



Final_Report

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CHAPTER :1.Software Specification

1. Introduction

1.1 Purpose

The purpose of this project is to build a dynamic web content management system to manage monthly news in university (nu-newsletter) which will ease the news management team. It will also have updates from Centre of Industry Collaboration, NIIT UNIVERSITY, updates on books from Library and Resource Centre, contact numbers of all faculty members and other important contacts. There will be recent mess menu and other useful information will be integrated depending on feasibility.

1.2 Document Conventions

- REQ: Requirement in System.
- SRS: Software Requirement Specification.
- CMS: Content Management System.
- CIC: Centre of industrial collaboration
- aNUkriti: NU-newsletter of NIIT University
- XAMPP: Stands for x-os, Apache, MySQL, Php, Perl. (X-os means it can be used for any operating system.)
- UI: User interfaces.
- CRUD: Create, Read, Update and Delete

1.3 Intended Audience and Reading Suggestions

- System Developers (group members).
- Course Instructor.
- Coordinator of Nu-newsletter Team

In general, reader can first go through the table of content provided and directly go to their section of interest in this SRS.

System Developers and Course Instructor are recommended to go through whole document in sequence in order gain complete knowledge regarding the project.

1.4 Product Scope

This software system will be an online web content management system for NIIT UNIVERSITY to manage monthly news in university (nu-newsletter). More specifically to design and develop a powerful CMS which shall cater the monthly news, updates on books from Library and Resource Centre, contact numbers of all faculty members and other important contacts of the university.

The system shall have features such as Special Events, Campus News, Theme (in Quarterly issues), Expressions, Achievements Research, Faculty Research, Recruitment and Obituary.

The system will only contain legit information related to NIIT UNIVERSITY.

1.5 References

- IEEE Software Requirement Specification template.
- <https://nunewsletter.github.io>
- <https://en.wikipedia.org>
- List of requirements from coordinator of nu-newsletter.
- UML version 2.0 manual.
- Class Lectures

2. Overall Description

2.1 Product Perspective

This project is meant to serve as a platform to enable news management team of NIIT UNIVERSITY to bring their content on digital platform conveniently. Goal of this project is to develop a replacement to the existing static website used by aNUkriti, making it more users friendly and dynamic.

2.2 Product Functions

Search, upload, update and remove functions will be there with following tabs:

- Special Events
- Campus News
- Theme (in Quarterly issues)
- Expressions
- Achievements
- Research
- Faculty Research
- Recruitment
- Obituary
- Meet the NU NL Team

2.3 User Classes and Characteristics

Students

Students are the primary user of the system. They will access information posted by news management teams and also get updates on new books arrivals from Library and Resource Centre, contact numbers of all faculty members and other important contacts.

Faculties and Other staff

Faculties and other staffs can read news and current affair regarding the university.

System Admin

System administrators are primarily responsible for maintaining the system and providing necessary information to the system. They will post news and making appropriate updates for readers.

2.4 Operating Environment

Any device with internet connection and browser;

- Windows 7
- Windows 8
- Windows 10
- Mac OS X
- Linux
- Mobile device

2.5 Design and Implementation Constraints

Design Constraints

1. The communication between the portal software and the database will be in SQL.
2. The system layout will be produced with HTML/CSS.
3. The product will be written in PHP and its applications.
4. The source code must follow the coding conventions of PHP.

User Interface Constraints

Using this system is fairly simple and intuitive. A user familiar with basic browser navigation skills should be able to understand all functionality provided by the system.

Software Constraints

The system will be intended to run on Firefox, Google Chrome and Internet Explorer. The system may run on other browsers as well.

Hardware Constraints

The system should work on most desktop, laptop and mobile devices which support JavaScript, HTML5 and other technology used for web.

Operational Constraints

The system is limited by its operating server in terms of the maximum number of users it can support at a given time.

2.6 User Documentation

- User manual (pdf)
- Tutorials for user
- Online helps

2.7 Assumptions and Dependencies

The system will be mostly developed in PHP and hosted in server. So, the system should run on cross platform. System should work as long as hosted server is not down.

3. External Interface Requirements

3.1 User Interfaces

The system shall provide a very intuitive and simple interface to the user and the administrator, so that the user can easily navigate through pages to update themselves with current affairs in the university.

3.2 Hardware Interfaces

a) Server side

The system will be hosted on a web server which is listening on the web standard port, port 8080 or will be decided by later.

b) Client side

Monitor screen – the software shall display information to the user via the monitor screen

Mouse – the software shall interact with the movement of the mouse and the mouse buttons.

The mouse shall activate links, command buttons and select options from menus.

Keyboard – the software shall interact with the keystrokes of the keyboard.

3.3 Software Interfaces

- The user inputs data via the web server using HTML forms
- The web server executes the PHP as a module and PHP script retrieves the post data if available.
- The web server receives information back from the PHP script.
- The web server displays a HTML page as result to the end-user.

3.4 Communications Interfaces

- Computer System with internet Connection.
- Web Browser.

4. System Features

This section includes various features that specify all the fundamental actions of the software system.

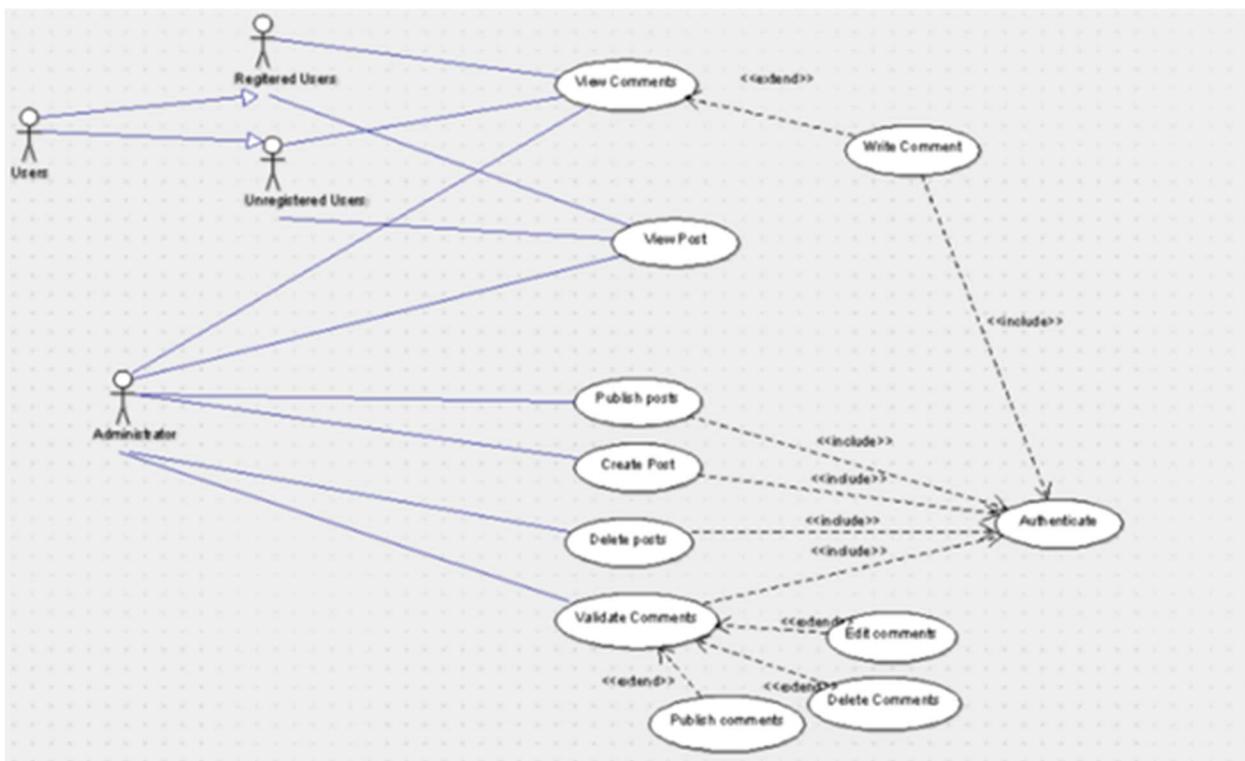
4.1 System Features 1

This section includes various features that specify all the fundamental actions of the software system.

4.1.1 Description and Priority

The software system provides a function to manage NU Newsletter. The users, either students or faculties are end-users of the system and will be given medium priority. The administrator account type will grant “super user” for the purpose of managing the software system. The administration function of the software system is of high priority.

4.1.2 Stimulus/Response Sequences



The above use case diagram indicates the stimulus/response sequence of the system. The depicted actors have their individual actions which will be in the system and on clicking particular tabs have their individual responses.

4.1.3 Functional Requirements

REQ-1: HOME PAGE

In the system, the user will first be redirected to home page. Home page will have recent posts, recent comments on the posts. It will also have different tabs to navigate through the other system features.

REQ-2: SPECIAL EVENTS

This page will contain upcoming and past special events organized by the university. This section will also contain information about ongoing special events.

REQ-3: CAMPUS NEWS

This section will contain overall campus related news with individual categories specified which will help readers get updated about University's current affairs.

REQ-6: EXPRESSIONS

This section will be purely made for the exhibition of various artworks and articles composed by students.

REQ-7: ACHIEVEMENTS

This section of the system will display information on achievements accomplished by students and faculties.

REQ-8: RESEARCH

This section will highlight on researches carried by Students and Faculties.

REQ-9: RECRUITMENT

This section will contain information on campus recruitment for students by various IT sectors and companies.

REQ-10: OBITUARY

This section will report the recent mis happening in the campus, typically along with an account of the person's life.

REQ-11: OUR TEAM

This section will contain team members including coordinator information along with their social handles.

REQ-12: SEARCH BAR

Users can search various articles and news according to their needs by simply clicking on search bar.

REQ-13: ADDING POSTS

This feature is for admin only. In this the admin can add and publish news.

REQ-14: CATEGORIES

In this section the admin will categorize various news according to types of the news specified.

REQ-15: ALL POSTS

This section will be entirely for CRUD(Create, Read, Update, Delete) purpose. Here, Admin can also filter the current posts and edit it according to the needs.

REQ-16: COMMENTS

Comments section will contain an Input field in which user can input their thoughts about the news in the context.

REQ-17: USEFUL CONTACTS

This section will display all essential contacts information required for students and faculties such as taxi driver contact, warden contact etc.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

NU-News and Updates requires a system with decent internet connection and browser. Performance depends mostly on speed of internet and number of people accessing the server.

5.2 Safety Requirements

To ensure no data loss in case of error in database, backup should be taken periodically. Admin access should not be shared with multiple user or admin access should be control.

5.3 Security Requirements

1. 1. The system should be hosted in secure server and domain name should be secured.
2. 2. Passwords will be saved encrypted in the database in order to ensure the user's privacy.
3. The system will be protected against vulnerabilities such as SQL injection attacks or JavaScript injections.

5.4 Software Quality Attributes

Intuitive controls make adding product features, images and descriptions easy. Conveniently publish of content for mobile phones and make it easy for mobile users to find.

AVAILABILITY: The system should be available at any time for news viewers.

CORRECTNESS: The system should not change or manipulate information posted by admin

MAINTAINABILITY: The admin should be able to maintain the system by adding, updating and deleting data on system.

USABILITY: The system should be very useful to user and as well as end user.

5.5 Business Rules

Only legit news or information should be posted in the system.

Appendix A: Glossary

- Software Requirement Specification: is a description of a software system to be developed.

