

VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELGAUM-590014



A DBMS Mini-Project Report On *“News Portal”*

*A Mini-project report submitted in partial fulfillment of the requirements for the award of the degree of **Bachelor of Engineering in Computer Science and Engineering** of Visvesvaraya Technological University, Belgaum.*

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Department of Computer Science and Engineering

(ACCREDITED BY NBA, NEW DELHI FOR 3 YEARS VALIDITY:26-07-18 TO 30-06-21)

**DAYANADA SAGAR ACADEMY OF TECHNOLOGY AND
MANAGAEMENT**

(AFFILIATED TO VTU, BELAGAVI AND APPROVED BY AICTE,NEW DELHI)

Kanakpura Road, Udayapura,
Bangalore 2016-2020 BATCH



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CERTIFICATE

This is to certify that the Mini-Project on Database Management System (DBMS) entitled “**NEWS MANAGEMENT SYSTEM**” has been successfully carried out by **SIDDHARTH MEHTA (1DT17CS091)** and **RISHABH KUMAR (1DT17CS074)** a bonafide students of **Dayananda sagar academy of technology and management** in partial fulfillment of the requirements for the award of degree in **Bachelor of Engineering in Computer Science and Engineering** of **Visvesvaraya Technological University, Belgaum** during academic year 2019-20. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of project work for the said degree.

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1:

2:

ACKNOWLEDGEMENT

It gives us immense pleasure to present before you our project titled “**NEWS PORTAL USING HTML and PHP**”. The joy and satisfaction that accompany the successful completion of any task would be incomplete without the mention of those who made it possible. We are glad to express our gratitude towards our prestigious institution **DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT** for providing us with utmost knowledge, encouragement and the maximum facilities in undertaking this project.

We wish to express a sincere thanks to our respected principal **Dr. B. R. Lakshmikantha** for all their support.

We express our deepest gratitude and special thanks to **Dr.C.Nandini, Vice Principal & H.O.D, Dept. Of Computer Science Engineering**, for all her guidance and encouragement.

We sincerely acknowledge the guidance and constant encouragement of our mini- project guides, **Mr.MANJUNATH (Assistant Professor)**.

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ABSTRACT

The purpose of Online News Portal is to automate the existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

Online News Portal, 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. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information.

The aim is to automate its existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically the project describes how to manage for good performance and better services for the clients.

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CHAPTER 1

INTRODUCTION

Online news System allows customers to read up to date news related to many fields like Entertainment, Sports, Politics, Automobile, Miscellaneous etc.

- Without any payment or login. He can also contact us to give suggestions and can also give us feedback related to our site.
- New News can be added or post only by the admin and only admin have the Authorized to update or delete any News.
- Admin have the right to give authority to other for News update, add or Delete.

Technical System: With the invention of latest technology, we should update our systems which are very fast, accurate, user-friendly and reliable.

1.1 Objective

- The main objective of e-NEWS is that to provide the all type of instant and important news related to business, world, World Sports, national, Education etc.
- Those people who don't have time to read the newspaper and always linked with internet can get more informative.
- Publish news about local region, town, city, state, national and international. End user can upload news from anywhere at any time through web, mobile, tablets, etc. with registered their login id & password.
- Professionally publish online news publication, corporate press releases, or manage other content without technical expertise

1.2 Scope of the project

It may help collecting perfect management in details. In a very short time, the collection will be obvious, simple and sensible. It will help a person to know the management of passed year perfectly and vividly. It also helps in current all works relative to Online News Portal. It will be also reduced the cost of collecting the management & collection procedure will go on smoothly.

CHAPTER 2

REQUIREMENTS

The requirements can be broken down into 2 major categories namely hardware and software requirements. The former specifies the minimal hardware facilities expected in a system in which the project has to be run. The latter specifies the essential software needed to build and run the project.

2.1 Hardware Requirements

The Hardware requirements are very minimal and the program can be run on most of the machines.

- Processor - Intel 486/Pentium processor or better
- Processor Speed - 500 MHz or above
- Hard Disk -20GB(approx)
- RAM - 64MB or above
- Storage Space - Approx.2MB

2.2 Software Requirements

- Technology Implemented : Apache Server, MySQL Server
- Language Used :PHP
- Database : MySQL
- User Interface Design : HTML,CSS
- Web Browser : Chrome
- Software : XAMPP Version:7.1.10

