

NEWS PORTAL MANAGEMENT SYSTEM

A Dissertation Report Submitted for the Partial Fulfillment of the Requirements for the degree of

**Bachelor Degree
in
Computer Application
By**

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**Under the Guidance of
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Gliding down the days of development of the system entitled “**News Portal Management System**”, I share a thought of giving a standing ovation to the persons for their support and valuable advice and the guidance that helped us in carrying out this work.

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ABSTRACT

Our project is News Portal Mangement System. It will help people to access latest news urgently at zero cost. For doing this activities we have used PHP, HTML, JAVASCRIPT,CSS, MYSQL, in windows Operating System.

We think that it will be too much attractive method for fastest News Sharing system. This project explores a new dimension to make it more interesting and challenging.

CERTIFICATE OF AUTHENTICITY

This is to certify that the project report entitled “News Portal Mangement System” submitted to North Lakhimpur College (Autonomous) in partial fulfillment of the requirement for the Major Project of BCA 6th Semester is an original work carried out by **Madhurya Dutta** enrolment no. **18BC002** under guidance. The matter embodied in this project is authentic and genuine work done by the student and has not been submitted whether to this university or to any other university/institute for the fulfillment of the requirement of any course.

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Date:

Signature of Project Guide

Name: Dipul Gogoi

Date:

**Department of Computer Science
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CERTIFICATE

This is to certify that **Madhurya Dutta (18BC002)** have prepared the dissertation report entitled “**News Portal Management System**”. This work was done under the supervision and guidance of **Dipul Gogoi**.

The dissertation is the result of their efforts and endeavors. The dissertation is found worthy of acceptance for completion of his major project in Bachelor of Computer Application (BCA).

Date:

Place: Lakhimpur

Ranjit Paul. (MCA, M. Phil.)

Associate Professor (HOD)

DEPARTMENT OF COMPUTER SCIENCE

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CERTIFICATE

This dissertation entitled “**News Portal Management System**” submitted by **Madhurya Dutta**, Enrollment No. **18BC002** for partial fulfillment of the requirement for the degree of Bachelor of Computer Application (BCA) at North Lakhimpur College has been examined by us and found to satisfactory.

Internal Examiner

Date:

External Examiner

Date:

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1.1 Introduction:

The purpose of the project is to develop an online news system and provides news for all viewers. All the news regarded to the category will be updated regularly by admin. Reporter/author can send a news item to the news website which is managed by the administrator to whom the editor's panel kept in charge for this to make it visible for the masses. The software application is designed in such a manner that can suit the needs of all the News Portal requirement in the course of future.

1.2 Need of News Portal Management System:

Now-a-days we live in age of Information Communication and Technology. We can't think a single moment without technology. From morning to night, we need help of the technology. Most of the works depends on web application. For this reason, anytime, anywhere, anyone can access a website by internet at low cost and we can find our expectable and most update information from website. The role of an online news portal is really very important in today's fast life where no one has enough time to sit in front of Television to know what's going around the whole world.

Reading the news online saves a lot of time, while giving you the updates of the day. It also saves money, which you would otherwise spend on a bundle of newspaper. Also, you need not turn on your television or radio; you can look through the news portal and gather the information required even while you are in the office. An online news portal solves several purposes:

1. News websites give the information to the public – political, social, sports, entertainment etc.
2. Instant and latest news from all over the globe.
3. Easier accessibility.
4. Latest news as per the interest.
5. Minute-to-minute coverage of any breaking news.

1.3 Objectives:

- Introducing a new dynamic website for online news portal system, which is full of relevant information and easy to use where admin and Reporter have different user panel for the fulfillment of different purpose.
- For more widely coverage of distribution and faster dissemination of information in a more timely manner.
- Anytime, anywhere, anyone can know about the news or information by internet at low cost.