- **Content Management System:** A content management system manages the creation and modification of digital content. It typically supports multiple users in a collaborative environment.
 - **XAMPP:** a software used to host sites locally
-
- **User interfaces:** is the space where interactions between humans and machines occur.

CHAPTER :2.Software Design Specification

1. Introduction

The Software Design Document is a document to provide documentation which will be used to aid in software development by providing the details for how the software should be built. Within the Software Design Document are narrative and graphical documentation of the software design for the project including use case models, sequence diagrams, collaboration models, object behaviour models, and other supporting requirement information.

1.1 Purpose of this document

This document will define the design of the one runway simulator. It contains specific information about the expected input, output, classes, and functions. The interaction between the classes to meet the desired requirements are outlined in detailed figures at the end of the document.

1.2 Scope of the development project

We describe what features are in the scope of the software and what are not in the scope of the software to be developed.

In Scope:

- a. Website for the news taking place in NIIT University.
- b. The important events taking place in NIIT University will be published on the website.
- c. Placement news of students in NIIT University will be available in the website.

Out of Scope:

- a. The news/events taking place in India.

1.3 Definitions, acronyms, and abbreviations

IEEE: Institute of Electrical and Electronics Engineers

SDS: Software Design Specification

1.4 References

1.4.1 R. S. Pressman, Software Engineering: A Practitioner's Approach, 5th Ed, McGraw-Hill, 2001.

1.4.2 IEEE SDS template

1.5 Overview of document

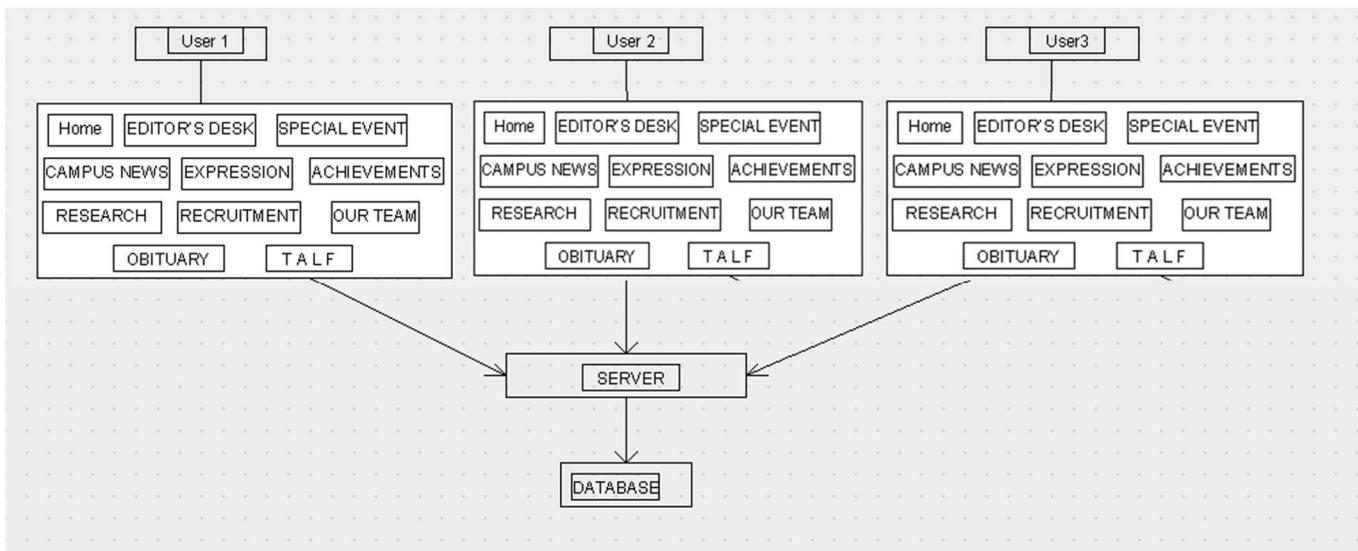
This SDS is divided into seven sections with various sub-sections. The sections of the Software Design Document are:

1. **Introduction:** describes about the document, purpose, scope of development, project definitions, and abbreviations used in the document.
2. **Conceptual Architecture/Architecture Diagram:** describes the overview of components, modules, structure and relationships and user interface issues.
3. **Logical Architecture:** describes Logical Architecture Description and Components.

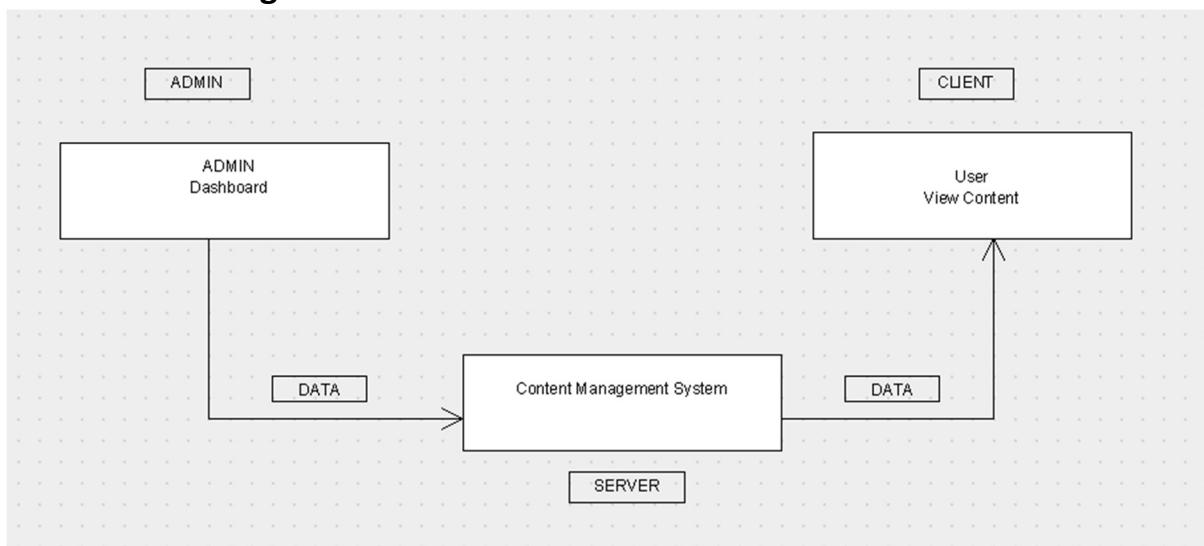
4. **Execution Architecture:** defines the runtime environment, processes, deployment view.
5. **Design Decisions and Trade-offs:** describes the decisions taken along with the reason as to why they were chosen over other alternatives.
6. **Pseudocode for components:** describes pseudocode, as the name indicates.
7. **Appendices:** describes subsidiary matter if any.

2. Conceptual Architecture/Architecture Diagram

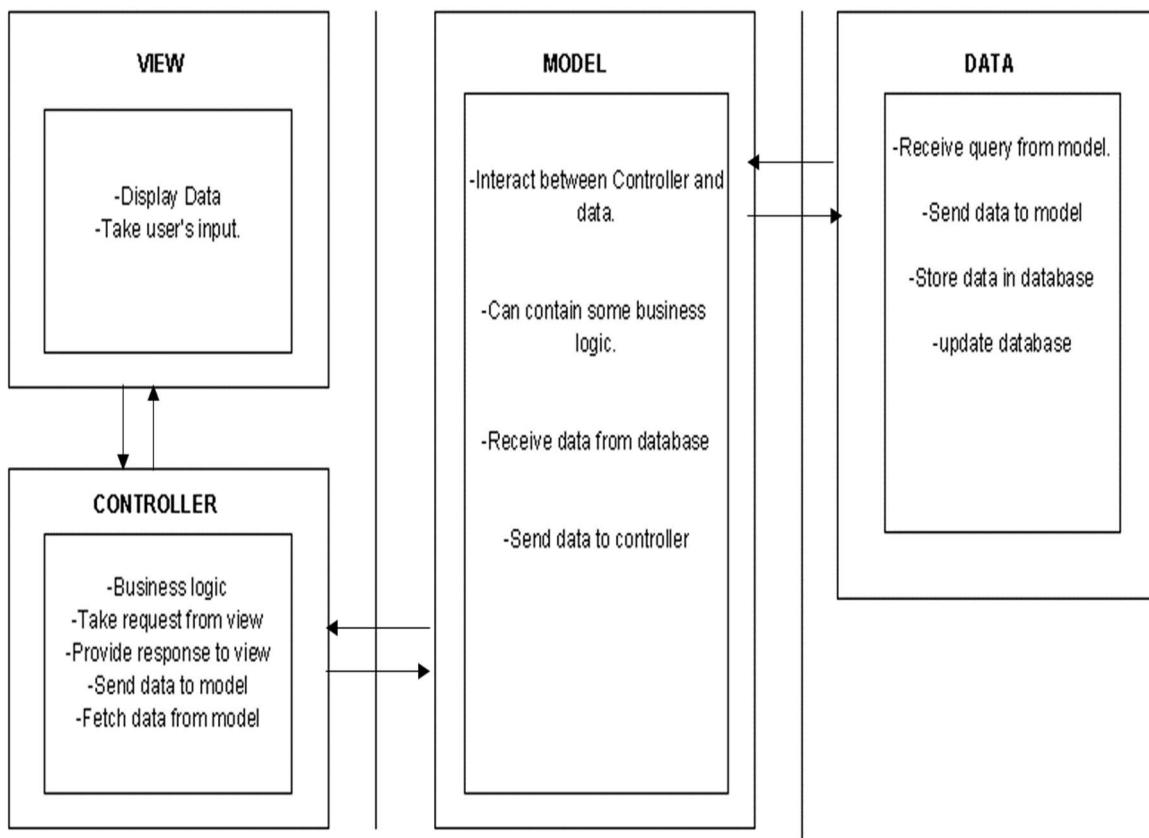
Architecture Diagram 1:



Architecture Diagram 2:

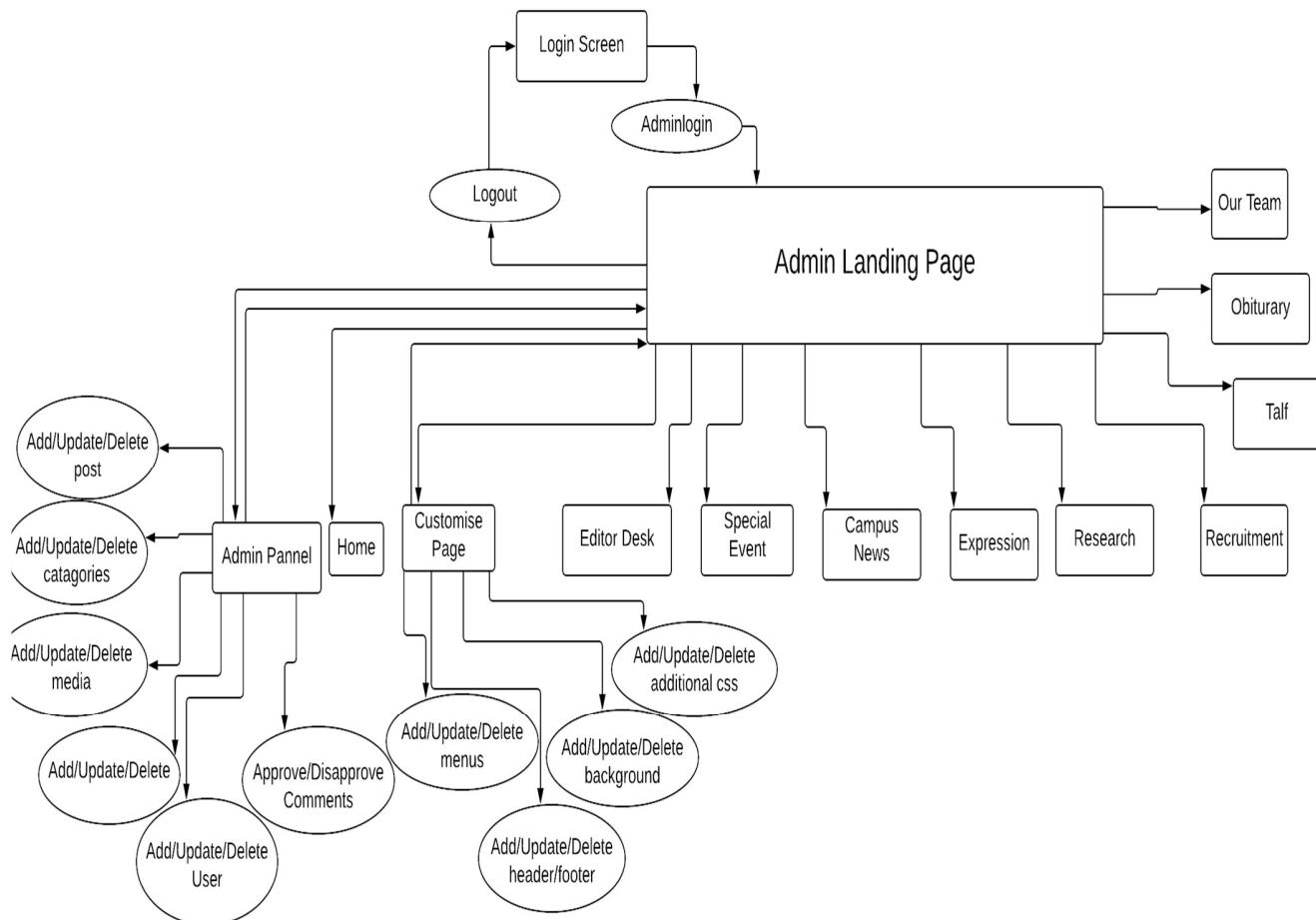


2.1 Overview of components



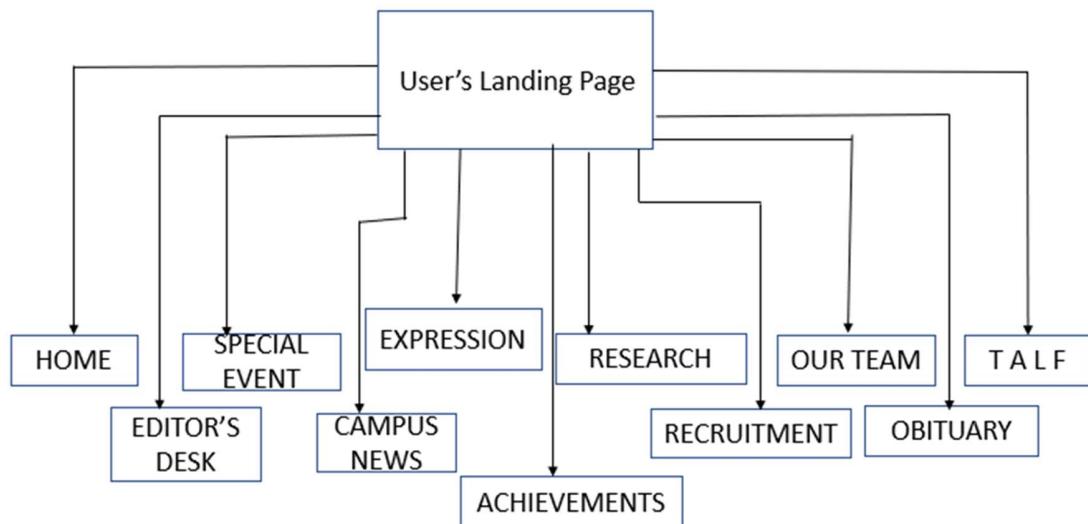
2.2 Structure and relationships

2.2.1 Admin's Side



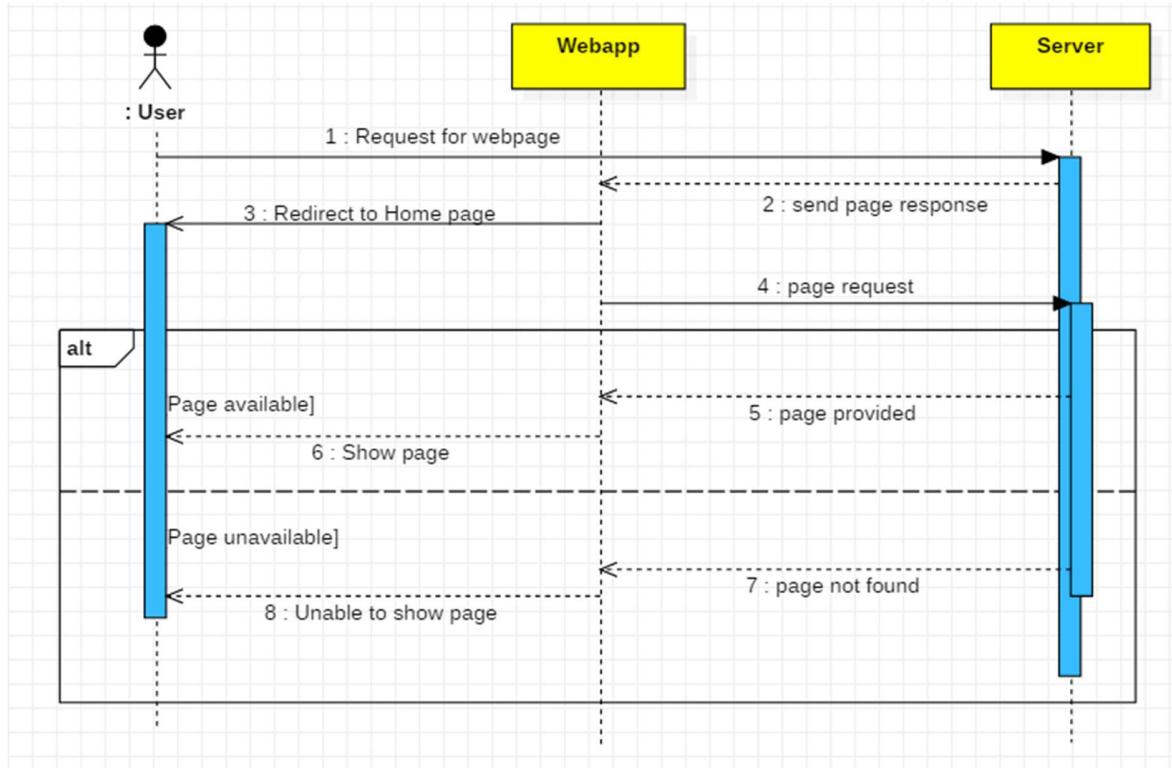
Note: User can shift between varies tab's directly.

2.2.2 User's Side

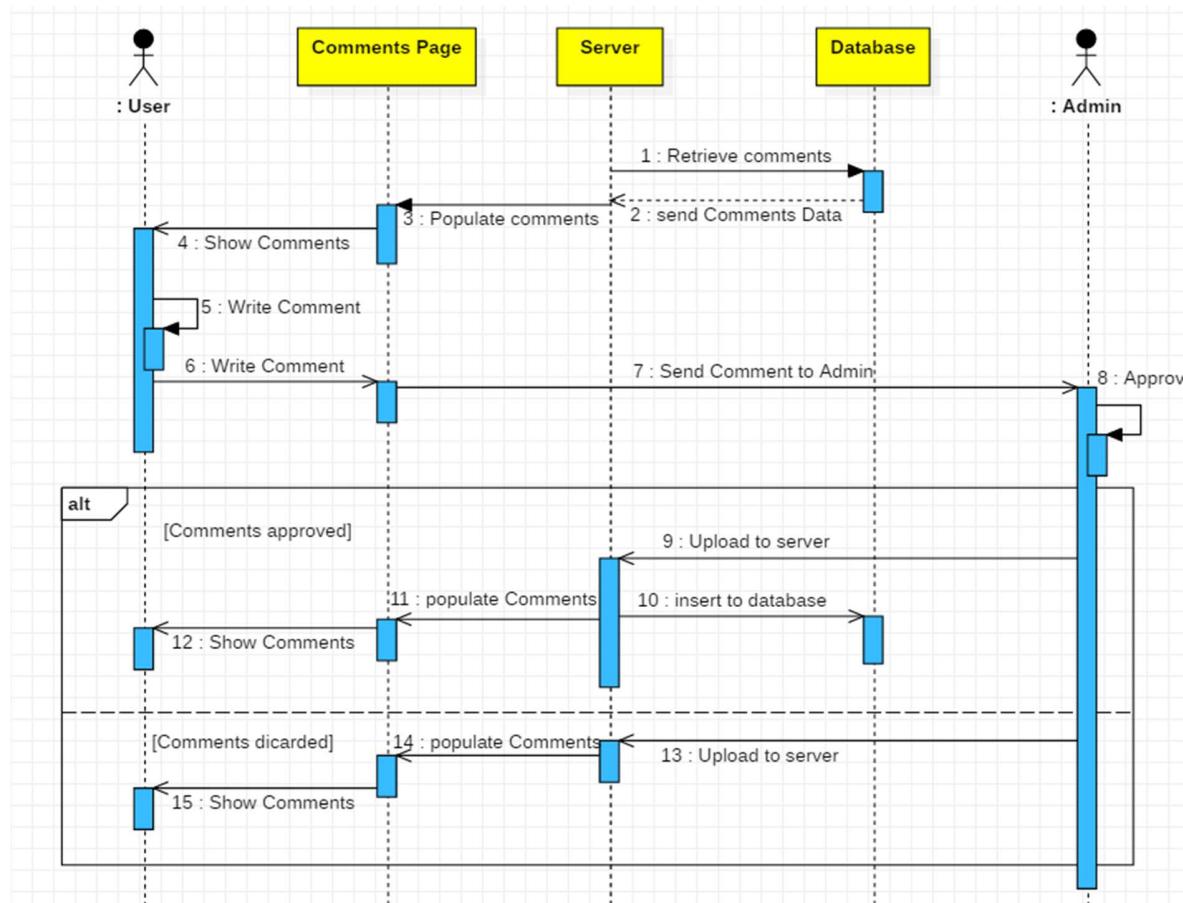


3.Sequence Diagrams:

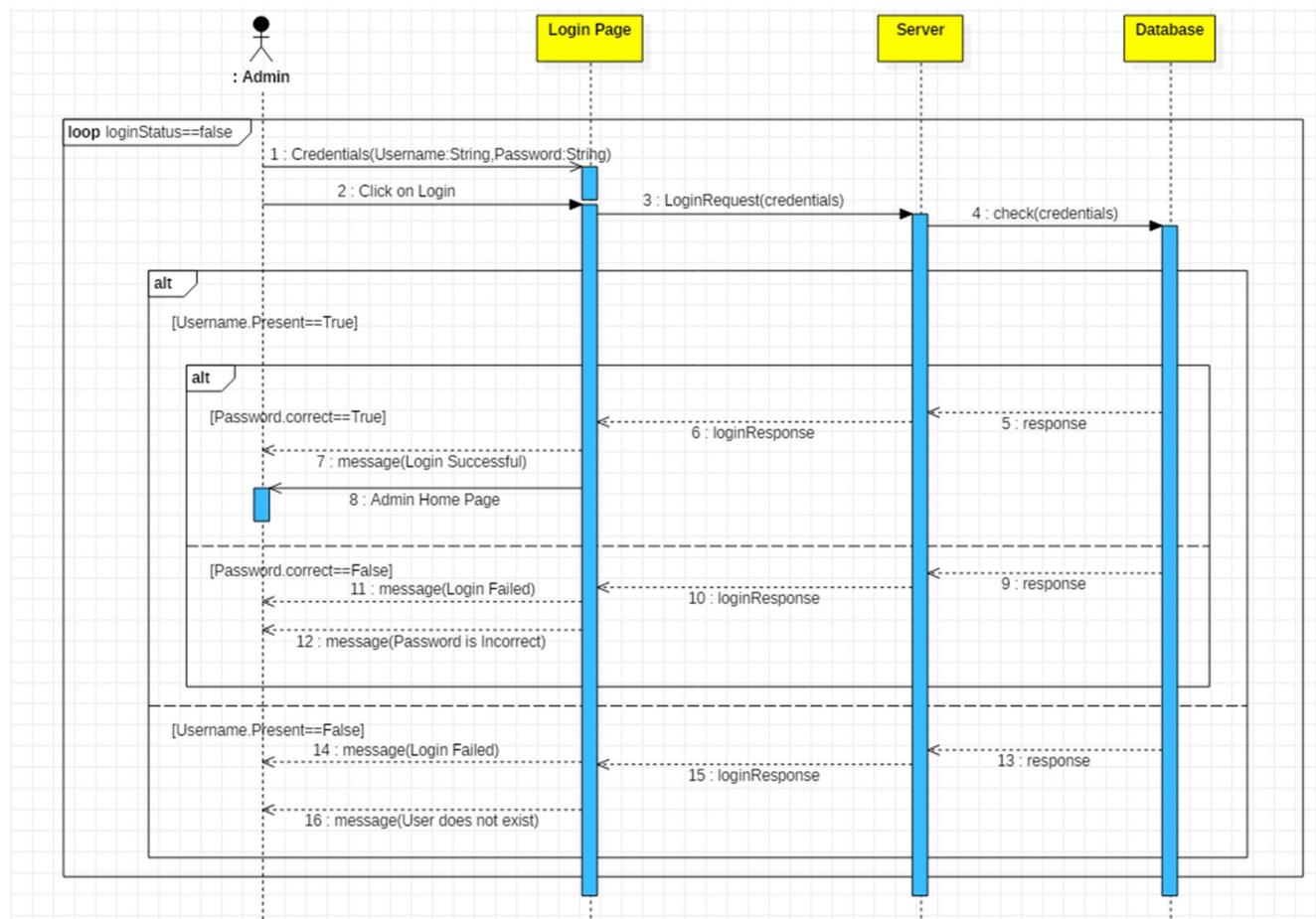
3.1 Access website:



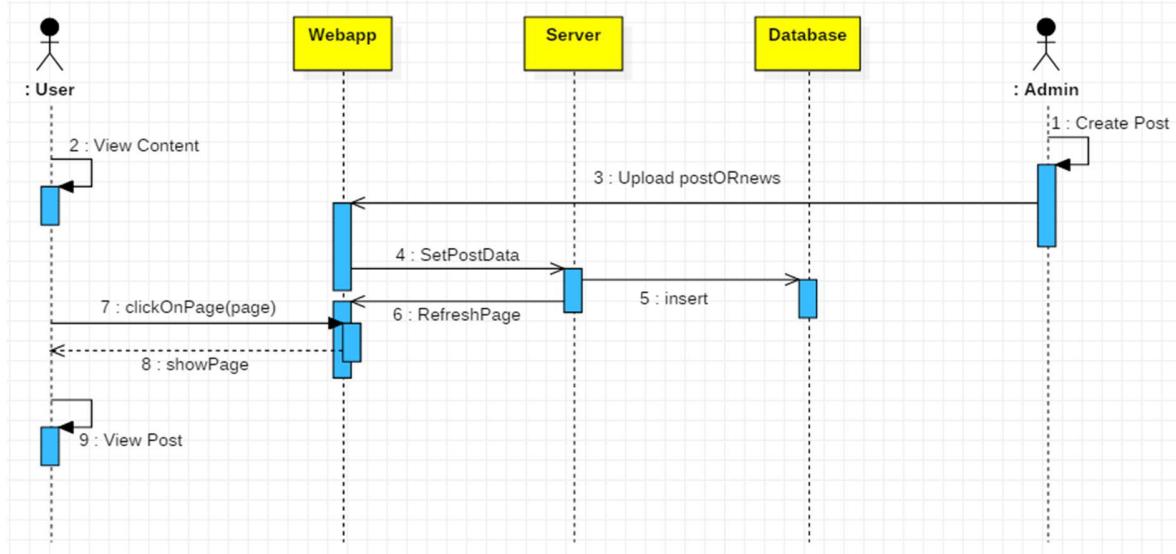
3.2 Comments validation:



3.3 Admin login:

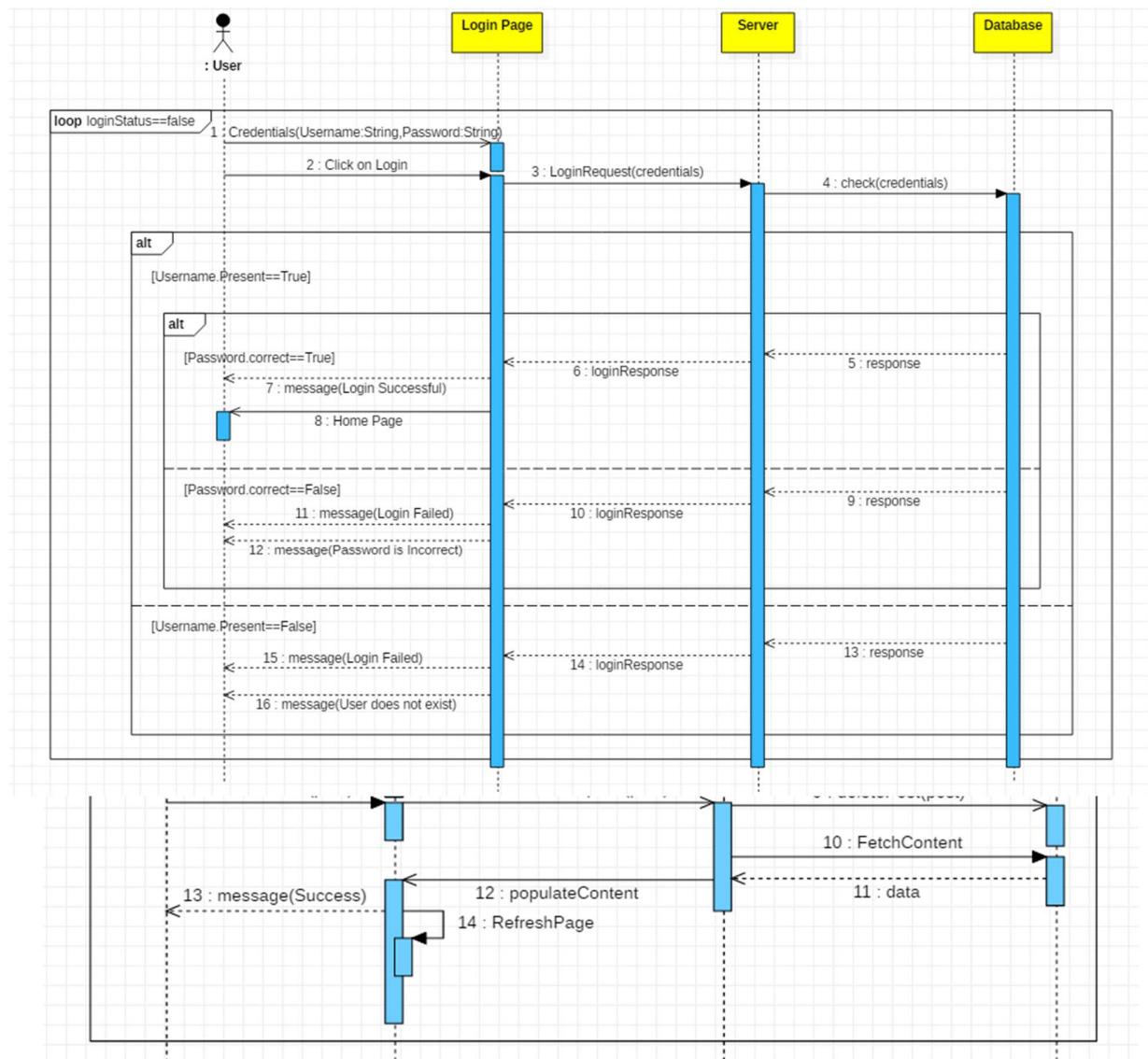


3.4 Create Post:

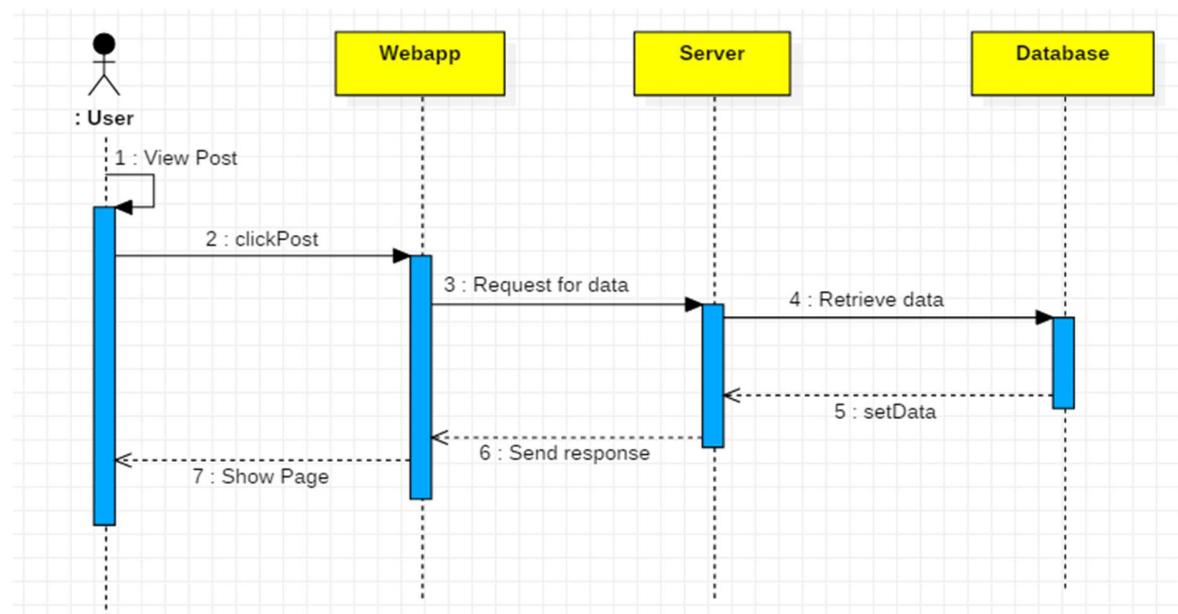


3.5 Delete post:

3.6 User Login:



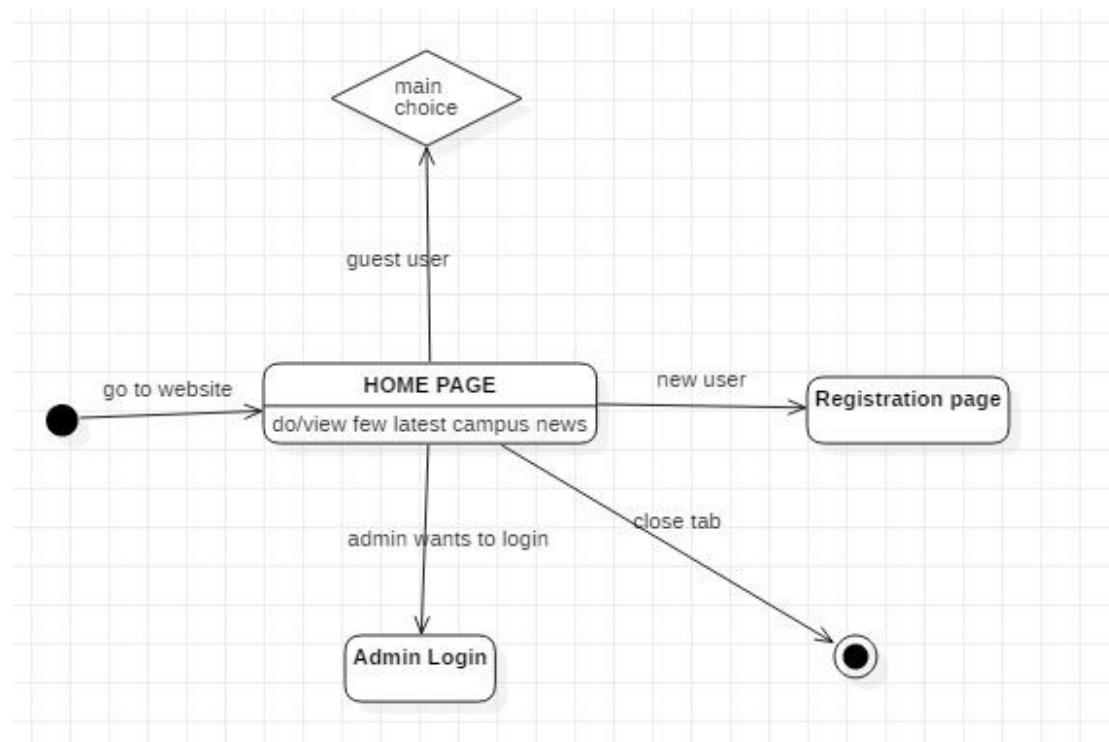
3.7 View Posts:



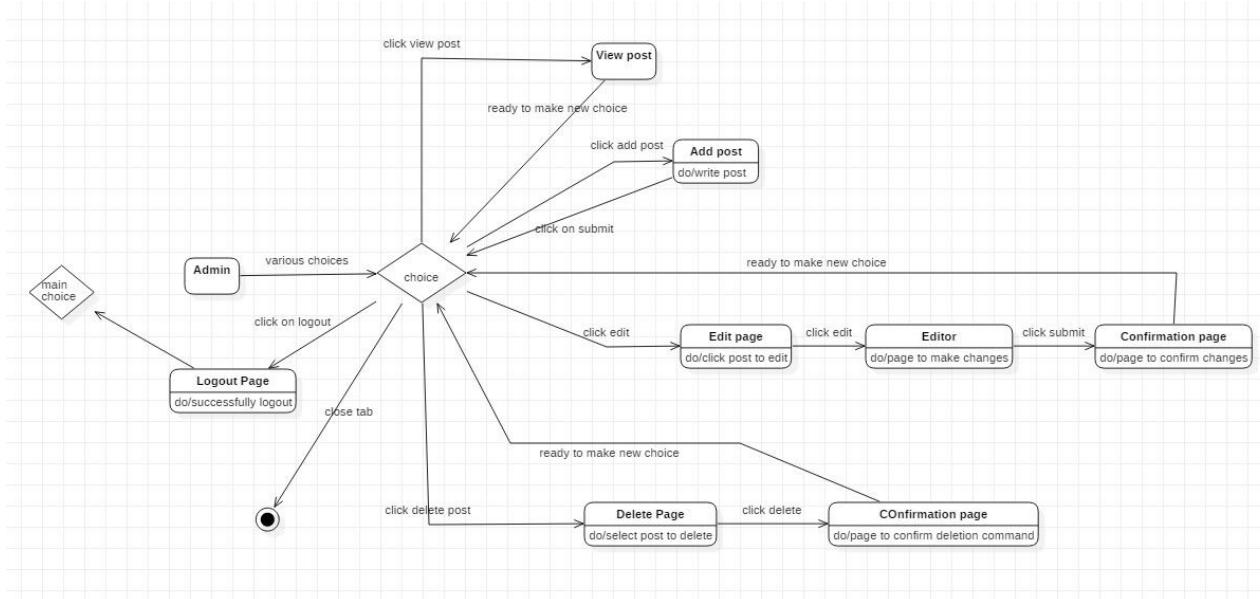
4. State Diagram: Overview



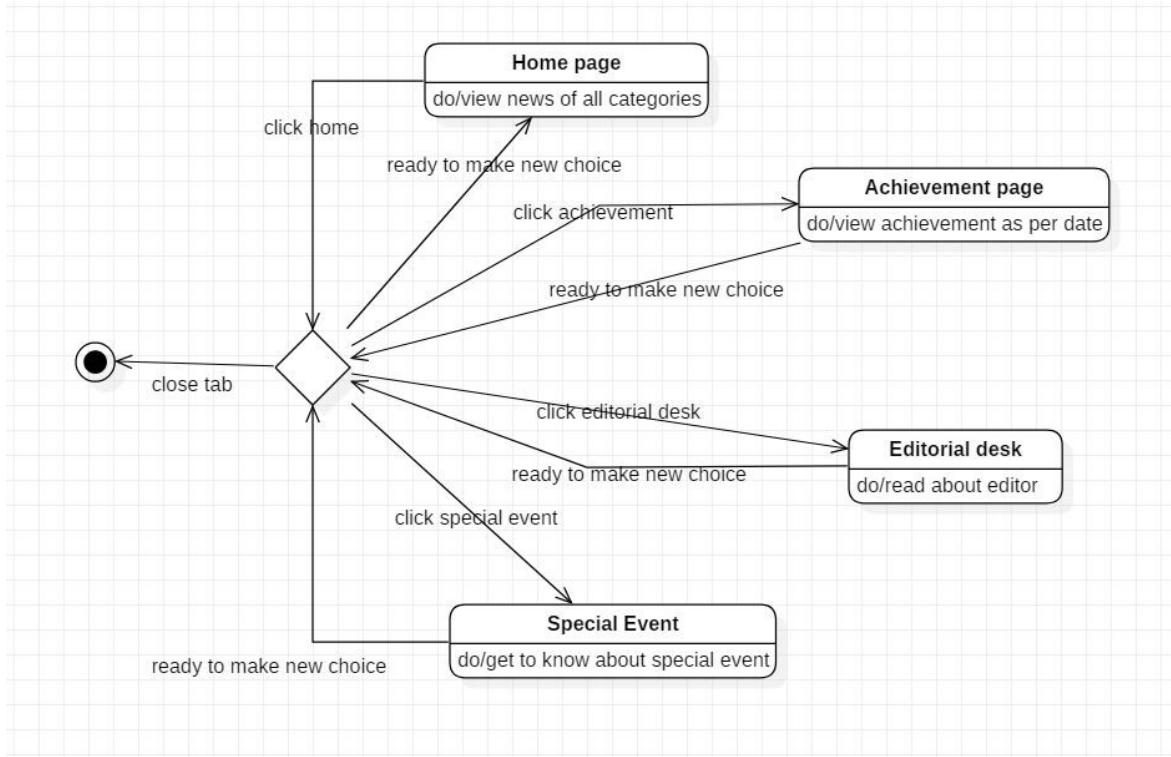
State Diagram: Home

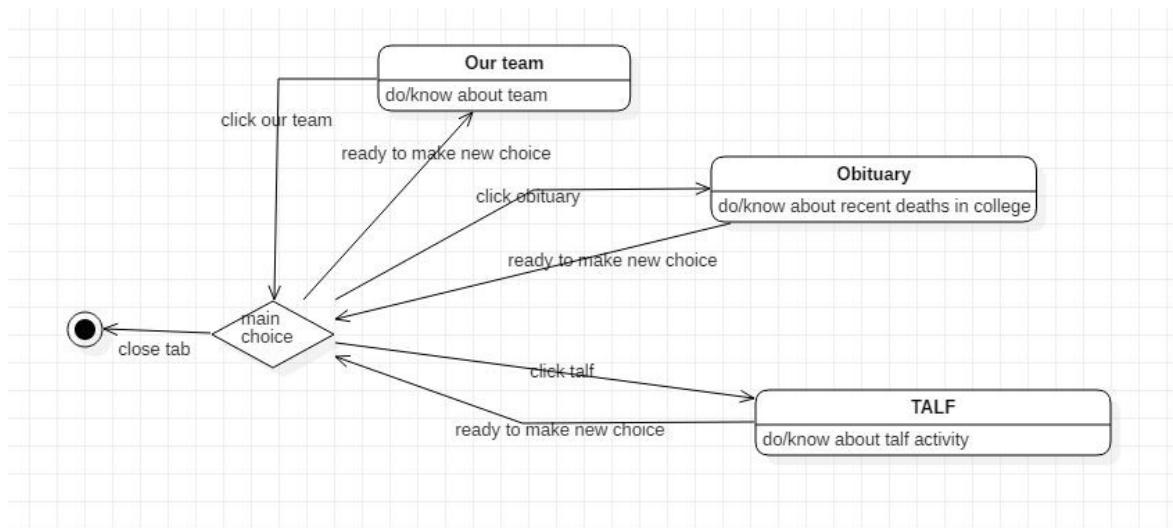
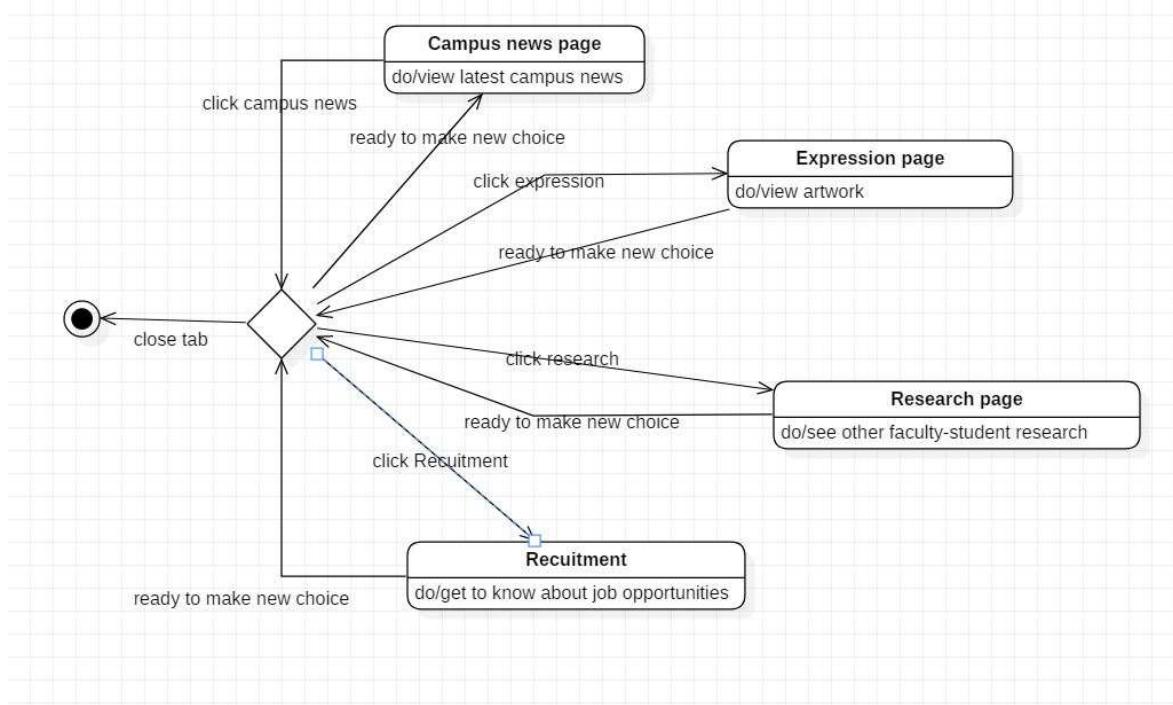