CHAPTER 3

DESIGN

3.1 Database Design

3.1.1 E-R Diagram

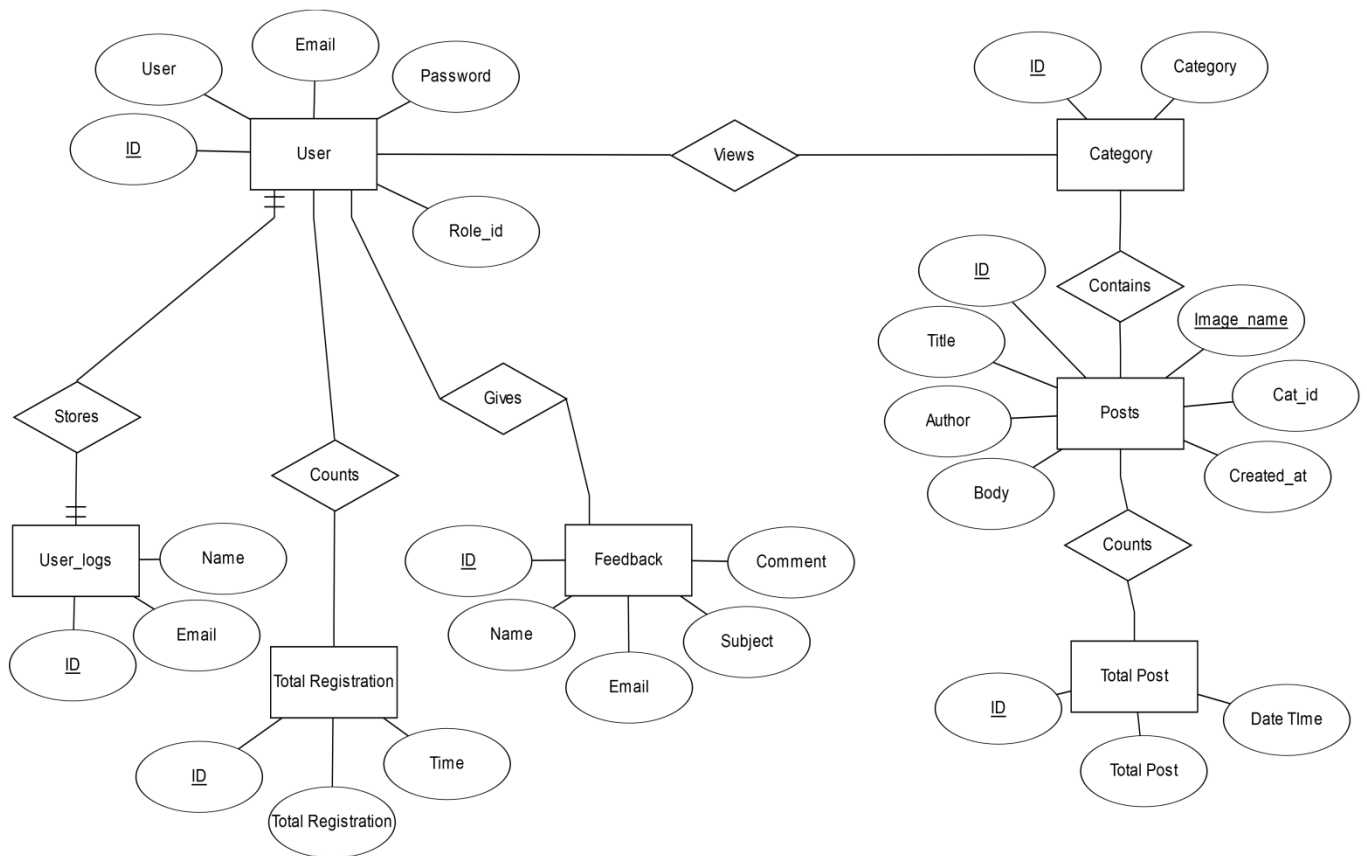


Fig 3.1 E-R diagram for News Management

3.1.2 Database Schema

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> cat_post	★ Browse Structure Search Insert Empty Drop	6	InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> contact	★ Browse Structure Search Insert Empty Drop	3	InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> posts	★ Browse Structure Search Insert Empty Drop	8	InnoDB	latin1_swedish_ci	32 KiB	-
<input type="checkbox"/> totalpost	★ Browse Structure Search Insert Empty Drop	1	InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> totalregistrations	★ Browse Structure Search Insert Empty Drop	1	InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> users	★ Browse Structure Search Insert Empty Drop	7	InnoDB	latin1_swedish_ci	32 KiB	-
<input type="checkbox"/> user_logs	★ Browse Structure Search Insert Empty Drop	5	InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> user_role	★ Browse Structure Search Insert Empty Drop	2	InnoDB	latin1_swedish_ci	16 KiB	-
8 tables	Sum	33	InnoDB	latin1_swedish_ci	160 KiB	0 B

Figure 3.1.2.1 Database Schema

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id 🔑	int(11)			No	None		AUTO_INCREMENT	✎ Change ⛔ Drop ▼ More
<input type="checkbox"/> 2	user	tinytext	latin1_swedish_ci		No	None			✎ Change ⛔ Drop ▼ More
<input type="checkbox"/> 3	email	tinytext	latin1_swedish_ci		No	None			✎ Change ⛔ Drop ▼ More
<input type="checkbox"/> 4	pwd	longtext	latin1_swedish_ci		No	None			✎ Change ⛔ Drop ▼ More
<input type="checkbox"/> 5	role_id 🔑	int(11)			Yes	NULL			✎ Change ⛔ Drop ▼ More

