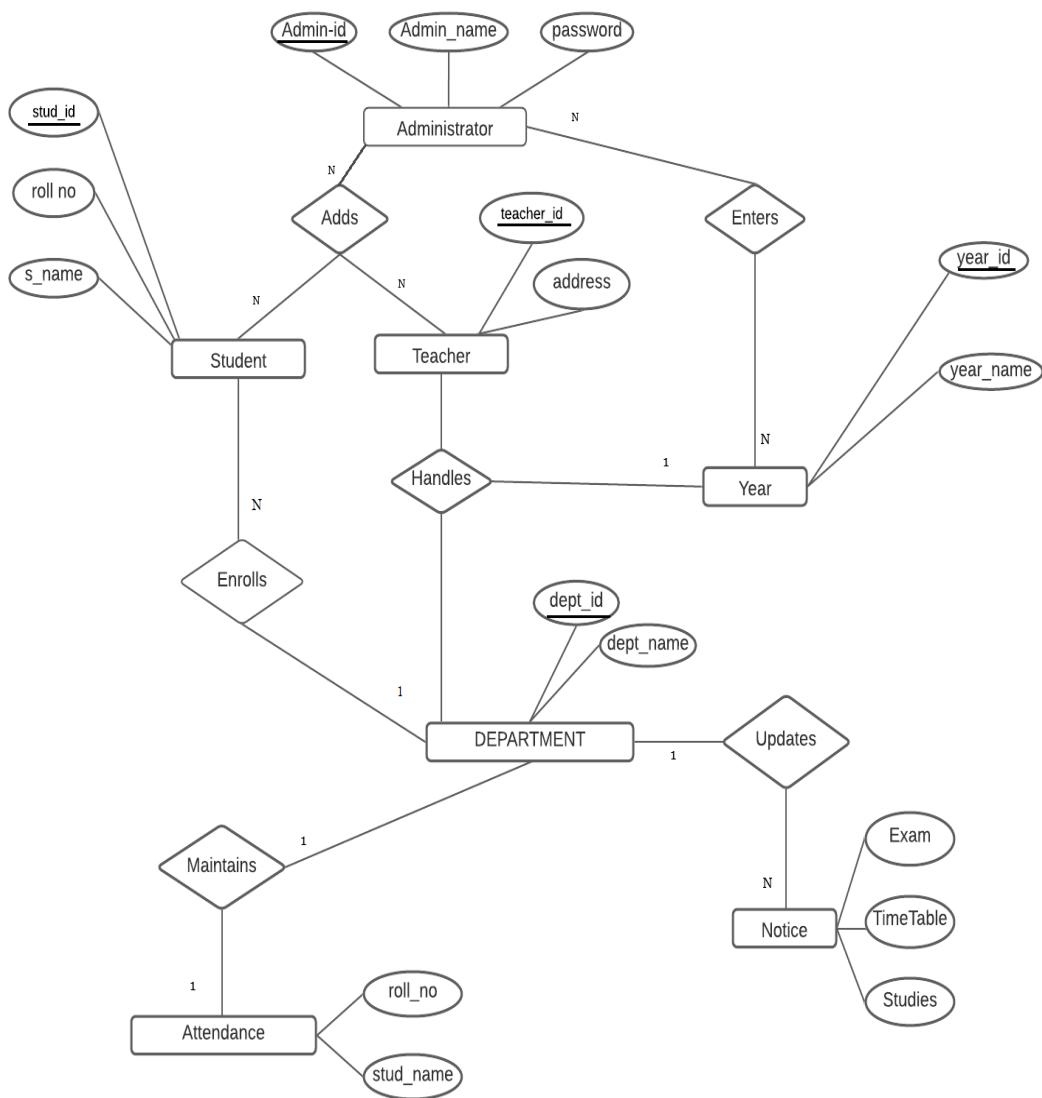


Figure 4.3: ER Diagram

# **Chapter 5**

## **Methodology**

There are different platforms used to create Drupal website. Some of them are :

- 1) Acquia Dev Cloud
- 2) Wamp/Lamp/Xamp
- 3) Digital Ocean cloud

### **5.1 Acquia Dev Cloud:**

At first, I have used Acquia dev cloud platform to create my college portal using drupal. It also provide hosting but with extra charges. But you can make the website on local acquia dev platform for free. I have downloaded the acquia cloud platform first for windows 10 machine. Then after downloading it, I have installed it and started the Drupal installation process. I have set the requirements such as database, email address, language etc. And then I install core modules. After that I have started implementing functionalities of Drupal which are also called as modules to make my portal more functional and user friendly.

## 5.2 Drupal CMS



Figure 5.1: Drupal Logo

Drupal is a combination of CMS and CMF. It also provides test drive (<https://www.drupal.org>). Drupal is best for long term use and it is 10 times better than other CMS. Drupal can built simple to complex websites. It was founded by Dries Buytaert in 2000. (Dries 2001) The “Drupal” term embodies “Druppel” in Dutch, meaning Drop (as in ”a water droplet”). It was originally written as a message board, so Dries and his friends could stay in touch, shared interesting findings. It grew so rapidly that people started sharing, discussed about ideas, web technologies. And there’s a proposal to release the web technologies, the software that ran the site. In this way, people could have wider chance to develop, to do more experiments, and make greater contribution to the community. So in 16 January 2001, Dries made a decision to launch the software behind drop.org and named it Drupal. It is written in PHP.



Figure 5.2: Drupal wordmark

As we can see in fig.5.1, according to sucuri report of hacked website and doing comparison between CMS, we found drupal is a right platform to build a website. (Daniel 2017)

### 5.2.1 Why choose Drupal?

- More Secure
- Scalable and Cost effective
- Open source framework
- Content handling is easy
- Responsive
- Multilingual capabilities (100 different languages)
- Easy to upgrade
- Drupal community
- SEO friendly
- Flexible
- License free software
- Compatible with all browsers
- Mobile friendly

### 5.2.2 Modules and Themes

There are more than 2900 themes and 46000 modules are present in Drupal.

Drupal provides Bartik as it's default theme. You can installed different theme according 17 to your choice. Themes I have tried on my portal :

- 1) Danland
- 2) Likable
- 3) Drupal 8 Parallax

There are some core modules which are installed by Drupal while setting up the website at start These modules are not customised. You can installed the modules available on drupal as a contributed module, so you can edit them according to your need. To install these modules you can directly download it from Drupal.org website or you can also install it via composer. Composer is more preferable installer for Drupal modules, because it helps you to install all the modules along with it's dependencies. You can also create your own modules which you can stored in custom folder inside modules. Following are some of the modules I have used for my website :

- 1) Superfish : This module will help you to make drop down menus.
- 2) Simple Login : This module is basically a login module. It will help visitor to register/login their account on portal.
- 3) Devel : It's a web profiler module which will show you all the details like module, theme installed, login users, active users etc.
- 4) SMTP : This module helps you to send the feedbacks and receive the mails from admin such as event notifications, survey forms etc.
- 5) Geolocation : This module helps to track the location on Google map.
- 6) Entity Print : This module is for printing purpose. It will help you to take print or download the page into pdf or word format. For pdf, I have installed dompdf library which is a dependency of this module.
- 7) Text resize : This is W3C standard module. It basically helps to resize the text of the website.
- 9) Token : This module is like a dependency which is required in many other modules.
- 10) Powrjobboard : This is a job portal module where alumnis or admins can post job vacancies. So students can apply for the same.
- 11) Responsive image : This module is for making image responsive according to your device.
- 12) Webform : This module helps to create forms such as event registration, survey forms etc.
- 13) Views slideshow cycle : This is for image slideshow. It will help you to create image slideshow on your front page if your theme doesn't have the inbuild slider.
- 14) ckeditor font : It basically provides more font options in the toolbar.
- 15) Sitemap : This module will show the sitemap of your website.
- 16) Video filter : This is filter where you can change the quality and speed of the video.
- 17) Responsive preview : It basically gives you preview of any content you are going to post.
- 18) Drupal moodle integration : This will help you to intergret the moodle lms with your portal.
- 19) PWA : It stands for Progressive Web App. This module will make your website progressive. So user can just add the website on their mobile homescreen. and experience it as an app by tapping the icon.

20) Gtranslate : This module will help you to change the language of website according to your choice.

### 5.2.3 Multi-use of Drupal

- Personal or corporate Web sites
- Blogs, art, portfolio, music, multimedia sites
- Social networking sites
- E-commerce sites
- Community portal sites
- International sites (websites with multi languages)
- Educational sites

### 5.2.4 Disadvantages

- May be difficult for new-comer
- Requires prior knowledge about working of drupal
- Among other CMS, Drupal has only 4.7 percent share in the market

### 5.2.5 Some famous websites

Just click on the following names to visit their website.