1.4 Minimum Hardware Requirements:

Processor	:	Intel Core Duo 2.0 GHz or more
RAM	:	1 GB or More
Hard disk	:	80GB or more
Monitor	:	15” CRT, or LCD monitor
Keyboard	:	Normal or Multimedia
Mouse	:	Compatible mouse

1.5 Minimum Software Requirements:

1.5.1 User side requirement:

Operating System: Windows/other compatible OS

Web Browser: Mozilla Firefox, Google Chrome/other compatible browser

1.5.2 Server side requirement:

Front End: PHP 5.3.0

Back End: MYSQL 5.1.36

Web Server: XAMPP 3.2.2

Web Server: APACHE

Front End	:	Visual Studio Code
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1.6 Technology:

Server: Apache 2.4.48

The Software and Tools used in developing this News Portal Management System project are:

PHP (Hypertext Preprocessor)

PHP is a general-purpose **web development** language that is one of the most popular server-side scripting tools based on HTML. This platform is quite fast and considered as the **best** option for building dynamic **web** pages.

HTML (Hyper Text Markup Language)

Hypertext Markup Language, or **HTML**, is a **programming** language **used** to describe the structure of information on a **web** page. Together, **HTML**, CSS, and JavaScript make up the essential building blocks of **websites**, with CSS controlling a page's appearance, and JavaScript **programming** its functionality.

CSS

- CSS stands for Cascading Style Sheet.
- CSS is used to design HTML tags.
- CSS is a widely used language on the web.

JavaScript

The **HTML** <script> tag is **used** to define a client-side script (**JavaScript**). The <script> element either contains script statements, or it points to an external script file through the src attribute. Common uses for **JavaScript** are image manipulation, form validation, and dynamic changes of content.

Script

Web script, a computer **programming** language for adding dynamic capabilities to World Wide **Web** pages. **Web** pages marked up with HTML (hypertext markup language) or XML (extensible markup language) are largely static documents.

Unit 2: Data Dictionary

Data Dictionary can be defined as a DBMS component which stores the definition of characteristics of data and relationships. This “data about data” are labeled as metadata. Data Dictionary provides the DBMS with its self-describing characteristic.

news

Column	Type	Null	Default	Links to	Comments	Media type
id	int(10)	No				
title	varchar(190)	No				
tags	varchar(40)	No				
content	text	No				
photo	varchar(50)	No				
posted	varchar(40)	No				
date	date	Yes	<i>NULL</i>			
author	varchar(40)	Yes	<i>NULL</i>			
category	int(10)	No				

No index defined!

news_categories

Column	Type	Null	Default	Links to	Comments	Media type
id	int(10)	No				
name	varchar(40)	No				

No index defined!

membership_grouppermissions

Column	Type	Null	Default	Links to	Comments	Media type
permissionID <i>(Primary)</i>	int(10)	No				
groupID	int(11)	Yes	NULL			
tableName	varchar(100)	Yes	NULL			
allowInsert	tinyint(4)	Yes	NULL			
allowView	tinyint(4)	No	0			
allowEdit	tinyint(4)	No	0			
allowDelete	tinyint(4)	No	0			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	permissionID	5	A	No	

membership_groups

Column	Type	Null	Default	Links to	Comments	Media type
groupID <i>(Primary)</i>	int(10)	No				
Name	varchar(20)	Yes	NULL			
description	Text	Yes	NULL			
allowSignup	tinyint(4)	Yes	NULL			
needsApproval	tinyint(4)	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	groupID	2	A	No	

membership_users

Column	Type	Null	Default	Links to	Comments	Media type
memberID (<i>Primary</i>)	varchar(20)	No				
passMD5	varchar(40)	Yes	<i>NULL</i>			
Email	varchar(100)	Yes	<i>NULL</i>			
signupDate	Date	Yes	<i>NULL</i>			
groupID	int(10)	Yes	<i>NULL</i>			
isBanned	tinyint(4)	Yes	<i>NULL</i>			
isApproved	tinyint(4)	Yes	<i>NULL</i>			
comments	text	Yes	<i>NULL</i>			