Figure 3.1.2.2 User Database

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id 🔑	int(11)			No	None		AUTO_INCREMENT	✎ Change ⛔ Drop ▼ More
<input type="checkbox"/> 2	title	varchar(225)	latin1_swedish_ci	Yes	NULL				✎ Change ⛔ Drop ▼ More
<input type="checkbox"/> 3	body	text	latin1_swedish_ci	Yes	NULL				✎ Change ⛔ Drop ▼ More
<input type="checkbox"/> 4	author	varchar(225)	latin1_swedish_ci	Yes	NULL				✎ Change ⛔ Drop ▼ More
<input type="checkbox"/> 5	created_at	timestamp		No	current_timestamp()			ON UPDATE CURRENT_TIMESTAMP()	✎ Change ⛔ Drop ▼ More
<input type="checkbox"/> 6	cat_id 🔑	int(11)		Yes	NULL				✎ Change ⛔ Drop ▼ More
<input type="checkbox"/> 7	img_name	varchar(255)	latin1_swedish_ci	Yes	NULL				✎ Change ⛔ Drop ▼ More

Figure 3.1.2.3 Post Database

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id	int(11)			No	None			Change Drop More
<input type="checkbox"/> 2	category	varchar(20)	latin1_swedish_ci		Yes	NULL			Change Drop More

Figure 3.1.2.4 Category Post

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/> 2	totalpost	int(11)			No	None			Change Drop More
<input type="checkbox"/> 3	date_time	timestamp			No	current_timestamp()		ON UPDATE CURRENT_TIMESTAMP()	Change Drop More

Figure 3.1.2.5 Total Post

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/> 2	totalregistration	int(11)			No	None			Change Drop More
<input type="checkbox"/> 3	time	timestamp			No	current_timestamp()		ON UPDATE CURRENT_TIMESTAMP()	Change Drop More