1. NASA
2. London Govt
3. eBay
4. Lady Gaga
5. Harvard University
6. Twitter developer community
7. The Emmy awards
8. Nokia
9. Timex
10. Tesla Motors

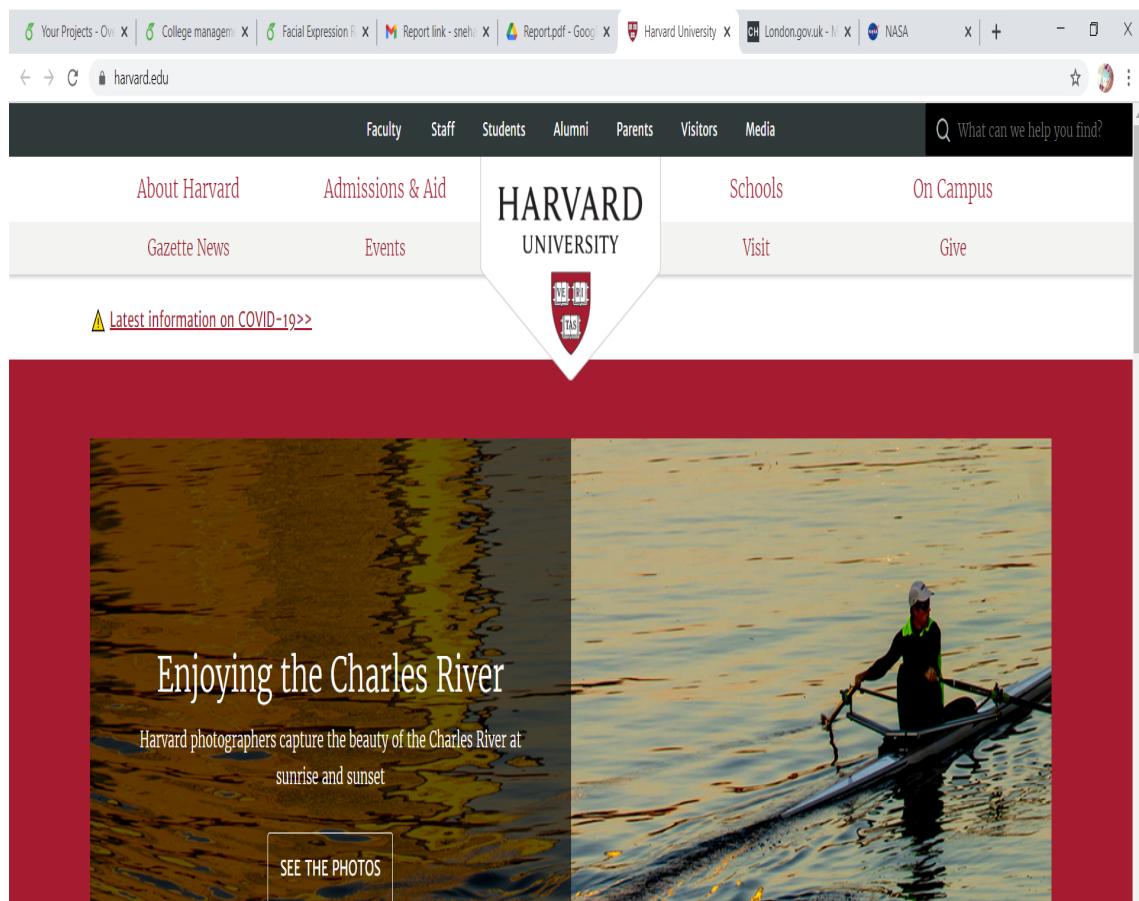


Figure 5.3: Harward University

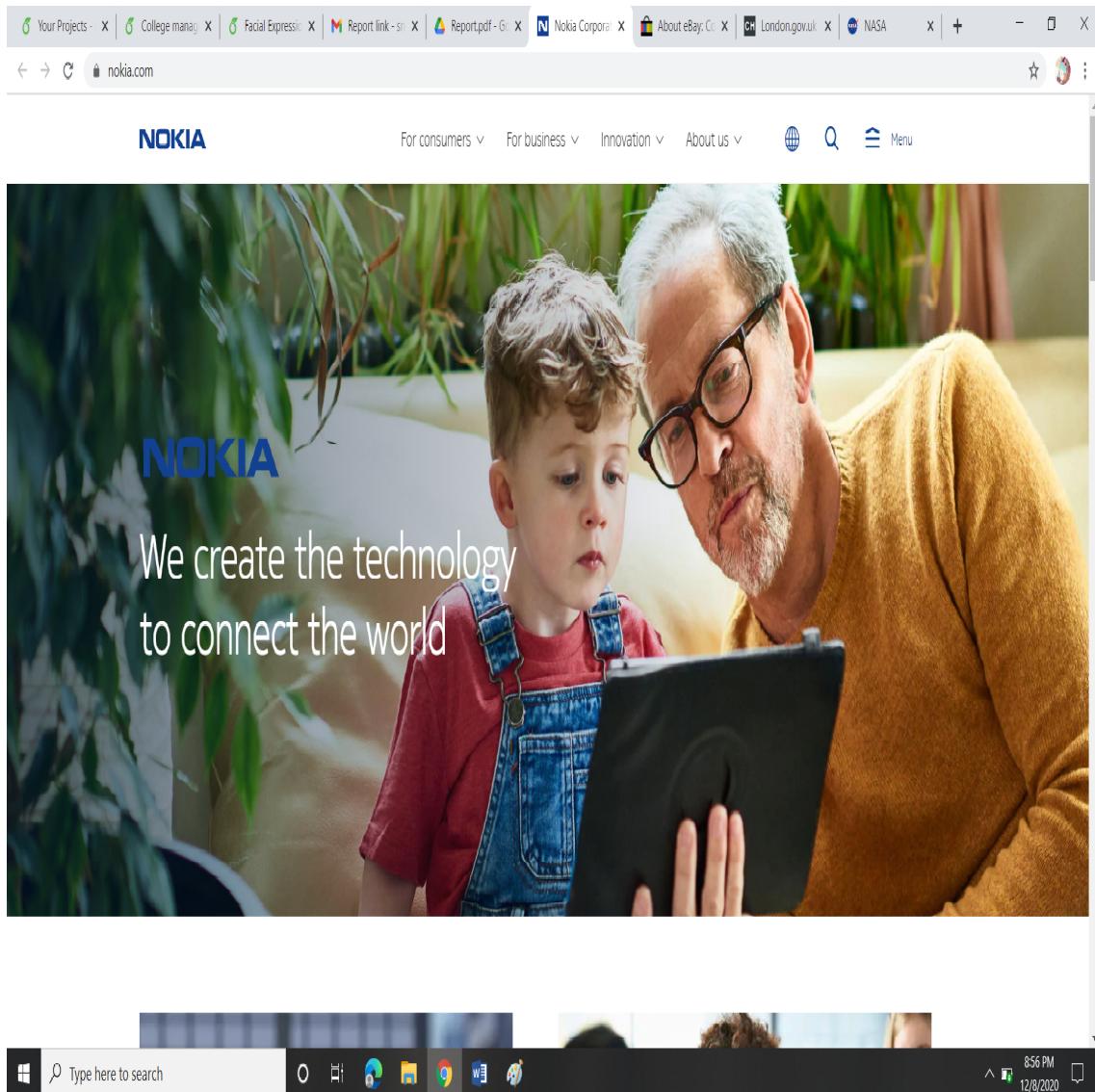


Figure 5.4: Nokia

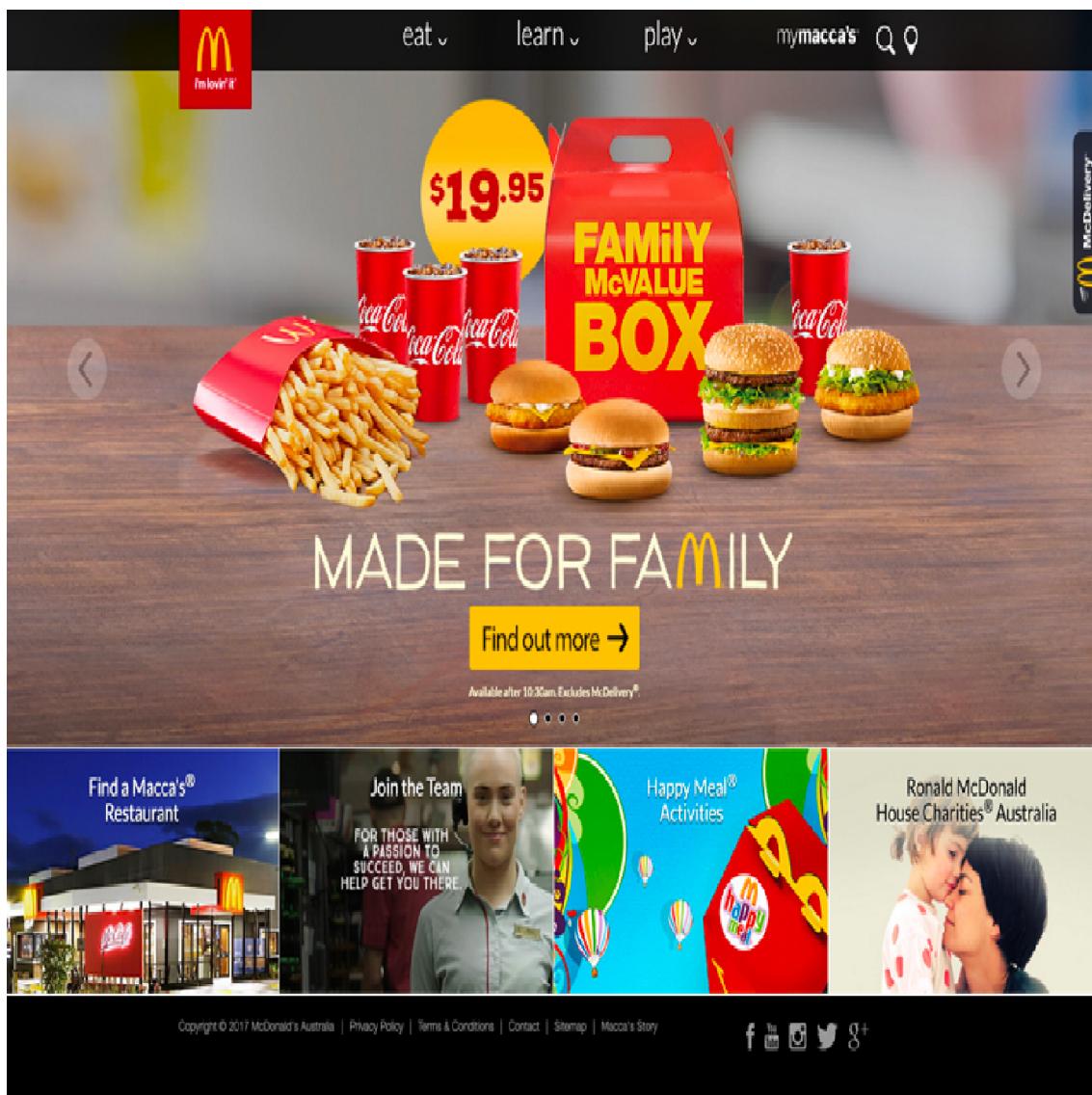


Figure 5.5: McDonald's

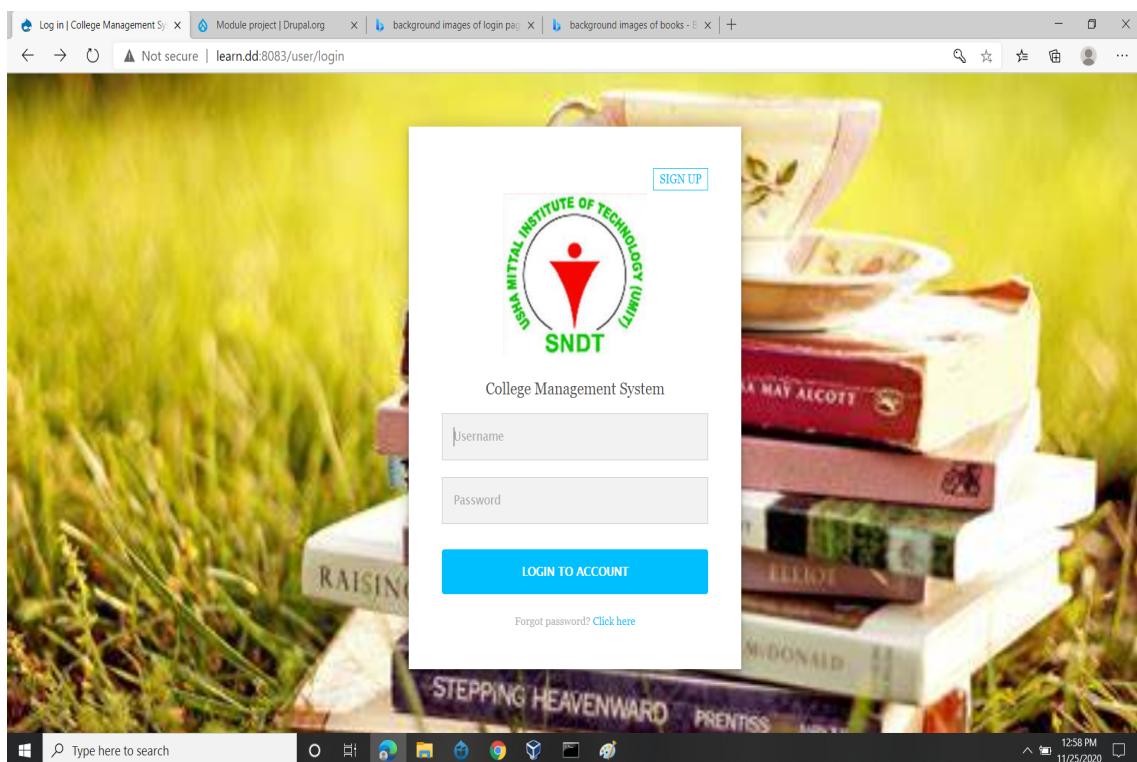


Figure 5.6: Login Page

# Chapter 6

## Implementation of the Proposed System

In this chapter, we will see the process of website making from scratch on remote server such as droplet installation, LAMP installation, Drupal Installation and further functionalities. Also, we had mentioned about implementation of drupal functionalities and experimental results of college portal.

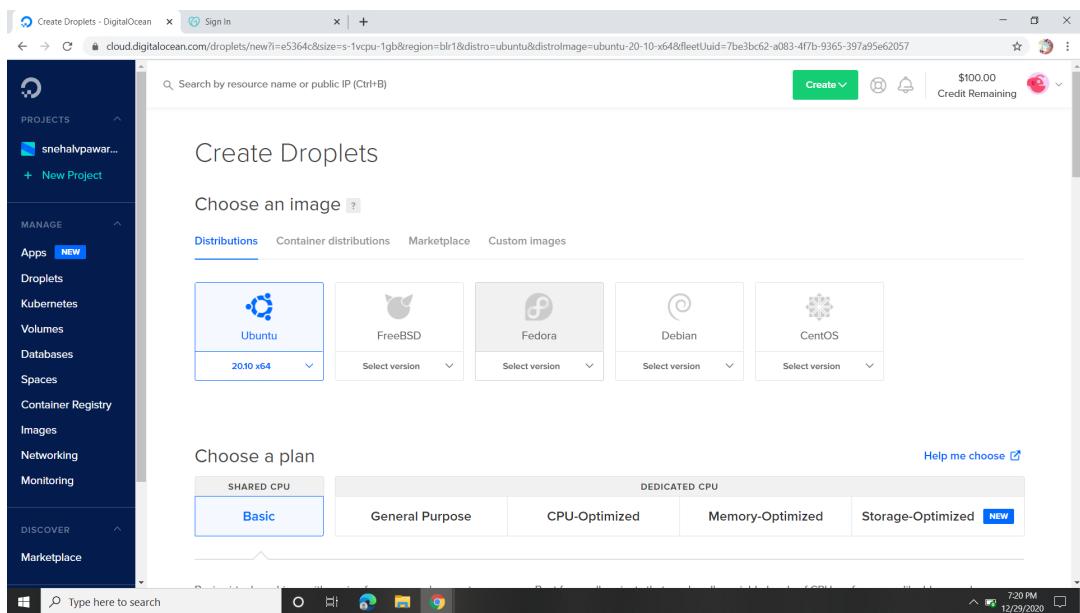


Figure 6.1: Digital Ocean Platfrom1