State Diagram: Admin

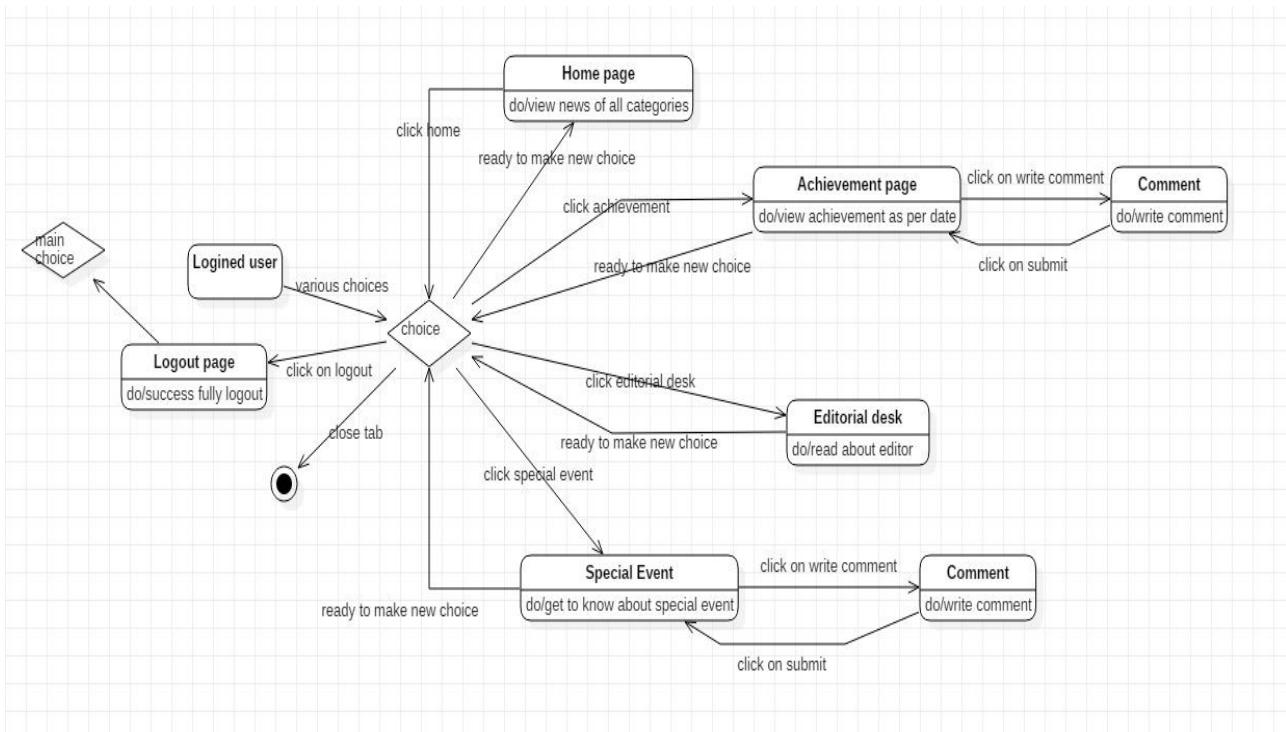


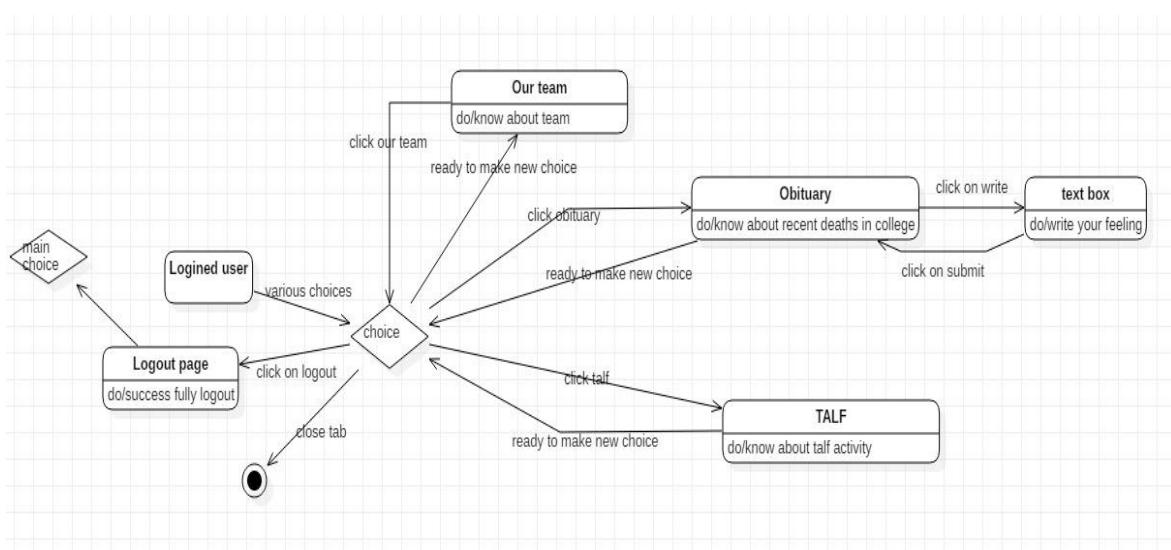
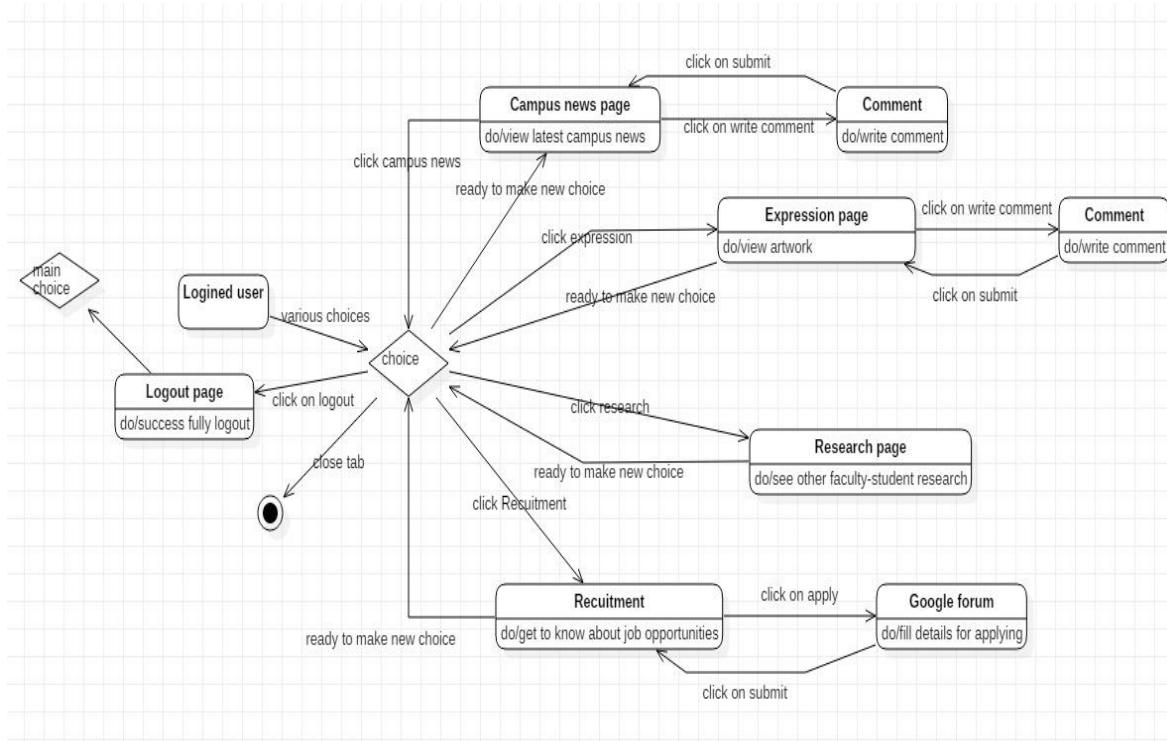
State Diagram: Guest User



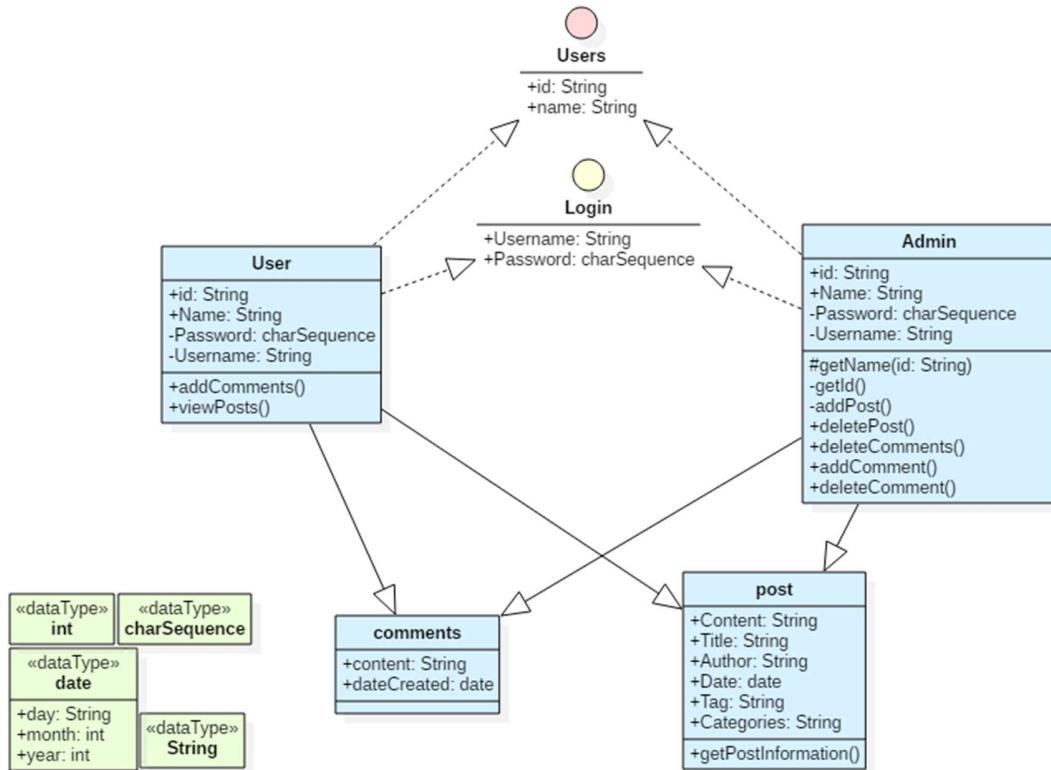


State Diagram: Registered User





Class Diagram:



5. Logical Architecture Description

The Architecture is based on Client – Server communication where the data is stored in MySQL Database and the server retrieves the data as and when the client requires it to.