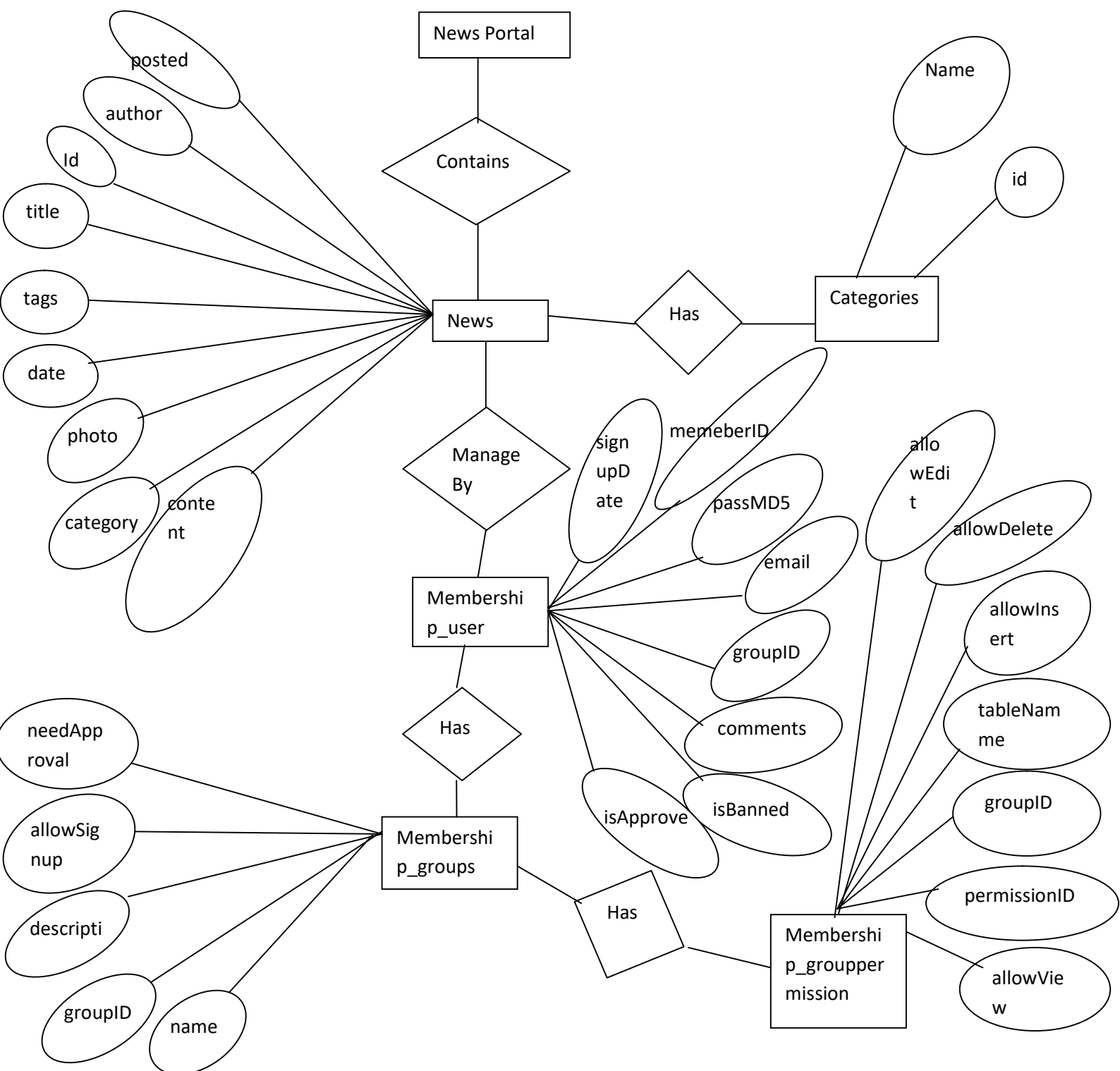
Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	memberID	3	A	No	
groupID	BTREE	No	No	groupID	3	A	Yes	