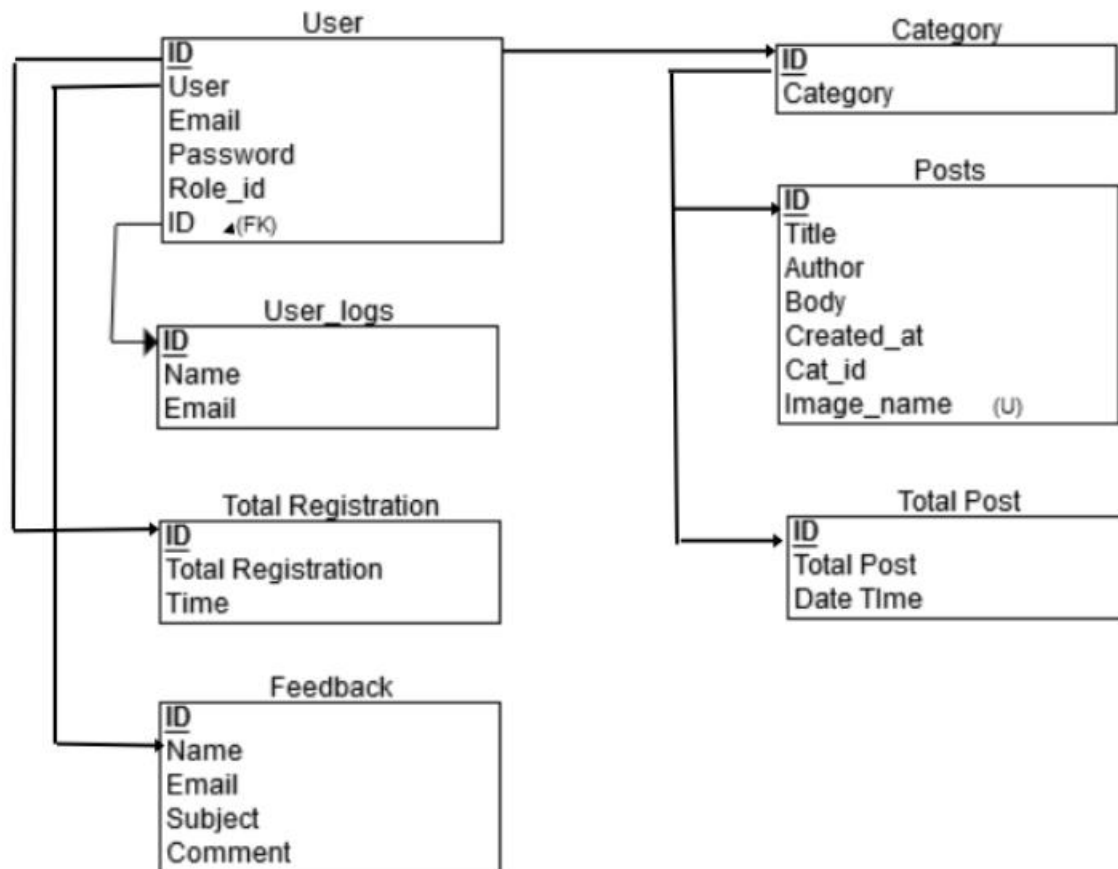
Figure 3.1.2.6 Total Registration

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id	int(3)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/> 2	name	varchar(20)	latin1_swedish_ci		No	None			Change Drop More
<input type="checkbox"/> 3	email	varchar(20)	latin1_swedish_ci		No	None			Change Drop More
<input type="checkbox"/> 4	created_at	timestamp			No	current_timestamp()		ON UPDATE CURRENT_TIMESTAMP()	Change Drop More

Figure 3.1.2.7 User Log

3.1.3 Relational Schema

Database: News Management System



News Management Schema

3.2 Database Normalization

3.2.1 First Normal Form

All the Relations are designed in such a way that it has no repeating groups. Hence all tables are in 1st Normal Form.

3.2.2 Second Normal Form

A relation is said to be in second normal form if it is already in first normal form and it has no partial dependency. All the tables in the database are designed in such a way that there is no partial dependency. Hence all tables are in 2nd Normal Form.

3.2.3 Third Normal Form

A relation is said to be in third normal form if it is already in 1st and 2nd Normal Form and has no transitive dependency. All the tables in the database are designed in such a way that there is no transitive dependency. Hence all tables are in 3rd Normal Norm.

3.3 User Interface

The User Interface of the News Management System is divided into two parts:

1. User Module - For the users
2. Admin Module – For the admin/owner(employee)



Figure 3.3.1 Welcome Page

Figure 3.3.2 Feedback Form

User

Log in

LOGIN

Hello, Friend!

Enter your personal details and start journey with us

SIGN UP

Figure 3.3.3 User Login

User

Welcome Back!