6. Sequence Diagrams

6.1 Access website

The User first enter the domain URL and hit enter to send request to access the page to the server. After the server has received the request it will redirect the user to the Home page of the website.

6.2 Comment Validation

User can go through the news articles and can put their comments. The comments then will be evaluated by the admin. After evaluation the comments will be published.

6.3 Create posts

Admin can create posts after login and upload the content to the server after which the content is published. The post may contain news articles, media files or images etc.

6.4 Delete Posts

The admin can delete posts or make necessary updates if required. The updated data gets fetched by the server and is then published.

6.5 User Login

The User fill the credentials for logging in to the website. By logging in the user can put their comments as the comment require a username and valid authentication.

6.6 View Post

Once the user is redirected to the home page, user can view the page of choice.

6.7 Admin Login

The Admin fill the credentials to log in to the website. After logging in, the admin is redirected to the admin home page and can Create, Read, Update, Delete operations on the desired posts and comments.

7. States Diagram:

7.1 Home

The User first go to the website either by logging in (Registered user) or without logging in (Guest user). Admin also require an authorized login to access the features. Once the user gets to the home page, user can read the posts and news.

7.2 Admin

The admin must log in first to access the functionalities. The admin gets the right to add and delete posts, read, validate, modify and delete comments.

7.3 Guest User

The user who only wants to view the content of the posts falls in this category. The guest user does not have the right to comment on the posts.

7.4 Registered User

The registered user can login to view the content and write comments. User can register to the website by clicking on the signup button and filling the required fields of the form.

8. Pseudo Code

METHODS:

1. LOGIN (String user)

```
I. if (username==valid &&
      password==valid)
      a. if (user==Admin)
          then, go to Admin desk
      b. if (user == users)
```

then, go to user desk

c. else go to 1.

II. else go to 1.

2.VIEW_PAGE (String user)

I. if (users!=NULL)

• if (user == Admin)

then, show
homepage with Admin bar

• if (user == users)

then, show user's homepage

ii. else

show default
homepage.

3.ADD_COMMENTS ()

I. go to comments section of the
page

II. write comments

III. click on postComments()

• if ,user logged in as
users

then, post comments

• if ,user logged in as
Admin

```
        then,          go      to
comment_verification()
;
else
go           to
comment_verification()
;
```

IV. page gets refreshed.

4. COMMENT_VERIFICATION ()

i. Requires login(Admin)

- 1) if
(comments==valid)
then, approve the
comments
 - 2) else
delete_comments ();
- ii. comments page

5. DELETE_COMMENTS ()

- a) Requires login(Admin)
- b) Go to comments section in the dashboard
- c) If (comment==invalid)
then, remove(comment);
 - d) else
Go to comments_verification().

6. ADD_CATEGORIES ()

- a) Requires login(Admin)
- b) Click on add categories section
- c) If (category!=NULL)
then, Add category
 - else
Intent to desk-board

7. ADD_POST ()

- a) login (user);
- b) Go to all post
- c) Go to new post
 - i. Add title
 - ii. Select category
 - iii. Add content
 - If media present
 - Upload from the local drive
 - else

Continue with the post

- iv. Add the thumbnail picture
- d) Upload the post.
- e) Check the page for the change

8. UPDATE_POST ()

- a. Requires login (Admin)
- b. Go to all post
- c. Search the post need to be updated
- d. Update the change.
- e. Save changes

9. DELETE_POST()

1. Requires login (Admin)
2. Go to all post
3. Click on search bar
4. type the post name to be deleted
5. click on delete
6. Save the changes

10. UPDATE_CATEGORIES ()

- a. Requires login (Admin)
- b. Go to categories
- c. Search the category need to be updated
- d. Update the changes
- e. Save changes

11. ADD_USER ()

1. Requires login(Admin)
2. go to all user
- 3.go to new user and fill all the details given below:
 - a. User name:
 - b. email:
 - c. Name:
 - d. password
 - e. set the role
- 4.Click on add new user

12. DELETE_USER ()

1. Requires login (Admin)
2. go to all user
3. select the user you want to delete
- 4.click delete user

Delete all content

`
Attribute
all content to

5. Choose either according to your
need

6.Confirm deletion.

13. UPDATE_USERDETAILS (String user)

1. Requires login (Admin)
- 2.if (user==Admin)

Change the user details you want
to change

Go to send a copy to the user.

3. if(user==users)

 Go to dashboard

 -> change the
 necessary details.

4. save the changes

14. ADD_PAGE ()

1. Login ();

2. Go to all page

 3. Go to new page

 a. Add title

 b. Add content

 c. If media present

 then, Upload from the local
 drive

 e. else

 Continue with the post

Add the thumbnail picture

4. Upload the page.
5. Check the page for the change

15. UPDATE_PAGE ()

- a. login ()
- b. Go to all page
- c. Search the page need to be updated
- d. Update the change.
- e. Save changes

16. DELETE_PAGE ()

1. Login ()
2. Go to all page
3. Search the post need to be DELETE
4. delete the post
5. Save the changes

17. DELETE_CATEGORY ()

1. Login ()
2. Go to all category
3. Search the category need to be DELETE
4. delete the category
5. Save the changes

CHAPTER :3.Software Coding

Introduction

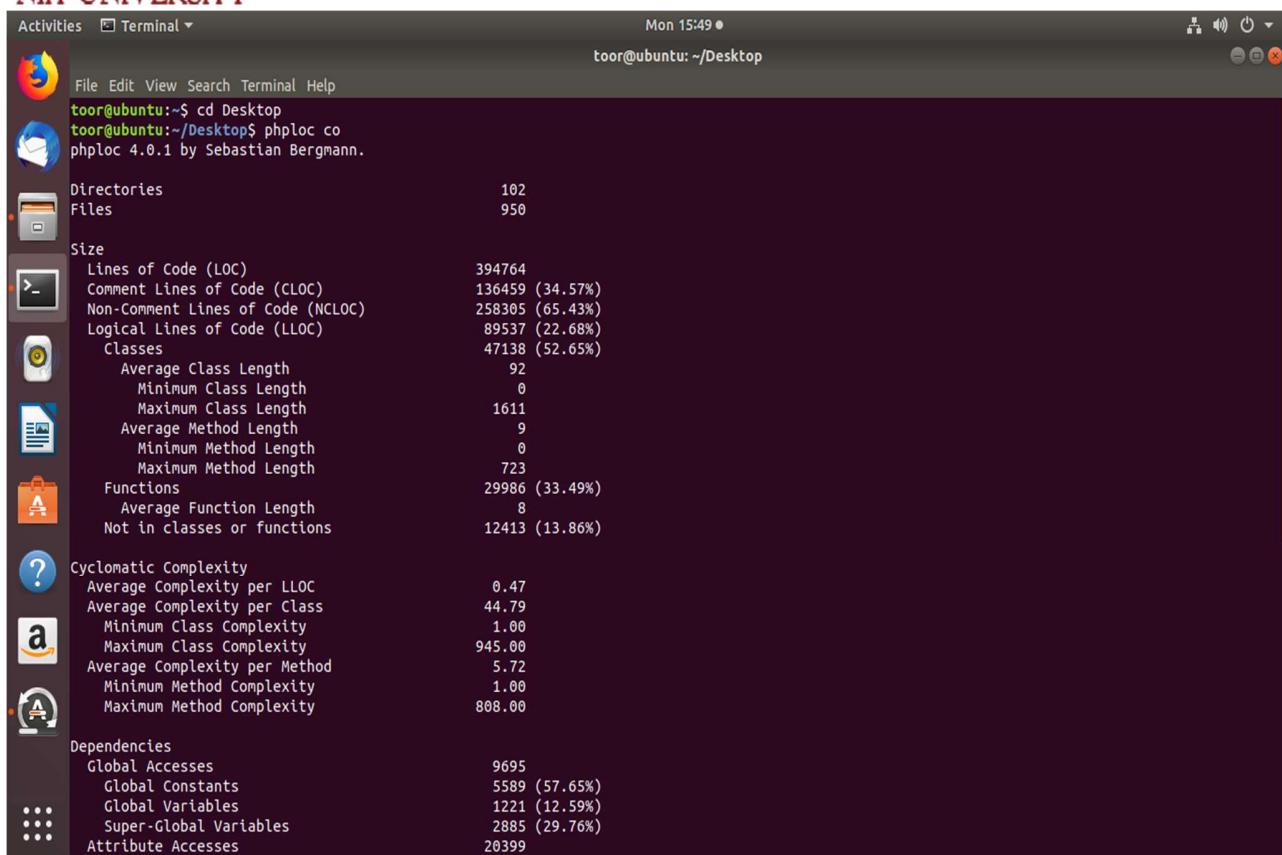
This document will provide the coding metric values for the project.

The metric tools used is,

- PHPlloc – A tool for quickly measuring the size and analyzing the structure of a PHP project.

PHPlloc Output

This section shows the analysis of code metrics for the whole project.



Activities Terminal ▾

Mon 15:49 ●
toor@ubuntu: ~/Desktop

```
toor@ubuntu:~$ cd Desktop
toor@ubuntu:~/Desktop$ phploc co
phploc 4.0.1 by Sebastian Bergmann.

Directories 102
Files 950

Size
  Lines of Code (LOC) 394764
  Comment Lines of Code (CLOC) 136459 (34.57%)
  Non-Comment Lines of Code (NCLOC) 258305 (65.43%)
  Logical Lines of Code (LLOC) 89537 (22.68%)
  Classes 47138 (52.65%)
    Average Class Length 92
    Minimum Class Length 0
    Maximum Class Length 1611
    Average Method Length 9
    Minimum Method Length 0
    Maximum Method Length 723
  Functions 29986 (33.49%)
    Average Function Length 8
    Not in classes or functions 12413 (13.86%)

  Cyclomatic Complexity
    Average Complexity per LLOC 0.47
    Average Complexity per Class 44.79
    Minimum Class Complexity 1.00
    Maximum Class Complexity 945.00
    Average Complexity per Method 5.72
    Minimum Method Complexity 1.00
    Maximum Method Complexity 808.00

Dependencies
  Global Accesses 9695
  Global Constants 5589 (57.65%)
  Global Variables 1221 (12.59%)
  Super-Global Variables 2885 (29.76%)
  Attribute Accesses 20399
```

```
Activities Terminal Mon 15:49 ●
toor@ubuntu: ~/Desktop
File Edit View Search Terminal Help
Maximum Class Complexity 945.00
Average Complexity per Method 5.72
Minimum Method Complexity 1.00
Maximum Method Complexity 808.00
Dependencies
Global Accesses 9695
Global Constants 5589 (57.65%)
Global Variables 1221 (12.59%)
Super-Global Variables 2885 (29.76%)
Attribute Accesses 20399
Non-Static 20157 (98.81%)
Static 242 (1.19%)
Method Calls 13922
Non-Static 11510 (82.67%)
Static 2412 (17.33%)
Structure
Namespaces 1
Interfaces 6
Traits 0
Classes 502
Abstract Classes 10 (1.99%)
Concrete Classes 492 (98.01%)
Methods 4763
Scope
Non-Static Methods 4148 (87.09%)
Static Methods 615 (12.91%)
Visibility
Public Methods 4137 (86.86%)
Non-Public Methods 626 (13.14%)
Functions 3416
Named Functions 3415 (99.97%)
Anonymous Functions 1 (0.03%)
Constants 1007
Global Constants 878 (87.19%)
Class Constants 129 (12.81%)
toor@ubuntu:~/Desktop$
```