## 6.1 Digital Ocean platform

To build the college website first we had bought droplet from digital ocean platform for 350 INR/ per month. Well,Digital ocean is a cloud infrastructure provider which basically provides cloud services that help to deploy and scale applications that run simultaneously on multiple computers (Digital 2020) . First, we have created account on Digital ocean platform. After login into account, we have created that droplet named as 'sndtumit.xyz'. Digital Ocean provides ubuntu distribution to make LAMP stack, moodles etc even on windows and MAC machines.

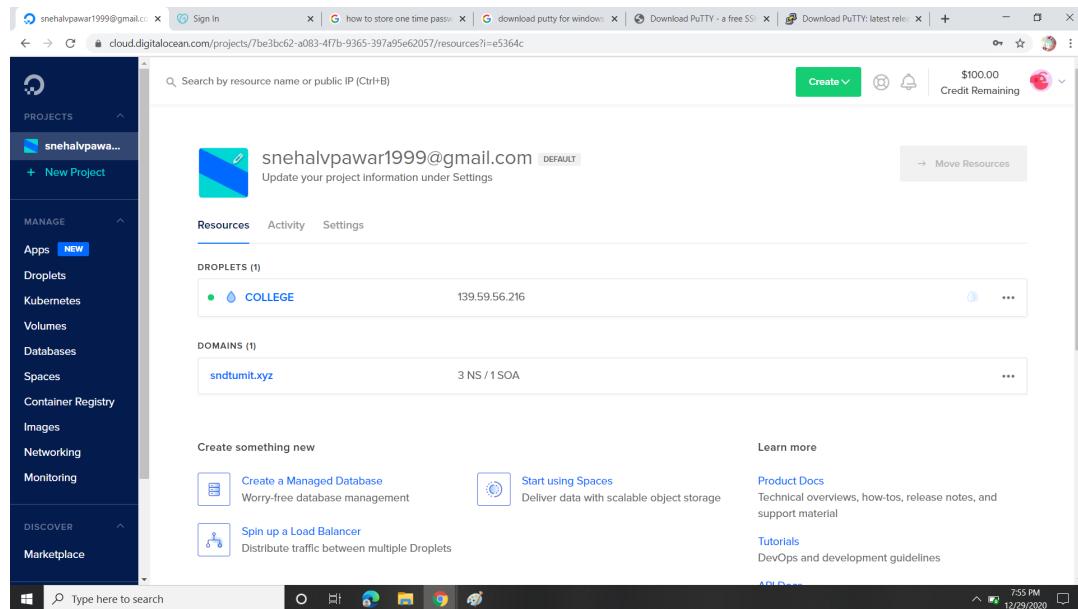


Figure 6.2: Digital Ocean Platform

### 6.1.1 LAMP installation

Well, being most used and most flexible server we choose to switch to LAMP from WAMP. we have created LAMP server (BMTech 2020) using droplet of digital ocean. This droplet provides hosting too i.e.It provides unique IP address which we used as host. But before creating server wee had bought domain name from GoDaddy.com