To keep connected with us please login with your personal info

SIGN IN

Create Account

SIGN IN

Figure 3.3.4 User Sign In

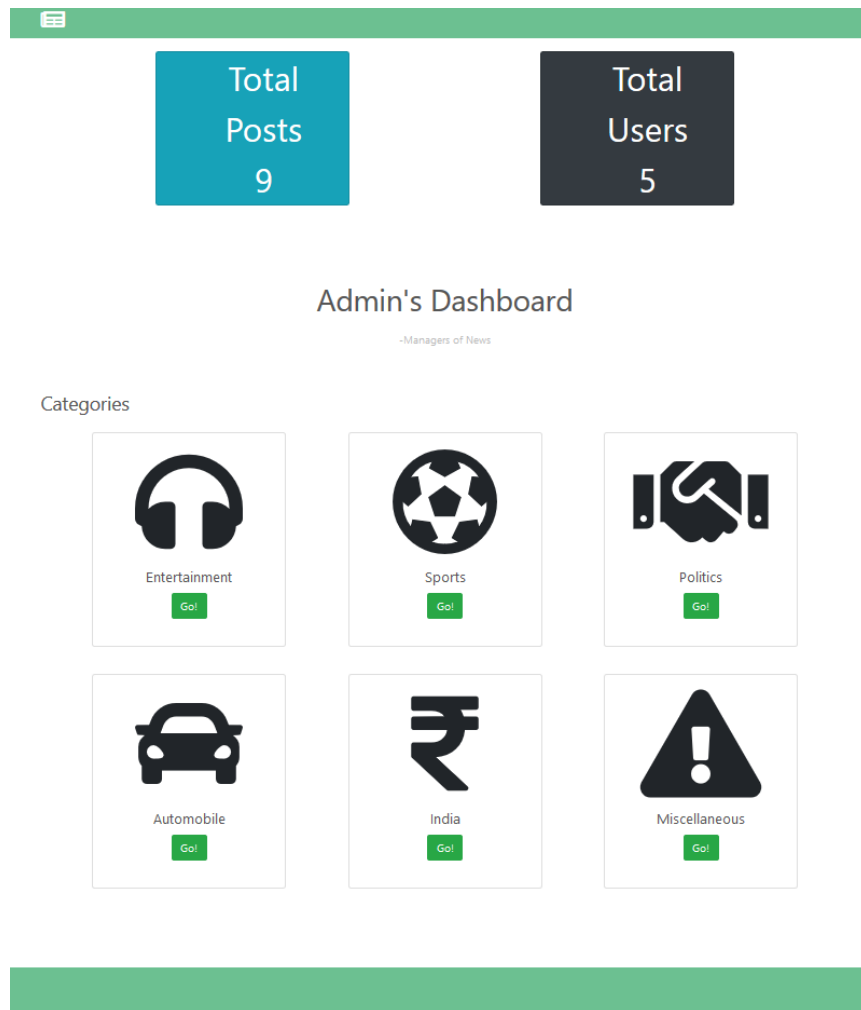


Figure 3.3.5 User Dashboard

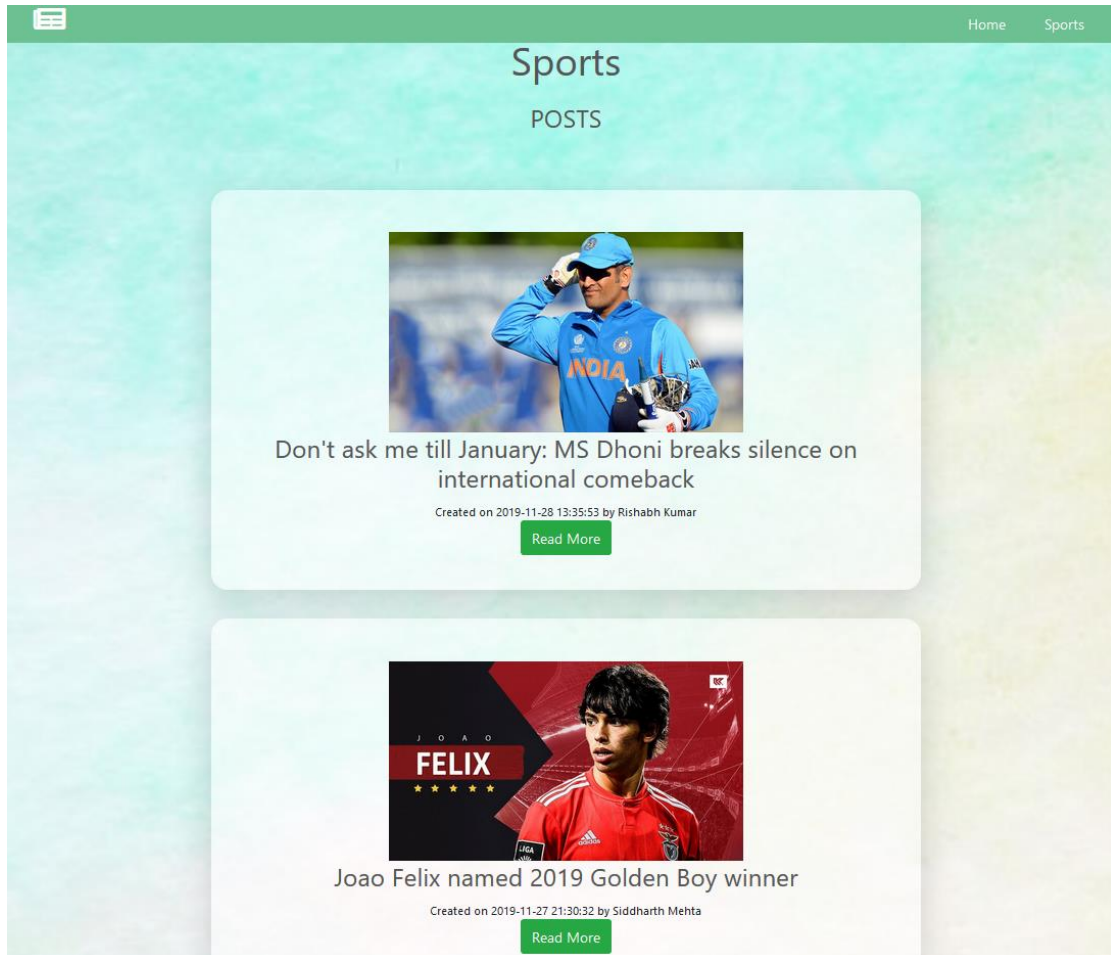


