VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI-590018

A

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

Submitted by

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini-project work entitled **"NEWS PORTAL"** has been successfully carried out by **RAHUF KHAN, AKSHAY BABU, SANTOSH,** a Bonafide work carried out by me at **Lingaraj Appa Engineering College** in partial fulfillment of the requirements for the award of degree in **Bachelor of Engineering in Computer Science and Engineering** of **Visvesvaraya Technological University, Belagavi** during academic year 2022-2023. The mini-project report has been approved as it satisfies the academic requirements in respect of project work for the said degree.

Prof. Neelambika	**Prof.Veeresh Biradar**	**Dr. Vinita B. Patil**
GUIDE	HOD	PRINCIPAL

EXTERNAL VIVA

Name of the Examiners   **Signature with Date**

1.

2.

ACKNOWLEDGMENT

The satisfaction that I feel at the successful completion of my Mini project, **"NEWS PORTAL"** would be incomplete if I did not mention the people, whose able guidance and encouragement, crowned my efforts with success. It is my privilege to express my gratitude and respect to all those who inspired and helped me in the completion of my mini- project. All the expertise in this mini project belongs to those listed below.

I express my sincere thanks to our President **Poojya Dr. SharanbaswappaAppaji** and Secretary **Shri. Basavaraj Deshmukh** for providing all the required facilities for the completion of the mini project.

I express my sincere thanks to our beloved Principal **Dr. Vinita B. Patil,** LAEC, Bidar forgiving me an opportunity to carry out my academic mini project.

I am greatly indebted to **HOD prof. Veeresh Biradar**, Computer Science and Engineering Department, LAEC, Bidar for facilities and support extended to me.

I express my deepest gratitude and thanks to my guide Assistant, **Prof.Neelambika** LAEC, Bidar for giving his valuable cooperation and excellent guidance in completing the project.

I express my sincere thanks to all the teaching & non teaching staff of Computer Science and Engineering Department and our friends for their valuable cooperation during the development of my mini-project.

Finally, I convey my sweet thanks to my beloved parents who supported me to pursue higher studies and providing me a pleasant environment at home to complete the mini-project in time.

Date

Place: Bidar

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DECLARATION

This is to declare that the Dissertation work entitled **"NEWS PORTAL"** is a Bonafede work carried out by **RAHUF KHAN, SANTOSH, AKSHAY BABU**, at **LAEC, Bidar** in the partial fulfillment of the requirements for the award of the degree of **BECHELOR OF ENGINEERING IN COMPUTER SCIENCE AND ENGINEERING** of **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI**, under the guidance of Prof. Neelambika,Asst. Professor, LAEC Further it is declared to the best of my knowledge that the work reported here in, does not form part of any other thesis or dissertation on the basis of which any other candidate was conferred a degree or award on earlier occasion.

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PLACE: BIDAR

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Contents

ABSTRACT

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. This is the revolutionary time of computer 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. At present information is one the most valuable resource of the current world. We have developed our project so that we can aware the people.

CHAPTER 1

Introduction

A lot of project work has carried on Online News Portal System. At the present time, Online News Portal websites are available. But most of this website is static and traditional. There is no feature that can make people awareness. This is why we have done this project. Our project has many features that can aware the people. By using this website one can get more and more information that helps the people in their daily life

In this project we have develop an Online News Portal website. It is a dynamic system. It can be maintain and changed easily because it is based on database. It's contain web pages that are generated in real-time. These pages include Web scripting code, such as PHP. It is fully secured from unauthorized access. In a word it can say that our Online News Portal website is a completely dynamic website.

To create the software, we have worked on all possible types of basic codes used for principle design based on mainly on PHP, CSS and HTML. Here we have used incremental model to create the software. We have collected all kinds of information related to this software from the customer. Actually it is one kind of Customized software products.

The project background model specially designed on the basis of certain web programming language like PHP, MYSQL, HTML, CSS etc. In following section here we are going to give a brief description about this language in this project.

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CHAPTER 2

SCOPE/OBJECTIVE OF THE PROJECT

➢ The objective of this project is to develop a web application for Online News Paper website that can aware the people

➢ The objective of this project is to provide the daily news.

➢ The objective of this project is to provide the breakingnews.

➢ It makes use of various technologies to get required crime oriented information more quickly, easily, colorfully and attractively.

➢ To do this 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.

➢ Dynamically provides facility.

➢ To add any new information without any complexity.