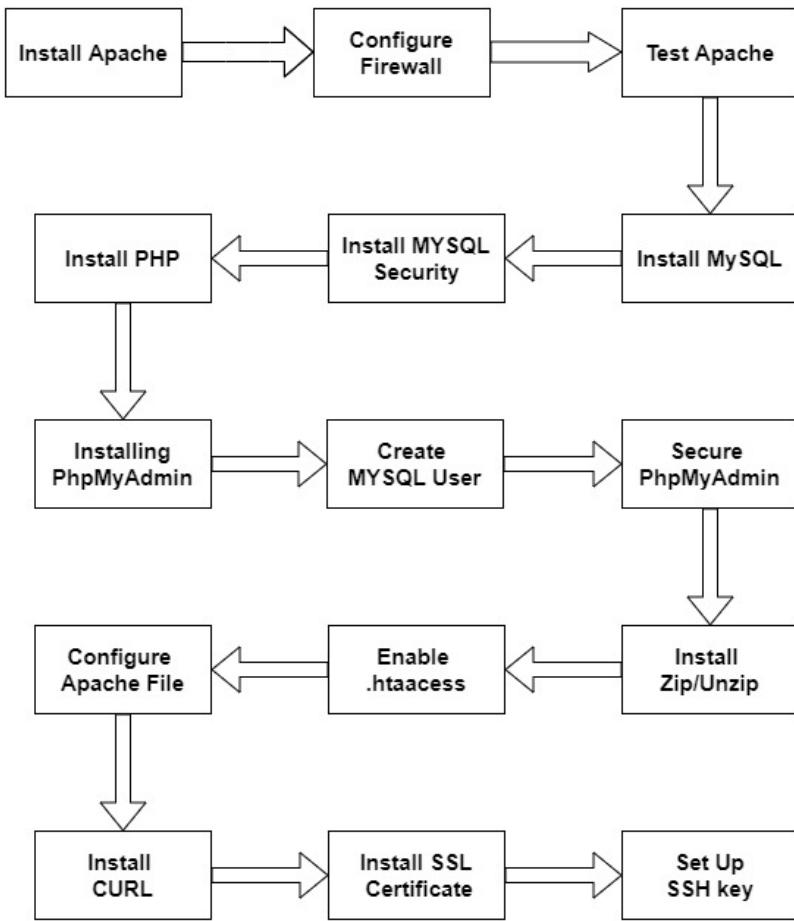


Figure 6.3: Block Diagram for LAMP installation

named as `sndtumit.xyz` for 293 INR. After buying that domain, we have entered url's of `digitalocean.com`, so it will give access to host the website without any technical issues. After buying domain name, we add that domain to our droplet for hosting purpose. Then, we have installed LAMP server i.e. Linux, Apache, MySQL, PhpMyAdmin on my machine. As mentioned before, we didn't need to dual boot our windows machine with ubuntu, because Digital ocean provides the distribution we wanted like ubuntu(16,18), freebird etc. After that, to install Apache, MySQL and PhpMyAdmin we had follow some commands which is listed in this article (BMTech 2018). First, we installed Apache 2.0 and configured the firewall. Then we checked the status of apache it is running or not. It showed the default page of Ubuntu. After testing the apache service, we installed MySQL. After installing that, we go for installation of MySQL security to secure our database. Then we installed PHP, after that installation of PhpMyAdmin will take place. After installing this, we have created MySQL user. we can create it later too, but it is good if I create it now so it will not take much time while setup

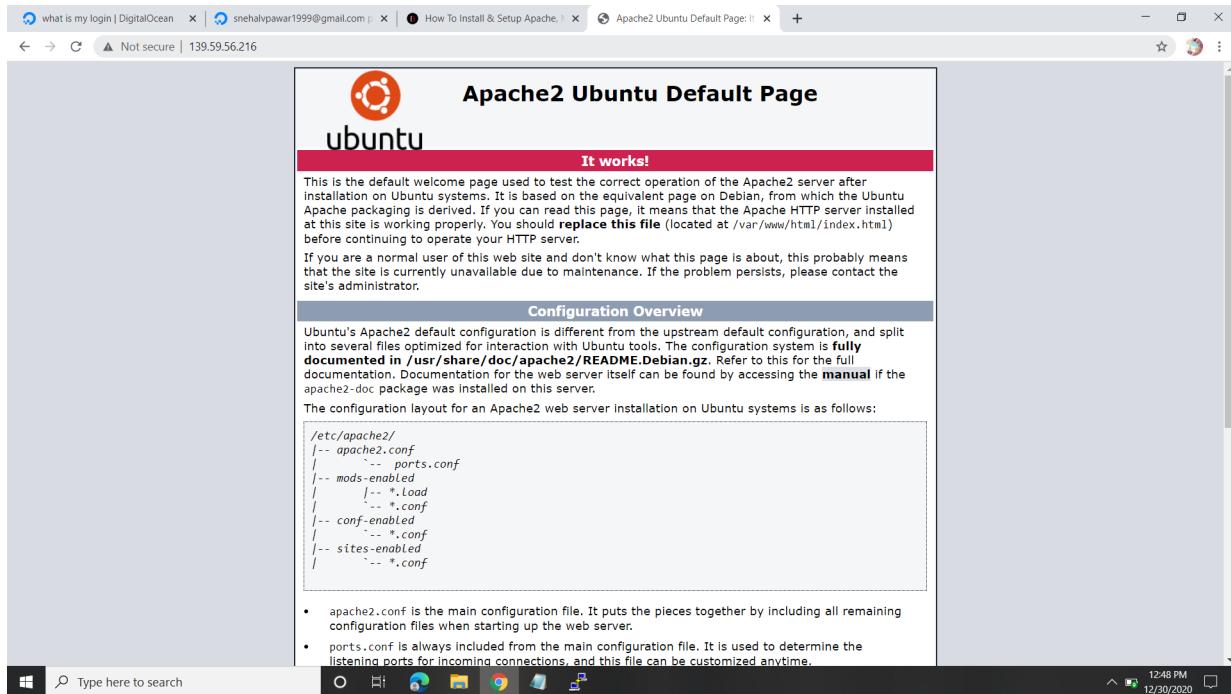


Figure 6.4: Apache Page

When we login to our PhpMyAdmin page it shows our hostname with default PhpMyAdmin name which is not secure. Anyone can hack our server if our host-name is known. So to avoid this problem, we secured our PhpMyAdmin page by changing it's name which is not known to other people. Then we installed zip/unzip file to extract or archive the files. Sometimes files get corrupt or misplaced while transferring from one location to another. So, to prevent our files we zipped the file before uploading somewhere and then transfer it by unzipping the folder, so no file will get corrupt. After installing zip/unzip file, we have enabled the .htaccess which will give the access of http to our website. we setup url of our website as 'https://www.sndtumit.xyz'. I can keep www directory or simply discard it, it's completely our choice. After that we configured our apache file to see it's actively running or not. After that we installed CURL, which will make our website more secure and disable the versions of LAMP we have used from other users. After that we installed SSL certificate on our server to make our website SSL certified. we don't have to pay to anything for that it's completely free. Now, the last process of Lamp server, that is setting up SSH key. This step is optional though, but we will recommend do not skip this. Because SSH key gives more secure authentication than one time password. So, It's better to setup the SSH key.

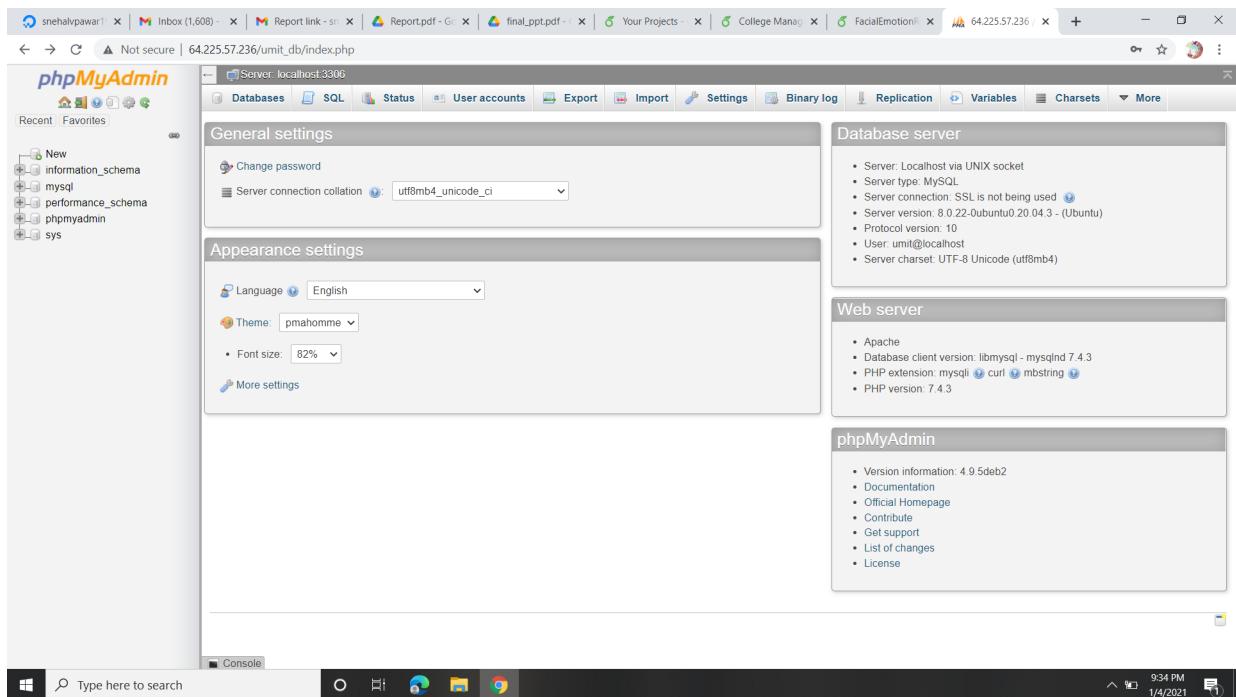


Figure 6.5: PhpmyAdmin (This is a Server homepage)

For setting up the key we had used PuTTY as I am on windows machine. The steps are listed below about key generation. Hence, our lamp server is installed.