Unit 3: Data Flow Diagram and ER Diagram

3.1 ER Diagram

The entity-relationship data model is based on a perception of a real world that consists of a collection of basic objects called entities and of relationships among these objects. An entity is an “object” in the real world that is distinguishable from other objects. **For e.g.** each customer is an entity and rooms can be considered to be entities. Entities are described by a set of attributes. **For e.g.** the attributes Room no. and Room type describes a particular Room in a hotel. The set of all entities of the same type and the set of all relationships of the same type are termed as an entity set and relationship set respectively.



3.2 Data Flow Diagram (DFD)

DFD (Data flow diagrams) are used to graphically represent the flow of data in a business information system. DFD describes the processes that are involved in a system to transfer data from the input to the file storage and reports generation.

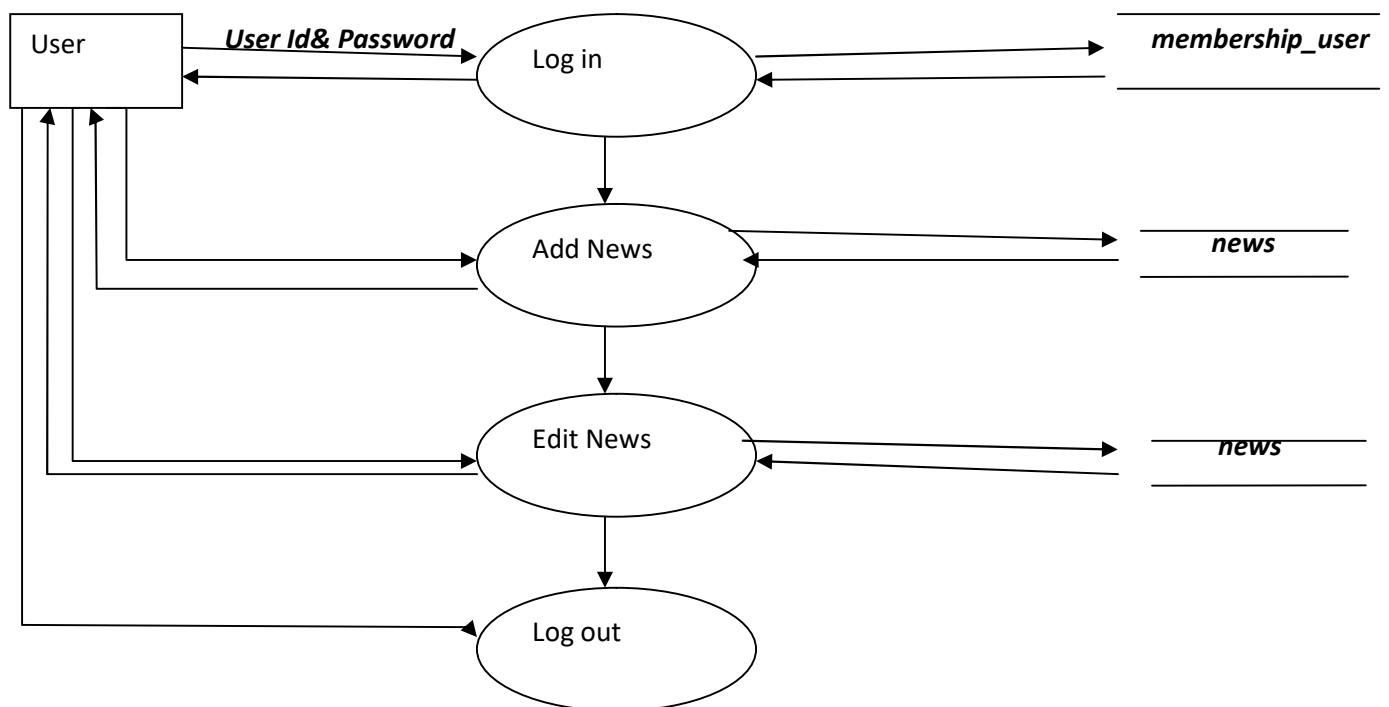
Data flow diagrams can be divided into logical and physical. The logical data flow diagram describes flow of data through a system to perform certain functionality of a business. The physical data flow diagram describes the implementation of the logical data flow.