Figure 3.3.6 User News

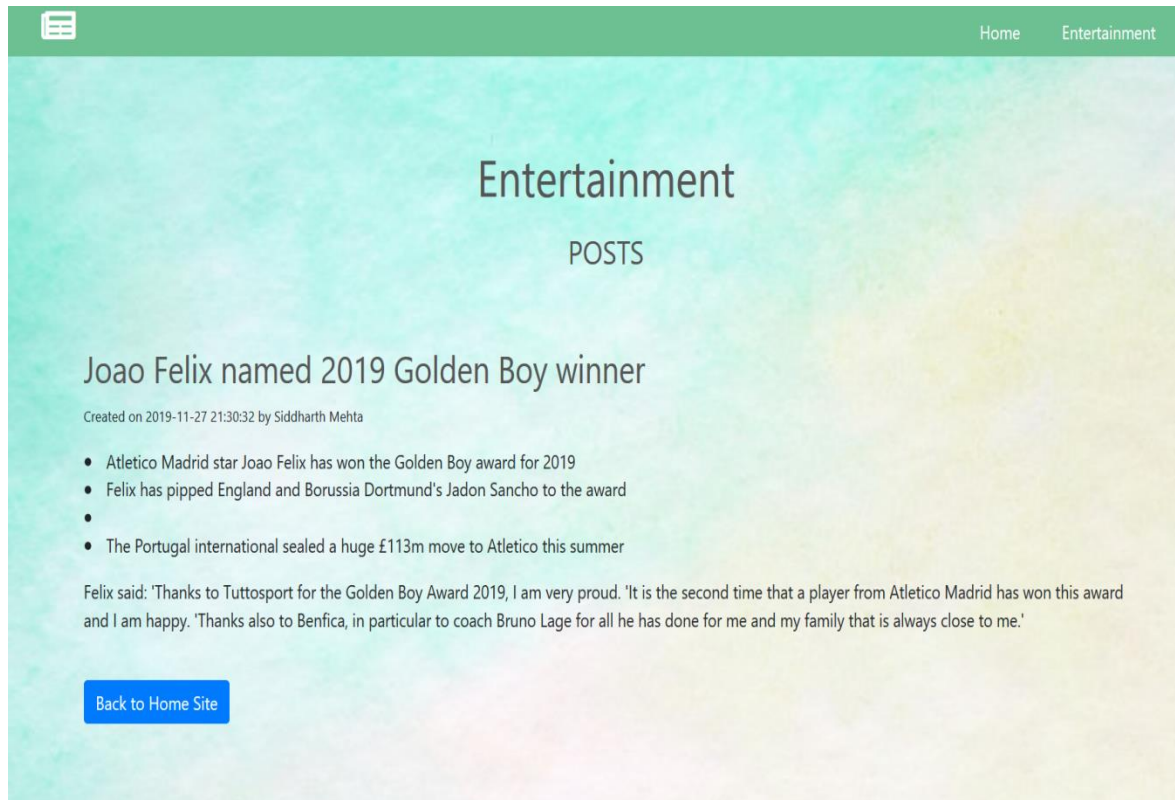


Figure 3.3.7User Post

Editor

Log in

LOGIN

Hello, Friend!

Enter your personal details and start journey with us

SIGN UP

Figure3.3.8 Admin login

Editor

Welcome Back!