## 6.2 Filezilla FTP

After LAMP installation, we have downloaded and installed Filezilla ftp client. Filezilla ftp client provides the interface where we can connect our server to your website. It's basically file transfer protocol which helps to upload, transfer files from local server to the host server.

After installing Filezilla, we hosted our site on it. For that we had uploaded our ssh key into ftp client. As we were using windows we have to use PuTTY configuration to generate your SSH key. Using PuTTY key- gen, we generated the key and saved it in local folder. Then, we uploaded that key file in ftp client. After that we created new site of our hostname which connect our site to the server. Hence, we have connected our website to the server.

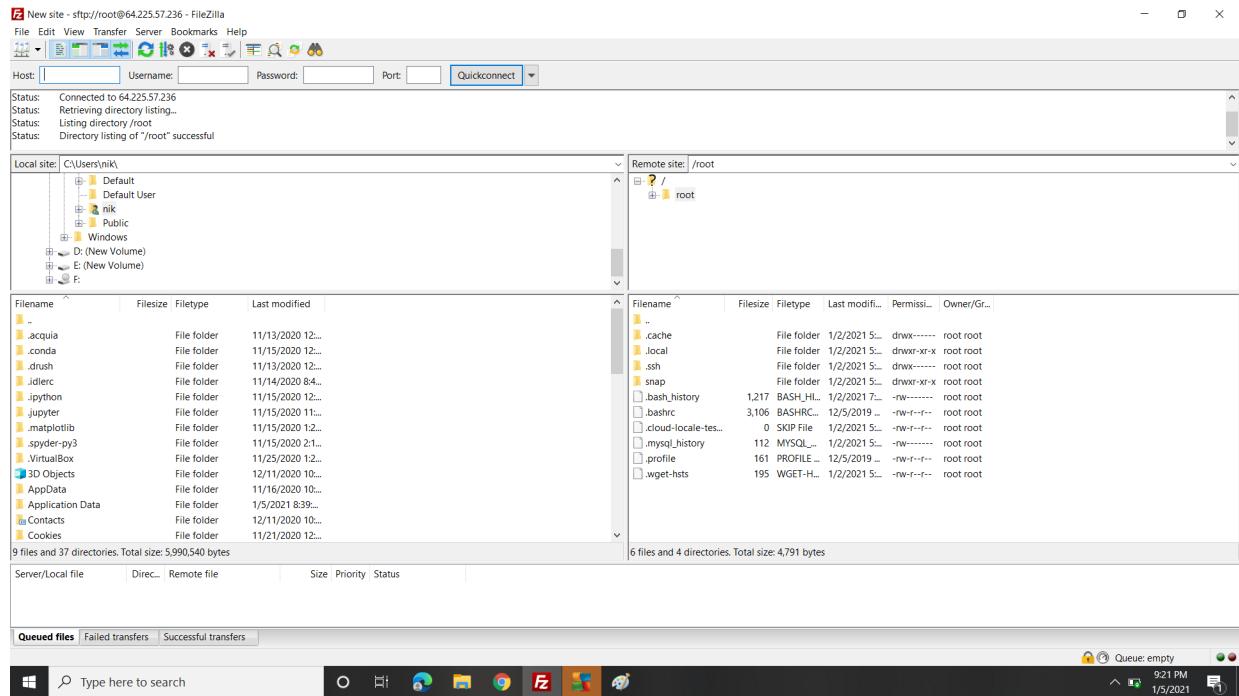


Figure 6.6: Filezilla ftp page

## 6.3 Drupal Installation

After that we have downloaded Drupal's latest version(8.9.1) from drupal.org. After downloading it, we named it as html and zip it. Then, we opened our ftp client, so we can connect it to the server and unzip that drupal folder into /var/www directory. After successfully uploading the folder, we go to our browser i.e. Google chrome and searched for our website. Then we got the drupal's installation page on searching our website. Then, we installed the Drupal and setup our site maintenance account. And after all the setup, our drupal website is ready to do the further functionalities. Hence, we have hosted our website using Drupal technology and Digital ocean platform.

### 6.3.1 Implementation of Drupal's functionalities

We have used Drupal 8 Parallax theme for the final portal design.(Fig.7.8) And the modules we have mentioned above. Drupal 8 Parallax theme is a multi-purpose, clean and mobile first responsive theme. This theme is contributed by Zymphonies team. It has many advanced features like custom slider, 15+ block regions, smooth animation, one page horizontal layout, multilevel drop-down menus, bootstrap v

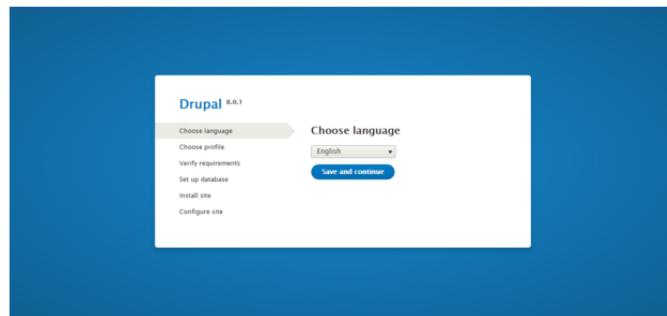


Figure 6.7: Installation of Drupal

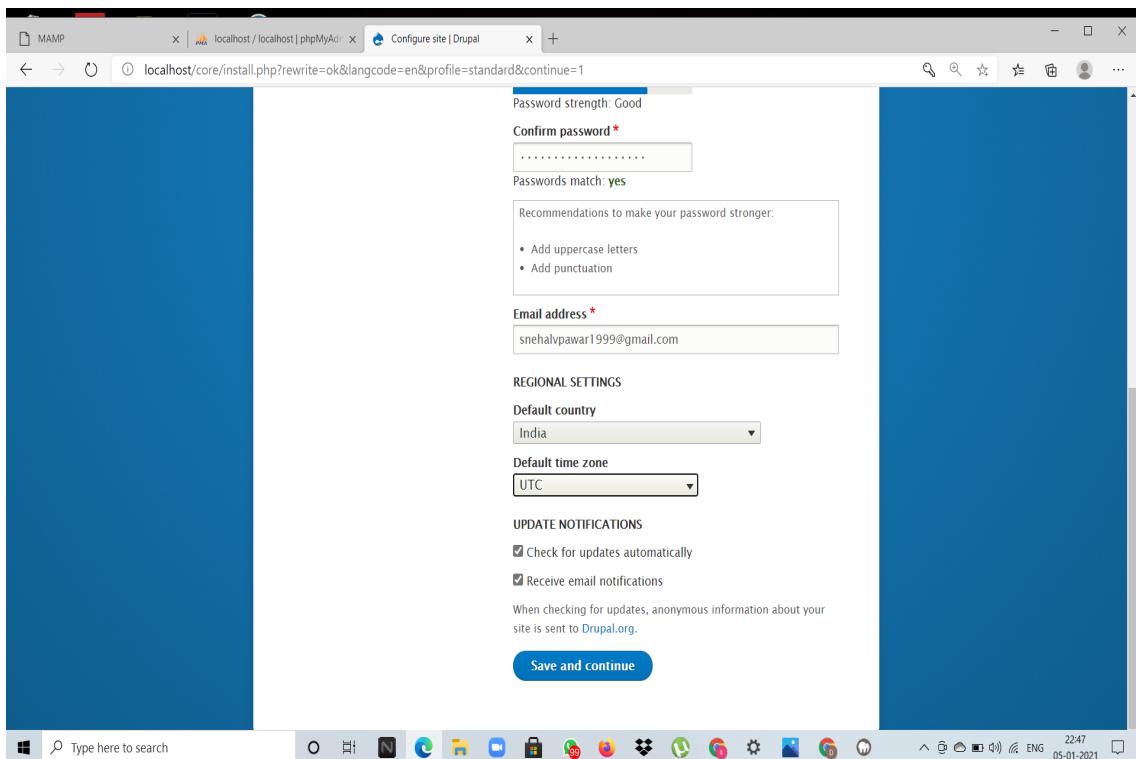


Figure 6.8: Drupal Page

3.1, classic color set etc. These are the snapshots of working of modules. we have also created contact forms such as feedback form where users can send feedbacks to admin. User can preview the message as well before sending it. Also they can keep a copy of it with them via mail. I have also created forums on the portal which will allow users to take a part in discussions which are posted by admins. They can also start their own thread or reply on active topics.