3.3 Level of DFD

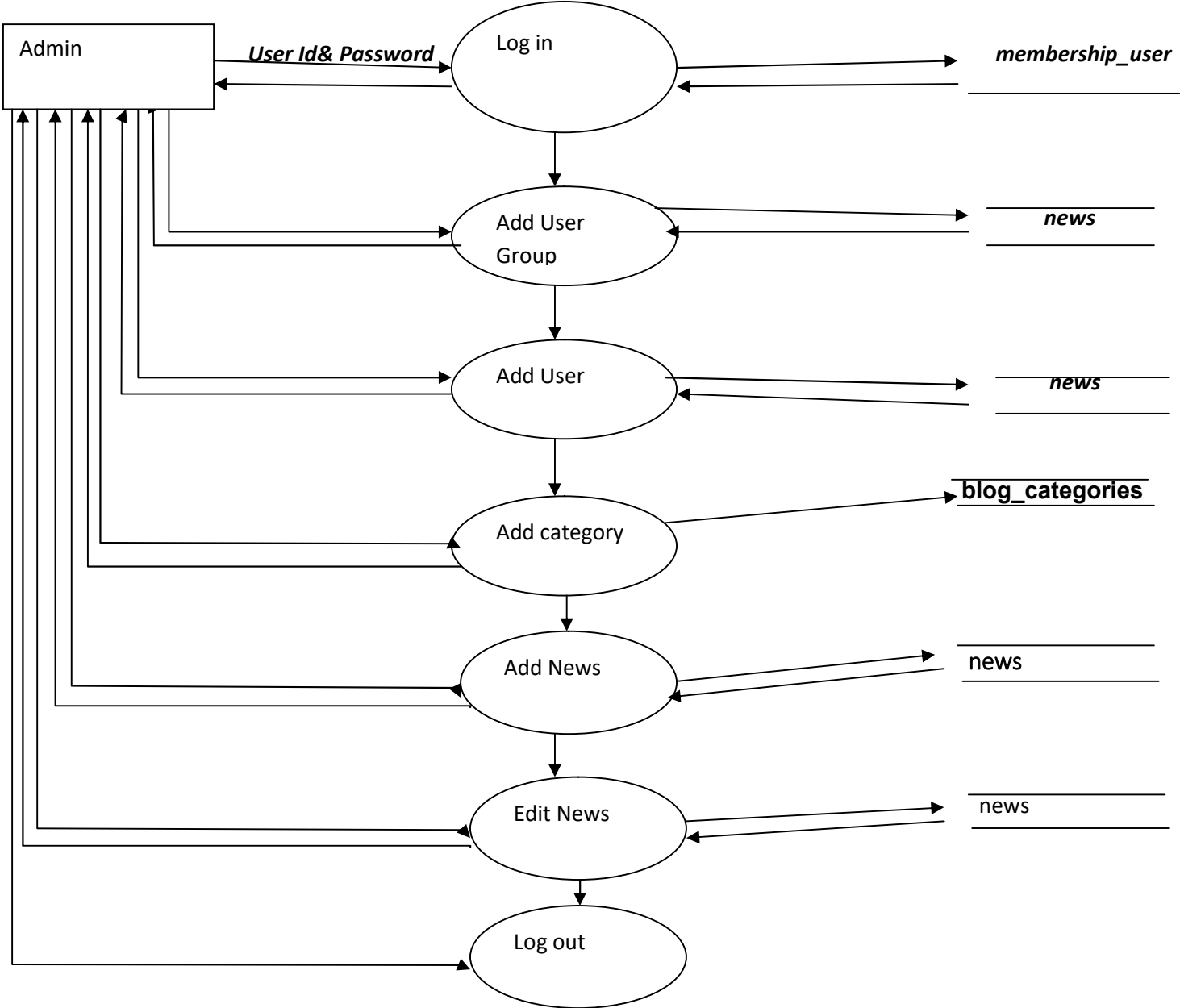
The level of DFD are :