To keep connected with us please login with your personal info

SIGN IN

Create Account

SIGN IN

Figure 3.3.9 Admin Sign In

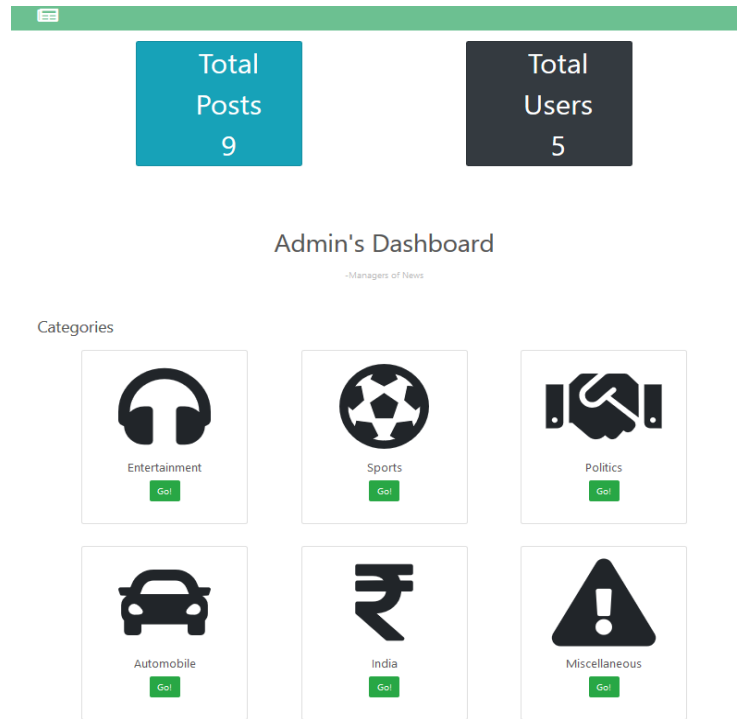


Figure 3.3.10 Admin Dashboard

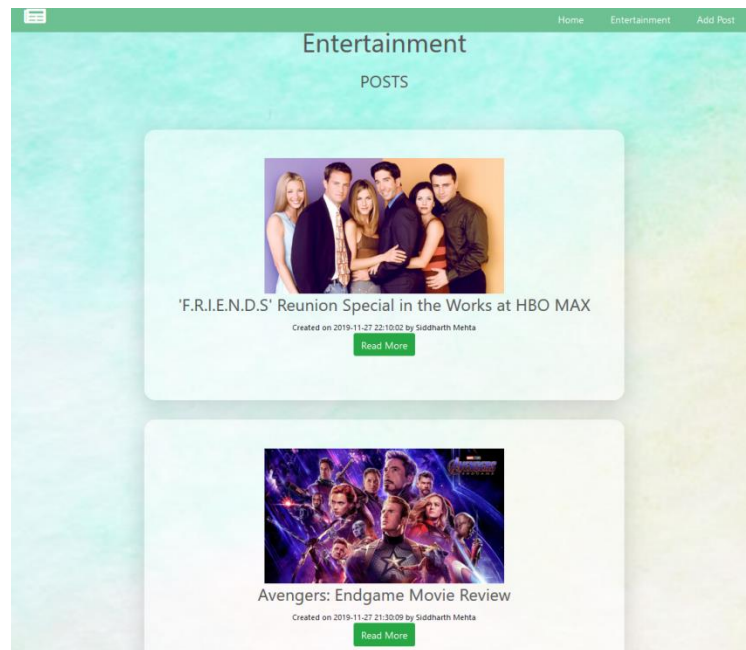


Figure 3.3.11Admin Post

[Home](#) [Entertainment](#) [Add Post](#)

Add Posts

Title

'F.R.I.E.N.D.S.' Reunion Special in the Works at HBO MAX

Author

Siddharth Mehta

Body

As mega-hit Friends continues to celebrate its 25th anniversary, sources tell The Hollywood Reporter that the six core stars and the creators of the NBC comedy from Warner Bros. TV are in talks to reunite on HBO Max.

Talks are currently underway for an unscripted reunion special that would feature Jennifer Aniston, Courteney Cox, Lisa Kudrow, Matt LeBlanc, Matthew Perry and David Schwimmer, as well as series creators David Crane and Marta Kauffman. Sources caution that a deal is far from done and agreements with cast and creatives still need to be hammered out.

SUBMIT

Figure3.3.12 Admin Edit

[Home](#) [Entertainment](#) [Add Post](#)

Entertainment

Add Posts

Title

Title

Author

Author

Body

Body

SUBMIT

Figure3.3.13 Admin new post

CHAPTER 4

IMPLEMENTATION

4.1 User Registration Module

Process Name	: User Registration
Process Number	: 1.1
Input	: Username : Email : Password : Repeat Password
Output	: Status Message
Error Condition	: Username Already Exists : Passwords do not match : All Fields are Required

Process Name	: User Login
Process Number	: 1.2
Input	: Username : Password
Output	: Login
Error Condition	: Invalid Username or Password : All Fields are Required

4.2 User Operation Module

Process Name	: Give Feedback
Process Number	: 2.1
Input	: Name : Email : Subject :Feedback
Output	: Status Message
Error Condition	: All Fields are Required

Process Name	: Select Category
Process Number	: 2.2
Output	: View the contents of category
Error Condition	: All Fields are Required

Process Name	: Select Post
Process Number	: 2.3
Output	: View the contents of posts
Error Condition	: Updating database unsuccessful

4.3 Admin Registration Module

Process Name	: Admin Sign up
Process Number	: 3.1
Input	: Username : Password : Password : Repeat Password
Output	: Status Message
Error Condition	: Invalid Username : Invalid Password : All Fields are Required

Process Name	: User Login
Process Number	: 1.2
Input	: Username : Password
Output	: Login
Error Condition	: Invalid Username or Password : All Fields are Required

4.4 Admin Operation Module

Process Name	: Add Post
Process Number	: 4.1
Input	: Title : Author : Body
Output	: Status Message
Error Condition	: All Fields are Required

Process Name	: Update Post
Process Number	: 4.2
Input	: Title : Author : Body
Output	: Status Message
Error Condition	: All Fields are Required

Process Name	: Delete Post
Process Number	: 4.3
Output	: Status Message

Stored Procedure:

Post By Title ID

1) Get the names of all the posts in a particular category in the News Portal when the Category ID is inserted.

Post By Title Name

2) Get the names of all the posts in a particular category in the News Portal when the Category Name is inserted

Trigger:

Total Post

1) Trigger counts the total number of posts in all the categories of the News Portal and returns the value in DashBoard of Admin and User.

Total Registration

2) Trigger counts the total number of users registered in the News Portal and returns the value in DashBoard of Admin and User.

Logs

3) Trigger inserts user values (name, email, time and date of submission) when a user signs up for the first time to the NewsPortal.