# Chapter 7

## Implementation of Various Modules

### 7.1 Webform Creation

After the installation of drupal platform, we have created a form using the webform module. Webform is the module for making forms and surveys in Drupal. Webform is the module for making forms and surveys in Drupal. For example, we can use the Drupal webform module to create surveys, contact forms, feedback forms and much more. After submission, this module will allow to send emails to the user and can send notifications to the administrator regarding the submission. There are options to view the submission, publish it as a node, page or block and export the results into a CSV file.

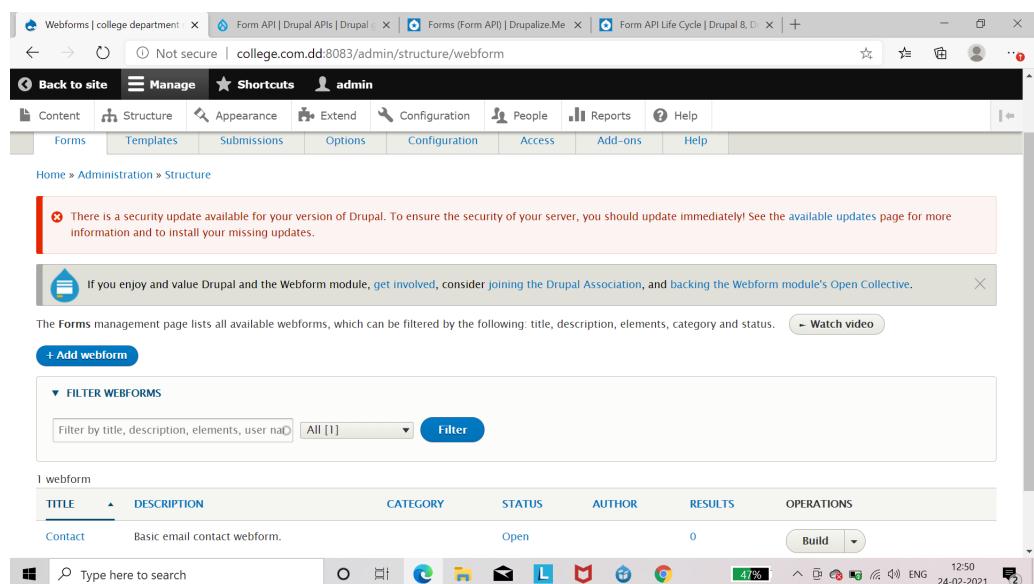


Figure 7.1: Webform Creation

The webform module and drupal is one of the most accessible form builders and content management applications on the market. Using webform we can build

- College applications

- Job applications
- Employee evaluations
- Event Registration
- Online Donations
- Appointments

To create a new Webform –

- Click on Add webform
- On clicking Add Webform a tab opens with title, description, category, and status.

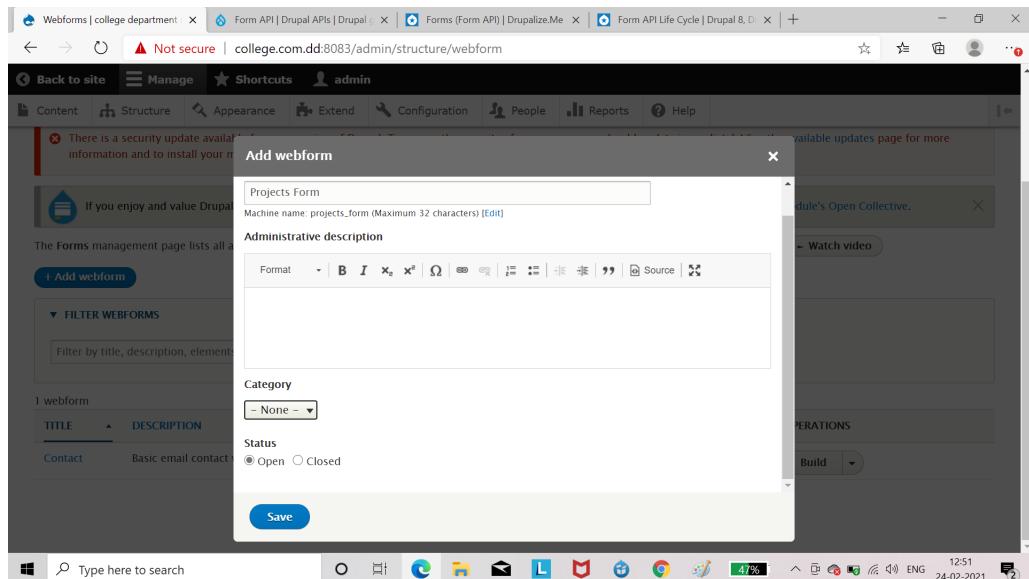


Figure 7.2: Creating a webform

- Add a title to the Webform and a short description about the webform.
- At the end, under Status, there are two options open and closed. This means if the status is ‘open’, the form is available to the user else it’s closed. After editing all the options click on Save.
- On clicking Save, a page opens with the title of the webform given
- To add the fields to the webform click on +Add element.
- On clicking Add element, there comes a popup with the list of fields that can be used in the

webform.

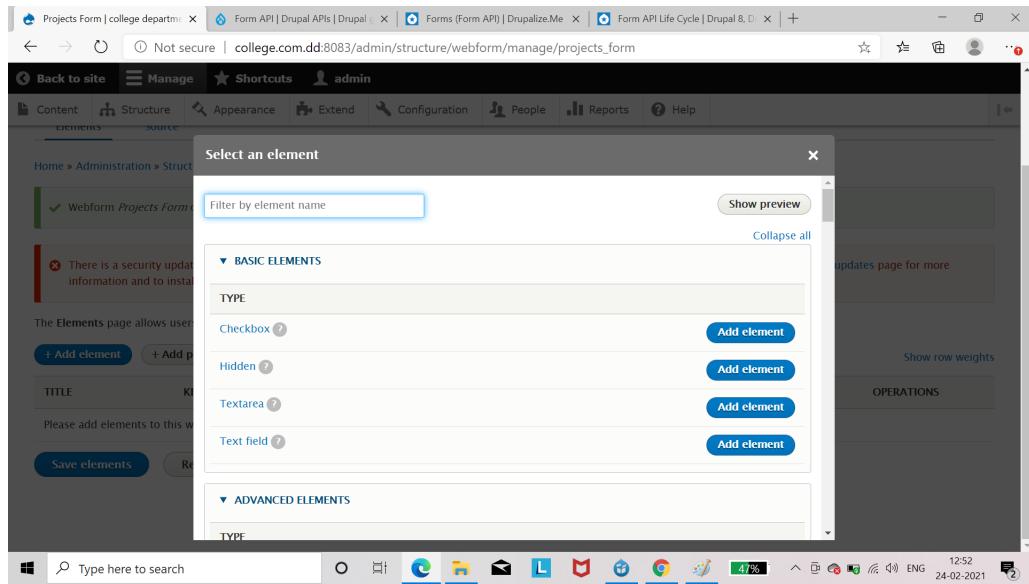


Figure 7.3: Adding element into the webform

- To preview the elements, click on Show Preview on the right top. To add the element, click on the Add element of the respective element. On clicking, the popup opens on the right side of the page.
- After adding the elements the form is created
- We can view the webform created by clicking on the View tab on the top. The Submit button is created automatically on adding an element to the webform.