CHAPTER 3

PROJECT REVIEW

3.1 Project management

Project management skills are put to good use for this project. Having gone through project management module sin Time Series Analysis, Optimization and with two interns Project Management for Business and IT respectively, they enhanced my knowledge on managing a project. Project management focuses on achieving the objectives by applyingfive processes presented in Figure below.
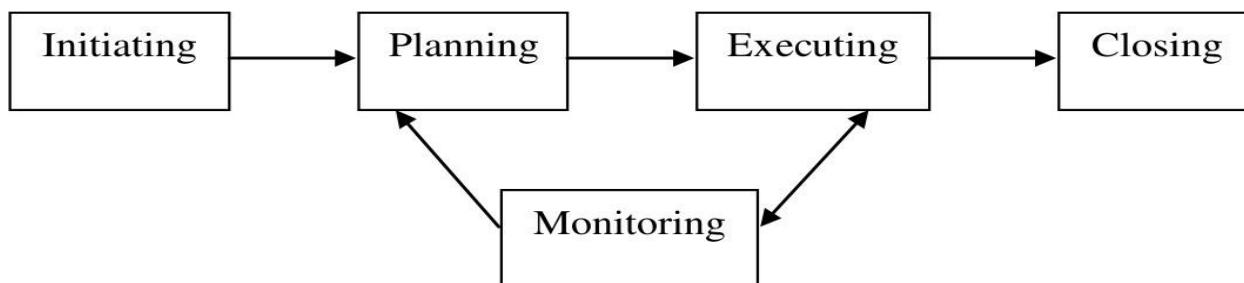
Figure: Project Development Phases

Figure: Project Development Phases

3.2 News Portal

The basic idea here is that instead of freezing the requirements before a design or coding can proceed, a throwaway prototype is built to understand the requirements. This prototype is developed based on the currently known requirements. By using this prototype, the client can get an "actual feel" of the system, since the interactions with prototype can enable the client to better understand the requirements of the desired system. Prototyping is an attractive idea for complicated and large systems for which there is no manual process or existing system to help determining the requirements. The prototypes are usually not complete systems and many of the details are not built in the prototype. The goal is to provide a system with overall functionality.

CHAPTER 4

RESOURCES

4.1 System Development lifecycle

Systems Development Life Cycle (SDLC) is the most common process adopted to develop a project and not surprisingly, this project is following this model too. To be precise, waterfall model is being applied, Waterfall model is a sequential model process where the input of a phase actually results from the previous phase.
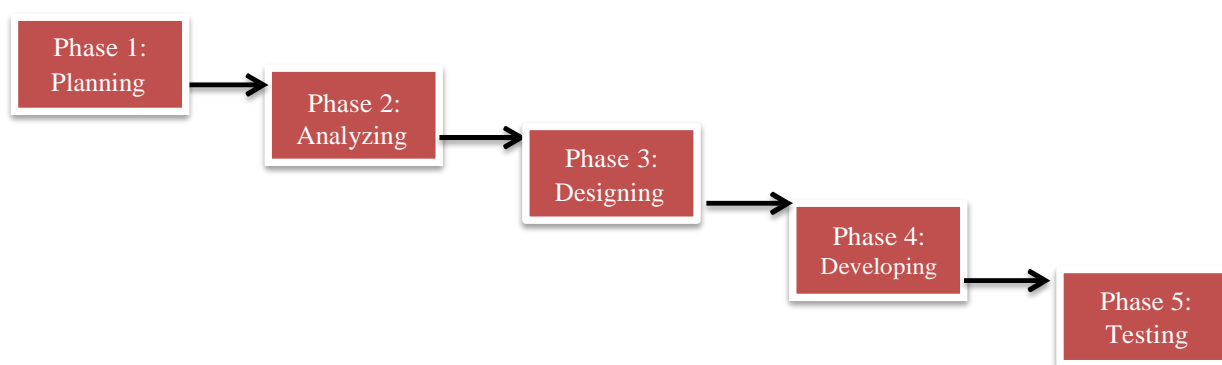

Figure: SDLC Phases

There are five phases in this model and the first phase is the planning stage. The planning stage determines the objectives of the project and whether the project should be given the green light to proceed. This is where the proposal submission comes in to picture. After obtaining the approval, the next phase is analysis.

Gathering and analyzing the system and user requirements is essential for entry to the design step.

With the user requirements gathering completed, there is a need to prepare the resources for the project. Be it software or hardware components, careful consideration and selection is to be taken care at this stage. The decision on the appropriate resources to be used is further elaborated under the subsections below. The next step is to design the system and database structure.

Results from the analysis and preparation that were concluded from the previous stage are put into action. With the user requirements in mind, the flow of the system is planned and the user interface is designed to suit their easy navigation needs. In addition, the number of tables, attributes, primary and unique keys of the database is listed.

After completing the design, actual coding begins. Database is created and codes are written. Some of thecodes required amendments and improvement to it so these are being developed at this fourth stage of thewaterfall model. With the development completed, testing will begin. The codes and database are tested to ensure the results obtained areas intended. More time is spent on both development and testing stages because it is inevitable to have errors and issues and buffer time is allocated for trouble shooting.