CHAPTER 5

SOURCE CODE

Code to add entertainment.php:

```
<?php
    require('config/config.php');
    require('config/db.php');

    if(isset($_POST['addpost-submit'])){
        $title=mysqli_real_escape_string($conn,$_POST['title']);
        $body=mysqli_real_escape_string($conn, $_POST['body']);
        $author=mysqli_real_escape_string($conn,
$_POST['author']);

        $query= "Insert into posts (title,author,body,cat_id)
values ('$title','$author','$body',1)";

        if(mysqli_query($conn, $query)){
            header('Location:'.ROOT_URL.'entertainment.php');
        }else{
            echo 'Error';
        }
    }
?>

<!DOCTYPE HTML>
<html>
    <head>

        <title>Entertainment</title>
        <meta charset="utf-8" />
```

```

</head>

<body>
<header>
    <a href="../../../index.html" class="logo"><i class="fa fa-
newspaper-o fa-2x" aria-hidden="true"></i>
    <a class="navbar-brand" href="<?php echo
ROOT_URL?>dashboard.php">Home</a>
    <a class="navbar-brand" href="<?php echo
ROOT_URL?>entertainment.php">Entertainment</a>
    <a class="navbar-brand" href="<?php echo
ROOT_URL?>add_entertainment.php">Add Post</a>
    <a href="#navPanel" class="navPanelToggle"><span class="fa
fa-bars"></span></a></header>
<h2>Add Posts</h2>
<form method="POST" action="<?php $_SERVER['PHP_SELF'];?>">

    <label>Title</label>
    <input type="text" name="title" class="form-control" placeholder="Title">

    <label>Author</label>
    <input type="text" name="author" class="form-control" placeholder="Author">

    <label>Body</label>

    <textarea id="demo-message" rows="6" name="body" class="form-control"
placeholder="Body"></textarea>

    <input type="submit" name="addpost-submit" value="submit" class="btn btn-
primary">
</form>

</body>
</html>

```

Source code to edit entertainment.php

```
<?php
require('config/config.php');
require('config/db.php');

if(isset($_POST['delete-submit'])) {
    $delete_id=mysqli_real_escape_string($conn,$_POST['delete_id']);
    $query="Delete from posts where id={$delete_id}";

    if(mysqli_query($conn, $query)){
        header('Location:'.ROOT_URL.'entertainment.php');
    }else{
        echo 'Error';
    }
}

$id = mysqli_real_escape_string($conn, $_GET['id']);
$query= 'Select* from posts where id='.$id;
$result=mysqli_query($conn,$query);
$POST=mysqli_fetch_assoc($result);
mysqli_free_result($result);
mysqli_close($conn);
?>

<!DOCTYPE HTML>
<html>
    <head>
        <title>Entertainment</title>
        <meta charset="utf-8" />
    </head>
    <body>
        <header>
```

```

        <a href="../../../index.html" class="logo"><i class="fa fa-
newspaper-o fa-2x" aria-hidden="true"></i>
        <a class="navbar-brand" href="<?php echo
ROOT_URL?>dashboard.php">Home</a>
        <a class="navbar-brand" href="<?php echo
ROOT_URL?>entertainment.php">Entertainment</a>
        <a class="navbar-brand" href="<?php echo
ROOT_URL?>add_entertainment.php">Add Post</a>
        <a href="#navPanel" class="navPanelToggle"><span class="fa
fa-bars"></span></a>
    </header>

    <strong><h2>Entertainment</h2></strong>
    <h3>POSTS</h3>
    <strong><h2><?php echo $POST['title']; ?></h2></strong>
    <small>Created on <?php echo $POST['created_at'];?> by <?php echo
$POST['author']; ?></small>
    <p><?php echo $POST['body']; ?></p>
    <a class="btn btn-primary" href="<?php echo
ROOT_URL?>entertainment.php">Back to Home Site</a> <br>
    <a class="btn btn-success" href="<?php echo
ROOT_URL?>edit_entertainment.php?id=<?php echo $POST['id'];?>" >Edit
Post</a>

    <form method="POST" action="<?php echo $_SERVER['PHP_SELF'];?>">
    <input type="hidden" name="delete_id" value="<?php echo
$POST['id'];?>">
    <object align="right"><input type="submit" name="delete-submit"
value="delete" class="button special"></object>
    </form>
</body>
</html>

```

Triggers:

- Insert into user_logs values(null, new.user, new.email, Now());
- Update totalpost set totalpost=(select count(*) from posts)
- Update totalregistrations set totalregistration= (select count(*) from users where role_id=1);

Stored Procedure:

- Select title from posts where cat_id= category;
- Select title from posts p, cat_post c where p.cat_id=c.id and c.category=category;

CHAPTER 6

CONCLUSION AND FUTURE WORK

In our project work, an attempt has been made to develop a news or information based web site. We develop this project that helps the people and make them aware so that they can know any news. To establish this website we use various methodologies. To develop this project we have faced many problem but we hardly tried to develop this project. Our supervisor helps us by giving his valuable opinion, decision and time.

6.1 Future Enhancements

In a nutshell, it can be summarized that the future scope of the project circles around maintaining information regarding:

- We can add printer in future.
- We can give more advance software for Online News Portal including more facilities
- We will host the platform on online servers to make it accessible worldwide
- Integrate multiple load balancers to distribute the loads of the system
- Create the master and slave database structure to reduce the overload of the database queries
- Implement the backup mechanism for taking backup of codebase and database on regular basis on different servers

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- <http://www.geeksforgeeks.com/>

PHP Learning:

- <http://www.tutorialspoint.com/php/>
- <https://killerphp.com>
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