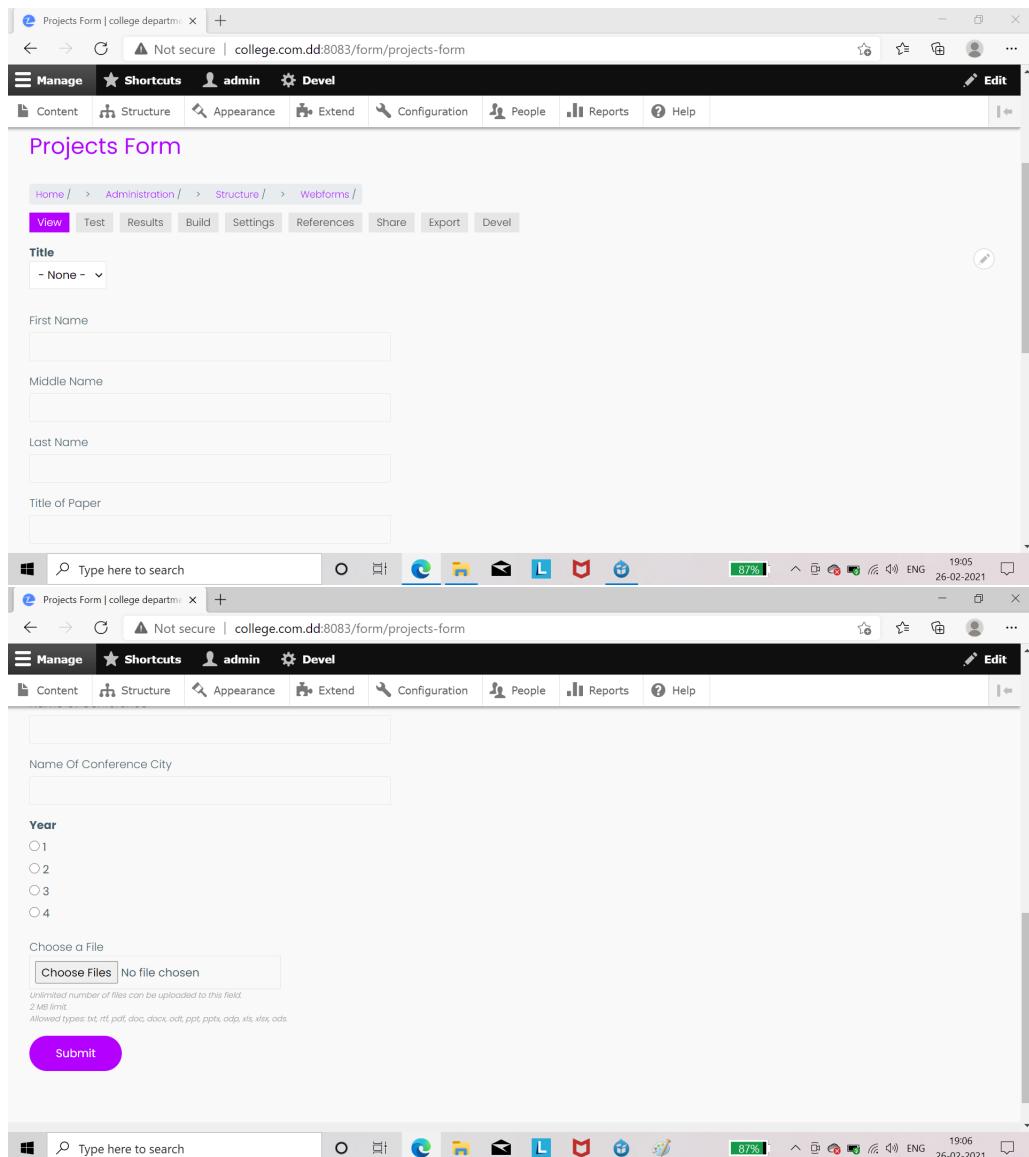


Figure 7.4: Project Form

- Test tab provides testing to the webform created. The values to the form fields are auto filled with random values.
- In the Result tab, the values of the submitted form can be viewed. There are three options under the result tab 1. List of all the submitted forms are under the submission tab.

The figure consists of three vertically stacked screenshots of a web application interface, likely from a CMS or form management system.

**Screenshot 1 (Top): Submission Details**

- URL: college.com.dd:8083/form/registration
- Section: "Webforms / registration"
- Submission Information:
  - Submission Number: 1
  - Submission ID: 2
  - Submission UUID: c6b2f25a-5330-4f3a-9000-0f56f5c3da70
  - Submission URI: /form/registration
- Timestamps:
  - Created: Fri, 02/26/2021 - 04:25
  - Completed: Fri, 02/26/2021 - 04:25
  - Changed: Fri, 02/26/2021 - 04:25
- User Info:
  - Remote IP address: 127.0.0.1
  - Submitted by: admin
  - Language: English
- Notes: Is draft: No, Webform: registration

**Screenshot 2 (Middle): Submission List**

- URL: college.com.dd:8083/admin/structure/webform/manage/registration/results/submissions
- Section: "Manage / registration"
- Filter Submissions:
  - Filter by submitted data and/or notes
  - Filter by submitted to: All [4]
  - Filter button
- Customize button
- Table of Submissions:
 

#	CREATED	SUBMITTED TO	USER	IP ADDRESS	NAME	COLLEGE NAME	YEAR	CHOOSE A FILE
4	Mon, 03/01/2021 - 14:29		admin	127.0.0.1	Ms Snehal Vilas Pawar	Dixisset	4	<a href="#">choose_a_file</a>
3	Mon, 03/01/2021 - 14:28		admin	127.0.0.1	Mr Lorem ipsum Oratione Lorem ipsum	Oratione	2	<a href="#">choose_a_file</a>
2	Sat, 02/27/2021 - 07:51	registration	admin	127.0.0.1	Mrs Snehal Vilas Pawar	UMIT	3	<a href="#">Snehal cv.pdf</a>
1	Fri, 02/26/2021 - 04:25		admin	127.0.0.1	Ms Hansika Shailesh Gupta	Usha Mittal Institute Of Technology	4	<a href="#">B_Adharcard.pdf</a>

**Screenshot 3 (Bottom): Download Options**

- URL: college.com.dd:8083/admin/structure/webform/manage/registration/download
- Section: "Manage / registration"
- Download Options:
  - Delimited text
  - HTML table
  - JSON document
  - YAML document

Figure 7.5: Project Form

2. Submitted results can be downloaded in four formats -Delimited text, HTML tables, JSON document or Yaml document under the Download tab.
3. Can clear the submitted forms in the clear tab of results

- We can also Assign a limit the forms submission

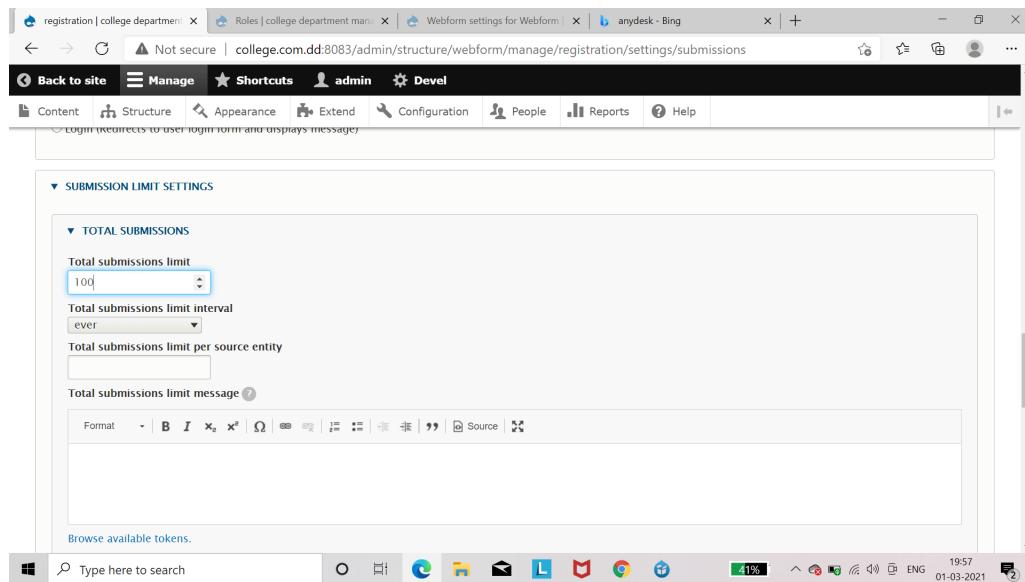


Figure 7.6: Submission form limit

- To view the submissions, then click on the Results tab. You can click on the Customize button to change the columns shown if required. You can also mark particular submissions with a star or add administrative notes.
- If u want to mail this form we go to the form setting and click on Emails/ Handlers and add email in this we fill the some basic information

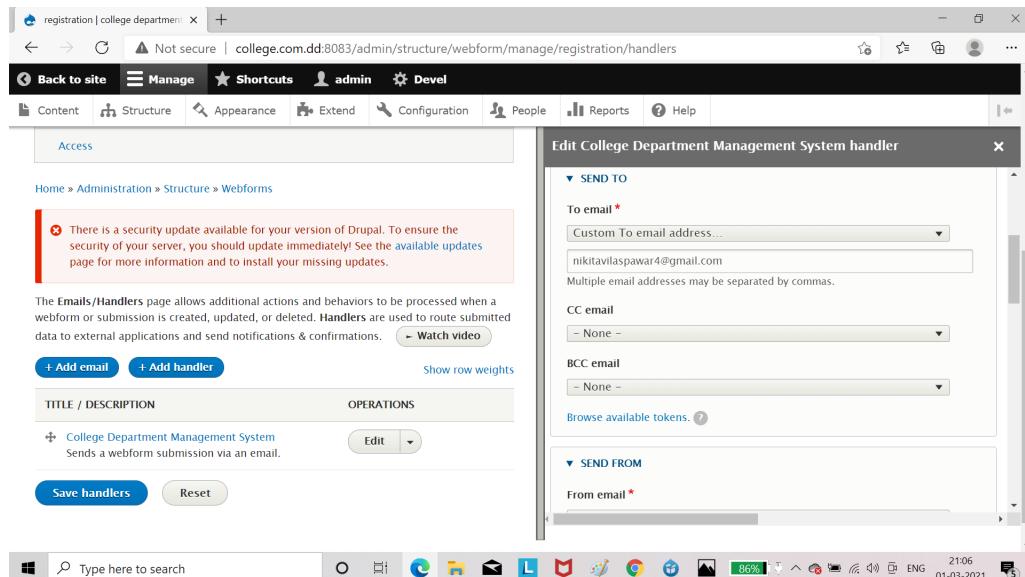


Figure 7.7: Adding email

## 7.2 SUPERFISH MODULE

The Superfish module makes use of the jQuery Superfish menu plugin, which is useful for multi-level drop-down menus. Superfish has more features than most dropdown menus. It supports touch devices and keyboard interaction. Drupal core provides easy ways to create multi-level drop-down menus with great customization opportunities. However, the Superfish module goes even further and brings menu interactivity to the next level. The Superfish offers great web accessibility enhancements, which are so important for Drupal 8's philosophy.

Superfish menus are available to screen readers. They are keyboard accessible and touch-screen compatible. These menus can automatically adapt their width to that of smaller screens. It's also possible to make multi-column sub-menus, aka megamenus. The Superfish module also supports RTL (right-to-left) writing.