- 0-Level*
- 1-Level*
- 2-Level*

(0-Level):



User Data Flow Diagram



Admin Data Flow Diagram

Unit 4: Feasibility Study

A feasibility study is a test of a system proposal according to its workability impact on organization, ability to meet user needs and effective use of resources. The objective of a feasibility study is not to solve a problem but to acquire a sense of its scope. During the study, the problem definition is crystallized and the aspects of the problem to be included in the system are determined. After the initial investigation of the system that helped to have in-depth study of the existing system, understanding its strength and weaknesses and the requirements for the new proposed system.

Feasibility study was done in three phases documented below.

4.1 Operation feasibility:

- Sufficient support for Online News readers.
- Work properly if it is being developed and implement.
- Easy to maintain.

4.2 Economical feasibility:

- The system economically feasible.
- Hardware, software and other.

4.3 Technical feasibility:

- Accuracy
- Reliability
- Security

Testing is the process of executing then programs with the intention of finding out errors. The aim of the testing process is to identify all the defects in the website. It is not practical to test the website with respect to each value that the input request data may assume. Testing provides a practical way of reducing defects in the website and increasing the user's confidence in a developed system. Testing consists of subjecting the website to a set of test inputs and observing if the program behaves as expected. If the program fails to Testing behave as expected then conditions under which failure occurs are noted for later debugging and correction.

5.1 Testing Levels:

Unit Testing The unit testing is a level of software testing where individual units (Module/Function) of software is tested by the developer. Benefit of unit testing is that it can be run every time whenever code is changed.

Integration Testing This testing level is to find the bugs (error) between module/function, it also check the interaction between each module.

System Testing This testing level is a complete system testing weather it fulfill the requirement of system working and verify the requirement of a user.

Acceptance Testing This testing is final level testing where it determine whether ready to release, it is tested in both end of the project.

5.2 Testing for Admin Module:

This module is used for log in of administrator of the system. In this we enter the username and password if both are correct administration page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask for username and password.

- Admin username and password is set.
- We can't register as Admin.
- Only Admin can add another Admin.

5.3 Testing for User Module:

This module is used for log in user of the system. In this we enter the email and password if both are correct User Dashboard page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask for email and password.

- Register first as a Reporter.
- Login with email and password.

Unit 6: Module Description

NEWS PORTAL is a website based on PHP. The purpose of this project was to develop the project is to develop an online news system and provides news for all viewers. This project includes mainly three modules i.e. Home Page , login and main page.

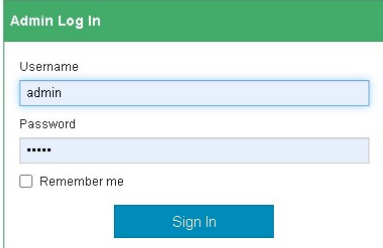
Login has mainly two parts:

- Admin Login
- User Login

6.1 Admin Login

Admin: The page requires user name and password to start the application. Login is a process by which individual access to a computer system is controlled by identifying and authenticating the user through the cardinalities presented by the user. Admin can add update or delete the user & Information.

NEWS PORTAL



The image shows a screenshot of the 'Admin Log In' form. It has a green header bar with the text 'Admin Log In'. Below the header, there are two input fields: 'Username' with the value 'admin' and 'Password' with masked characters '*****'. There is a checkbox labeled 'Remember me' which is unchecked. At the bottom right of the form is a blue button labeled 'Sign In'.