CHAPTER :4.Test Document

REQUIREMENT ID	CLASS/COMPONENT NAME	METHOD NAME	INPUT PARAMETERS OR SCENARIOS	EXPECTED OUTPUT	STATUS(PASS /FAIL)
REQ1	Search Bar	search_post(string)	Any text to find	Display news as per input	PASS
REQ2	View comment	comment_view()	Click view comments	Display all the comments posted	PASS
REQ3	Type comment	add_comment()	Comment to be posted	Comment to be submitted for approval	PASS
REQ4	Home Page	view_page(string)	Click Home Page	Display the home page of website	PASS
REQ5	Special Events	view_page(string)	Click Special Events	Display news about all special events	PASS
REQ6	Campus News	view_page(string)	Click Campus News	Display latest campus news	PASS
REQ7	Expressions	view_page(string)	Click Expressions	Display artwork by students or staff	PASS
REQ8	Achievements	view_page(string)	Click Achievements	Display various achievements	PASS
REQ9	Research	view_page(string)	Click Research	Display research done by student or staff	PASS
REQ10	Recruitment	view_page(string)	Click Recruitment	To tell about available job opportunities	PASS
REQ11	Obituary	view_page(string)	Click Obituary	Display recent deaths in campus.	PASS
REQ12	View recent post	view_page(string)	Click recent post	Display all the recent post published	PASS
REQ13	Create Post	add_post()	Click create post	Provide field for input of post to be published	PASS
REQ14	Delete Post	delete_post()	Click delete post	Delete post permanently after confirmation	PASS
REQ15	Validating comments	comment_validation	Click validation of comments	To publish comment if it is validated or remove it otherwise	PASS
REQ16	API of TOI		Reload or wait for latest news	Latest news to be updated automatically	PASS

CHAPTER :5. Minutes of Meetings

20th August 2018

MINUTES OF MEETING 1

Meeting called by: Group Members

Facilitators: Dr. Anshima P. Srivastava(Editor In-Charge)

Agenda of meeting: Project Proposal

Minutes

Discussions:

- First we introduce the team and the purpose of the meeting and after that we pitched our idea regarding next version of a digital solution for newsletter.
- We discussed how to implement it through a web application.
- This was followed by a discussion on the need of such an application for the campus. The previous scenarios were discussed with us and we explained how our web-application will solve this problem.

Conclusion:

- Anshima Ma'am gave us a go-ahead for carrying out this project and make an SRS document for the same

Action items	Person responsible
Start with building the web application and prepare the SRS.	Team

MINUTES OF MEETING 2

Meeting called by: Client

Facilitators: Ayushi Goel (Designer & Editor)

Agenda of meeting: Web application design

Minutes

Discussions:

- After telling the purpose of the meeting, we discussed how should the design of the website look like.
- We were shared idea on how we had to design our website.
- The web application needs to have the following sections:
 - Header
 - Content
 - Left navigational panel
 - Footer
- In the homepage, the following links to pages need to be included:

o Home	o Editorial desk
o Campus News	o Achievements
o Expression	o About Us

Conclusion:

- Client gave us the basic structure upon which we have to design the website to suit the requirements.

Action items	Person responsible
To include the above mentioned sections in our web app UI with simple but good appearance.	Team

MINUTES OF MEETING 3

Meeting called by: Group Members

Facilitators: Ayushi Goel (Designer & Editor)

Agenda of meeting: Theme Decide

Minutes

Discussions:

- After telling the purpose of the meeting, we discussed what should be the theme of website.
- Our design of website was analysed by client and told to make necessary changes.
- Next, we were informed how to facilitate 2 classes of users –Admin and Guest in our website.
- we discussed how the privileges of these users will be distinguished and how they will be able to use our application.

Conclusion:

- Client gave us their requirements and finalized the theme.

Action items	Person responsible
To change the theme according to the client and make changes.	Team

MINUTES OF MEETING 4

Meeting called by: Group Members

Facilitators: Ayushi Goel (Designer & Editor)

Agenda of meeting: New Information to add

Minutes

Discussions:

- After telling the purpose of the meeting, we discussed what are the new tabs client want.
- Client told us he want few more tabs as follows
 - o Obituary
 - o Contact Us
 - o Editorial Desk
 - o Special Events
- Finally, on discussing what all information these tabs will hold and the accessibility of these by various types of users we ended the meeting.

Conclusion:

- Client told us to add more options to website for relative information and we have to work on it.

Action items	Person responsible
To add new feature to website as required by client and to update access privilege accordingly	Team

2nd November 20

MINUTES OF MEETING 5

Meeting called by: Group Members

Facilitators: Ayushi Goel (Designer & Editor)

Agenda of meeting: Finalization

Minutes

Discussions:

- As the product was ready we meet client and showed the final website which was ready to be hosted.
- She looked at all the features available and analyzed the site thoroughly.
- On satisfying with the final product she gave us the server to host the website on it.

Conclusion:

- Client approved our final product and gave us the server to host the website and we decided to work on it further.

Action items	Person responsible
Hosting the website on the server	Team

CHAPTER :6.Nature of the Customer

In the project of NU-Newsletter our main customer is aNUkritti team. The team is headed Dr. Anshima P Srivastava. Their main aim is to keep NUTons up to date with the activities related to NIIT University. By selecting the right content, they can keep users informed on topics such as new paper published, special events in campus and Nutons participation in exhibitions and other activities.

We prefer describing our customer as Dynamic customer where we proposed them with solution of their problem and they gave us their requirements along with some basic idea about what technology and framework to be used.

For the same we gave them the first design and they appreciated our effort in the work we did and asked us to add up some extra features as some news API and other functional requirements.

Our customer were very supportive for the service needed and they helped us by providing the necessary data and the contents required for their product. In the time of hosting the project live also they supported us tremendously in terms of contacting the right person involving for hosting to the server and in terms of communicating through the issues we faced.

7. Testimonials from Customer/Users

- How easy was it to install our software?
 Extremely easy Very easy Moderately easy Slightly easy Not at all easy
- How quick was the installation process for our software?
 Extremely quick Very quick Moderately quick Slightly quick Not at all quick
- How user-friendly is our software's interface?
 Extremely user-friendly Very user-friendly Moderately user-friendly Slightly user-friendly Not at all user-friendly
- How successful is our software in performing its intended task?
 Extremely successful Very successful Moderately successful Slightly successful Not at all successful
- Overall, are you satisfied with the performance of our software and our team, neither satisfied nor dissatisfied with it, or dissatisfied with it?
 Extremely satisfied Moderately satisfied Slightly satisfied Neither satisfied nor dissatisfied Slightly dissatisfied Moderately dissatisfied Extremely dissatisfied
- How likely are you to recommend our software and the team to others?
 Extremely likely Very likely Moderately likely Slightly likely Not at all likely

- How approachable our team was
 Extremely approachable Very approachable moderately approachable very difficult to meet don't respond on time

How do you rate the technical competence of the team
 Extremely Talented Moderately Talented Not talented at all

Would you like to continue with our team in future
 Would love to work Will at least give a thought Will not consider at all

Andolina PI
(Dr. Andolina P. Divastava)

The project was done as a course project of CS 301. Would you like to participate in selecting the team from pool of students next time for another product?

Would love to work Will at least give a thought Will not consider at all

How much business time is saved by the tool/product developed by our team compared to your traditional way of doing the business(e.g. without this product/tool/software)

0-10% 10-30% 30-60% 60-80% more than 80%

Do you think the product is helpful to increase the business turnover

Quite sure It is likely to do so Don't know/can't say It was waste of time. No improvement at all.

How much percentage of your expectations /requirements are satisfied

100% 70-90% 40-60% below 40%

If you were the course supervisor how would you evaluate the project?

A+ A B B+ C+ C D+ D Below D

How would you rate the sincerity of the team

Any other suggestion/feedback/comment

extremely sincere Good level of sincerity is there Moderate level of sincerity Not sincere at all

Ankima PS
(Dr Ankima Praveetava)

8. Tools and Technology Used

Sl.no	Activity	Name of Tools and Technology Used
1	SRS	IEEE SRS Template, Lucid chart, star UML and Argo UML
2	Local Hosting	XAMPP server
3	Testing	---
4	UML	Lucid chart, star UML and Argo UML
5	Design Doc	IEEE SRS Template, Lucid chart, star UML and Argo UML
6	Coding & Editing	Visual Studio Code editor
7	Live hosting	Microsoft Internet Information Services TCO NU
8	Version control	GitHub
9	Front-End	HTML, CSS, JavaScript and Bootstrap
10	Back-end	PHP
11	API	Times of India
12	Software metric	PHPLOC
13	Database	MySQL database
14	Generating Documentation	Doxxygen
15	Framework	WordPress
16	Communication	WhatsApp Group and Gmail

9.Novelty of the Project Idea

- **Purpose**

The main purpose of this project is to provide the more user-friendly website for NU Newsletter which can be easily managed by admin and contents can be updated by editors.

- **Scope of Product**

It provides a solution for the problem where editor has to tell the changes to be made and web site handle had to add it to code. Now website is more dynamic in nature. By this admin can easily make changes according to his/her will.

- **Product Perspective**

The earlier system was purely based on coder as editor was not able to add or format content directly on website; in order to ease this whole process, new website is developed.

- **Uniqueness of Website**

This website has unique features which make it more attractive for both admin/editor and reader.

- Give a option to editor to type content and format it accordingly for better look which make it easy for future changes.
- Have many tabs like Campus News, achievements, special events, obituary etc for respective news which make it very easy for readers to find appropriate news.
- Have a dynamic home page which changes with the latest news making it up-to-date all the time.

10.Sophistication value of the Project

This website will give editor a scope to edit or add content on website themselves. Earlier all this job involved a coder who used to take content from editor and used to add to website. But now with help of this new website editor, designer will be helped a lot as they will be having ability to accomplish their task up to their full satisfaction without coding.

This website has following features:

1. Admin can authorize / deauthorize editor, he can approve the comments made by registered users along with all other basic stuff.
2. An authorized editor can add/edit content on website and also can format it.
3. Registered reader can comment on the article and submit it for approval from admin.
4. Guest users have ability to read the articles and if they want to comment they can register to do the same.

These things made it possible to overcome previous limitations of the website.

COMPABILITY ISSUES

Some points to be kept in mind for a successful run of this web application:

- An updated web browser that supports various web technologies.
- A working internet connection.

While working on this project, the compatibility issues that we faced were while migration of work from localhost to main server at TCO.

11.Applicability of the Project(Usefulness)

The main aim of our project was increasing efficiency by using new technique available. In previous web available a technical person who knows coding could only add the content in the web but now any layman from the team can post the news to the web which is very easy, user friendly, efficient and when posted the view of it is really appealing to the eyes of the reader. It can be also used as any other content management system.

- **How it is useful for admin:**

The admin has all the rights and access to all the database about user, the news posted, categories, tabs available in the web. Admin has all rights to change or update in a simple GUI.

Admin can delete all the unwanted and expired data which can includes about users or about the comments the viewers have asked for approved which are not relevant.

- **How it useful for the viewer**

In the past it was not convenient for the user to access the page and they had to remember the git link to view the web. But now it is more of just a link which is hosted. The view here is also appealing, and the recent news are all listed. This makes it easy to view and simple, even a layman who can read and write can view and send the appropriate comment to admin to get approved.

- **how it's useful for user**

The team member can post the content to related to any category at any moment through a simple GUI which was the main problem in the previous one. Here users are provided with the username and password by the admin and they can change their preferences according to their requirement which is all through simple GUI.