Steps to install the module

- Download the Superfish library and extract it somewhere like sites/all/libraries/superfish so that the superfish.js will be located at <http://example.com/sites/all/libraries/superfish/superfish.js>
- Download and extract the Superfish module in /sites/all/modules.
- Go to the Modules section of your Drupal administration back-end and enable "Superfish".

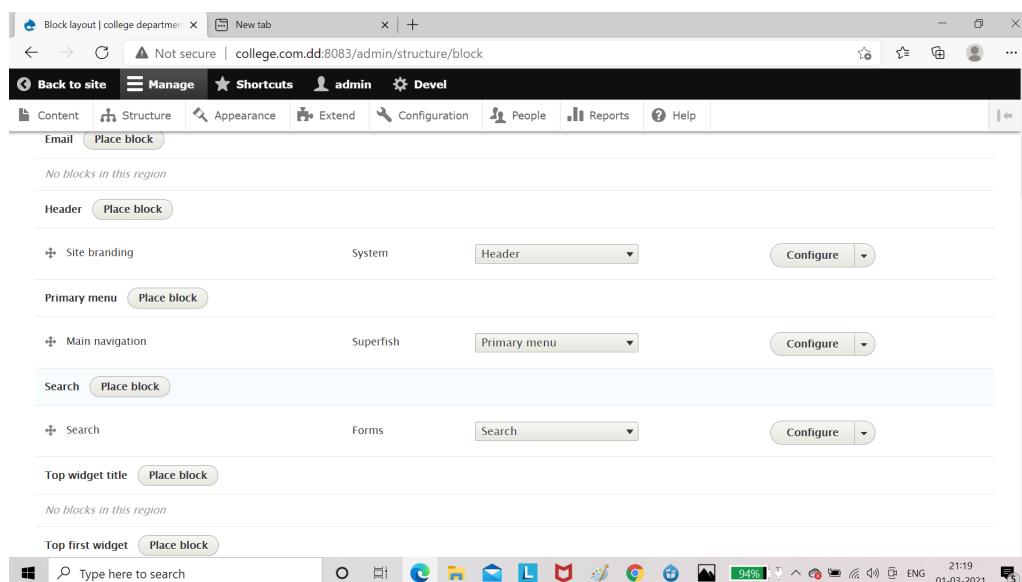


Figure 7.8: Install and placed Superfish Module

- Go to your blocks administration page; You will see several blocks called Superfish”, move any of them to a region, use the ”Configure” link of the block to configure it accordingly to your needs, and save.

### Drop -Down using Taxonomy

Taxonomy, a powerful core module, allows you to connect, relate and classify your website’s content. In Drupal, these terms are gathered within ”vocabularies”. The Taxonomy module allows you to create, manage and apply those vocabularies. We used this module to create drop down menus in our project

The vocabularies we created in the project are:

- ABOUT US
- ACADEMICS
- PROJECTS

Taxonomies are a way of grouping our content into some meaningful groups. The better way to say this is that there are basically categories and tags. Drupal comes with taxonomy and you can make different types of taxonomies for different types of content. We can group the content by taxonomies. By clicking on taxonomy we can create new taxonomy, which Drupal calls VOCABULARY.

Steps to create taxonomy:

- Click on Structure
- Click on Add vocabulary
- Add the name and click on Save
- For adding terms to the vocabulary click on Add terms
- Fill the fields
- Add URL alias of the same name of vocabulary
- Click on Save
- We can repeat this steps multiple types depending on the number of terms we wish to add to the vocabulary.

The screenshot shows the Drupal Taxonomy administration interface. At the top, there's a message about a security update available for the server. Below it, a table lists four vocabularies: 'ABOUT US', 'ACADEMICS', 'PROJECTS', and 'Tags'. Each row has an 'Edit' button under the 'OPERATIONS' column. The 'Tags' row notes that tags are used to group articles on similar topics. The bottom of the screen shows a search bar and a taskbar.

VOCABULARY NAME	DESCRIPTION	OPERATIONS
ABOUT US		<a href="#">List terms</a>
ACADEMICS		<a href="#">List terms</a>
PROJECTS		<a href="#">List terms</a>
Tags	Use tags to group articles on similar topics into categories.	<a href="#">List terms</a>

Figure 7.9: Creating Drop-down Menu

The screenshot shows the Drupal menu management interface. It lists various menu items under the 'Main navigation' menu, each with an 'Edit' button. The menu items include 'Home', 'ABOUT US' (which further branches into 'ABOUT SNDT', 'ABOUT UNIT'), 'PRINCIPAL's DESK', 'ACADEMICS' (branching into 'Curriculum & Syllabus'), 'FACULTY', 'LIBRARY', 'IMPORTANT DOCUMENTS', and 'MANDATORY DISCLOSURE'. The bottom of the screen shows a search bar and a taskbar.

Figure 7.10: List of dropdown menu

This is the page that is created by using Taxonomy.

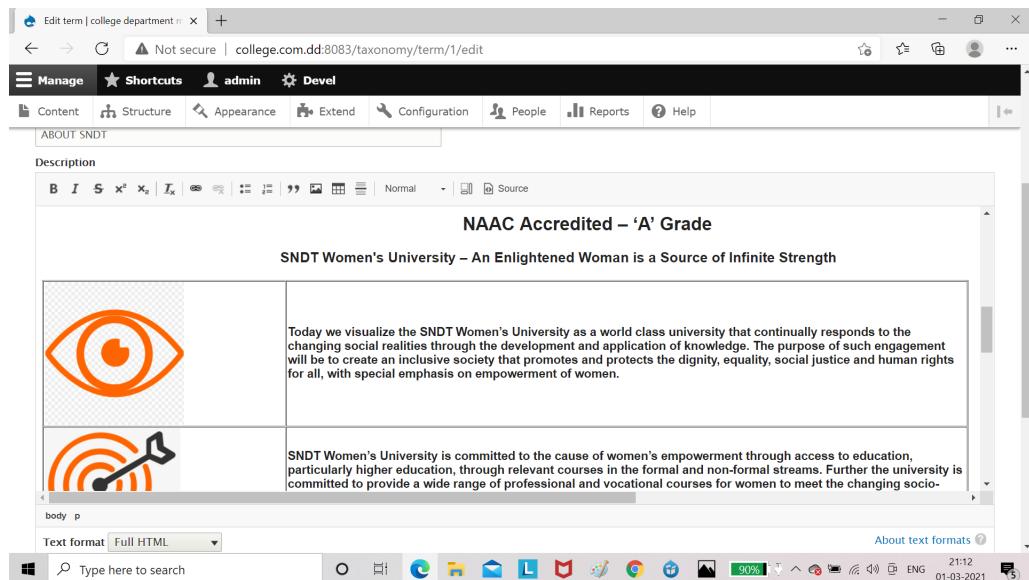


Figure 7.11: Inside a Drop Down Menu

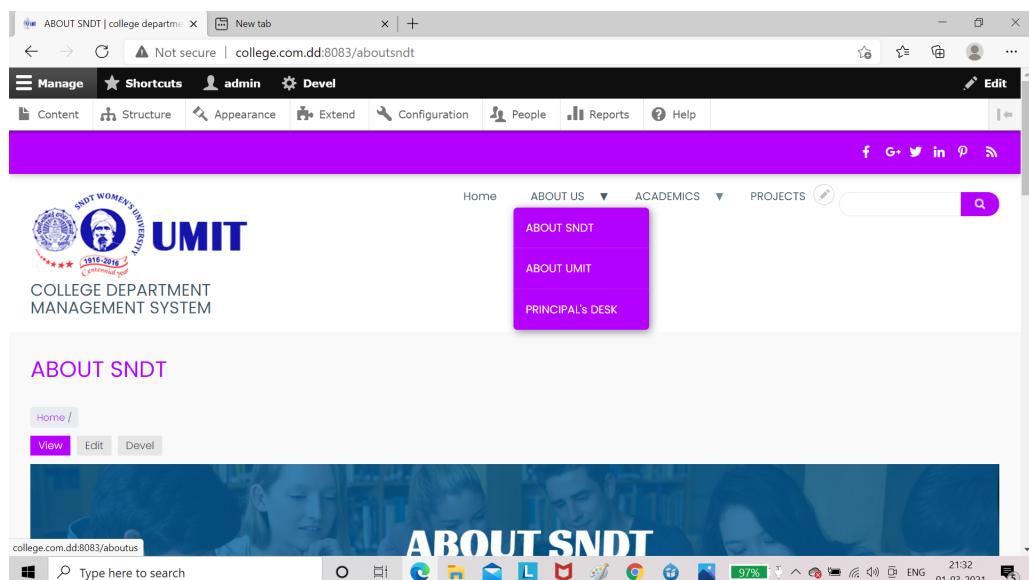


Figure 7.12: About Us Page

# **Chapter 8**

## **Conclusion and Future scope**

### **8.1 Conclusion**

This college system assists in modifying the existing system to site based system. This is a paperless work. It can be monitored and controlled remotely. It reduces the manpower required. It provides accurate information always. Malpractice can be reduced. All gathered and extra information can be saved and can be accessed at any time. The data which is stored in the project helps in taking intelligent and quick decisions by the management. So it is better to have a Web-Based Information Management system. The system also saves valuable time and reduces the huge paper work of staff. But before using Drupal CMS, working of drupal should known to the developer. Without any prior knowledge about Drupal, it's bit difficult to work with it.

### **8.2 Future Scope**

- With Drupal's load balancing functionality, we can work with large databases without any difficulty.
- We can add chatbot in our system later to make it more easier.

# **Chapter 9**

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