6.2 User Login

User: User can be add by admin . The user have to login on the same page as Admin, But can't Access Administrative level pages like, add user, update user, delete user , add news ,update news

6.3 Main Page


Main Page Window:- The NEWS PORTAL LMANAGEMENT SYSTEM is great project. this project is designed for successful completion of project on News Portal management system. the basic building aim is to provide simple and easiest online news reading platform. News Portal Management System (NPMS) is a browser based system that is designed to store, process, retrieve and analyze information concerned with the administrative and news management. This project aims at maintaining all the information of Day to Day news in a better & systematic way.

[HOME](#) [ABOUT](#) [CATEGORIES](#) [CONTACT](#) [Sign In](#)



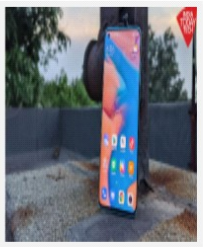
Explained: What happens after Biden evacuation force leaves Afghanistan

2021-08-26 admin
Biden , US , Taliban , Afghanistan



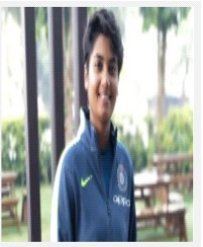
Will not stop even if Taliban kill us: Afghan teachers pledge to fight for girls' education

2021-08-26 admin
Taliban , Afghan ,



Xiaomi Mi 10 to get Android 11 Beta soon as Google releases it for Pixel phones

2021-08-26 admin
Google , Xiaomi , MI ,



India women tour of Australia: Bijnor Meghna Singh makes her way to the Indian team

2021-08-26 admin
India , Australia ,

Categories

Business	2
Tech	1
Sports	2
World	3
India	3

6.4 Dashboard:


User Dashboard Page : This page includes all the information of Management system. News Can be created,edited and deleted here .

NEWS PORTALadmin


[Dashboard](#)[News](#)[Categories](#)[Published](#)[Drafts](#)

Hello admin !


[View Website](#) / [Dashboard](#)

11News


View

5Categories


View

11Published

View

0Drafts

View

4Editor's Choice

View

6.5 Add News

Add sNews: -_The page require user id and password to open the pannel. Login is a process by which individual access to a computer system is controlled by identifying and authenticating the user through the cardinalities presented by the user. News Can be both add by Admin and user.

NEWS PORTAL

Jump to ...

Admin Area

Signed in as admin

Sign Out

Blog details

ID

Title*

Category*

Tags*

Content*

Photo*

Date

Author

Status*

B / U B I L List BulList Link Image Video Embed Font Size... Font Family... Font Format... [Rich Text Icons]

☐

Upload new file

Choose File No file chosen

09/02/2021

☐ draft

☐ publish

Back

Save New

Unit 7: Summary and Conclusion

With the theoretical inclination of our syllabus it becomes very essential to take the almost advantage of any opportunity of gaining practical experience that comes along. The building blocks of this Major Project "NEWS PORTAL Management System" was one of these opportunities. It gave us the requisite practical knowledge to supplement the already taught theoretical concepts thus making us more competent as a computer engineer. The project from a personal point of view also helped us in understanding the following aspects of project development:

- The planning that goes into implementing a project.
- The importance of proper planning and an organized methodology.
- The key element of team spirit and co-ordination in a successful project.

The project also provided us the opportunity of interacting with our teachers and to gain from their best experience

Unit 8: Future Recommendation

NEWS PORTAL MANAGEMENT is a software application to built such a way that it should suits for all type of News Providers in **future**.

One important future scope is availability of location based News Portal where user can reads news which are related to their nearest area .All the time the network facilities cannot be use. This time donor request does not reach in proper time, this can be avoid through adding some message sending procedure this will help to find proper blood donor in time. This will provide availability of blood in time.

Unit 9 : Bibliography

PHP Manual www.php.net/

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<http://www.w3schools.com>

<https://youtube.com>