4.2 Scripting language selection

There are many scripting languages available in the market. VBScript, Perl, JSP (Java Server Pages), ASP (Active Server Pages) and PHP (Hypertext Pre-processor) are some of those commonly used. Yet for this project, PHP is the language that is utilized for the coding piece because it is a server-side, embeddable HTML language. Being awidely-used open source scripting language, it is free for everyone to use and is especially suited for web development. On top of that, the existing system is already using PHP. There are many advantages for using PHP thus no need for the switch to another scripting language.

Other than being a freeware, there are many free upgrade packages easily available. The other benefit of choosing PHP is the ease in installation. It can run as a plug in on quite a number of web servers such as the Apache. On the other hand, JSP requires J2EE server to run and because it is a Java coded language, itis therefore more complex to understand and to do coding

Further exploring on the processing speed against ASP, PHP is interpreted at run-time and not compiled into memory whereas ASP is more memory intensive with each ASP language compiler running in its own processes. This results in slower processing speed for ASP. In addition, ASP runs more reliably only on Microsoft Windows-based web servers than other webservers

In conclusion, PHP is the preferred selection due to the ease of usage and it can be uploaded and run on another platform with minimal change required to be done to the script. Beyond and above, the compiling time and speed for PHP is faster and more efficient.

The Front-End used in this project is HTML along with the CSS language. HTML is the standard markup language for creating Web pages.

- HTML stands for Hyper Text Markup Language.

- HTML describes the structure of Web pages using markup.

- HTML elements are the building blocks of HTML pages.

- HTML elements are represented by tags.

- HTML tags label pieces of content such as "heading", "paragraph", "table", and so on Browsers do not display the HTML tags, but use them to render the content of the page.

Advantages of HTML:

1. The first advantage it is widely used.

2. Every browser supports HTML language.

3. Easy to learn and use.

4. It is by default in every window so you don't need to purchase extra software.

5. You can integrate HTML with CSS, JavaScript, php etc.

The back-end database used in this project is MySQL

It is a language used to interrogate and process data in a relational database. Originally developed by IBM for its mainframes, SQL commands can be used to interactively work with a database or can be embedded within a script or programming language as an interface to a database. Programming extensions to SQL have turned it into a full-blown database programming language, and all major database management systems (DBMSs) support it.

ANSI standardized SQL. But most DBMSs have some proprietary enhancement, which if used, makes SQL non- standard. Moving an application from one SQL database to another sometimes requires tweaking, the age-old problem in this business!

Advantages of My SQL:

1. SQL Queries can be used to retrieve large amounts of records from a data base quickly.

2. SQL is used to view the data without storing the data into the object

3. SQL joins two or more tables and show it as one object touser

4. SQL databases use long-established standard, which is being adopted by ANSI & ISO. Non-SQLdatabases do not adhere to any clear standard.

5. Using standard SQL, it is easier to manage database systems without having to write substantial amount ofcode.

4.3 Programming Language

PHP

- ✓ PHP stands for PHP: Hypertext Preprocessor
- ✓ PHP is a server-side scripting language, like ASP
- ✓ PHP scripts are executed on the server
- ✓ PHP supports many databases (MYSQL, Informix, Oracle, Sybase, Solid, GenericODBC, etc.)
- ✓ PHP is an open source software
- ✓ PHP is free to download and use

MYSQL

- ✓ MYSQL is a database server
- ✓ MYSQL is ideal for both small and large applications
- ✓ MYSQL supports standard SQL
- ✓ MYSQL compiles on a number of platforms
- ✓ MYSQL is free to download and use

CSS

- ✓ Cascading Style Sheets (CSS)
- ✓ Simple mechanism
- ✓ Easy for adding style (e.g., fonts, colors, spacing) to Web documents.

HTML

- ✓ Hypertext Markup Language (HTML)
- ✓ It is markup language for Web pages.
- ✓ Used to create skeleton of the Web Page

CHAPTER 5

SYSTEM SPECIFICATION

Software requirements :

Tools used   :   XAMPP

Programming languages   :   PHP

Front end design   :   HTML, CSS

Database   :   MYSQL

Hardware Requirements

Processor   :   Intel dual Core,i3

Ram   :   4 GB

Hard disk   :   500 GB

CHAPTER 6

ER Diagram:

The Entity-Relationship (ER) model was originally proposed by Peter in 1976 [Chen76] as a way to unify the network and relational database views. Simply stated the ER model is a conceptual data model that views the real world as entitiesand relationships. A basic component of the model is the Entity-Relationship diagram which is used to visually represent data objects. Since Chen wrote his paper the model has been extended and today it is commonly used for database design for the database designer, the utility of the ER model is:

- It maps well to the relational model. The constructs used in the ER modelcan easily be transformed into relational tables.
- It is simple and easy to understand with a minimum of training. Therefore,the model can be used by the database designer to communicate the designto the end user.
- In addition, the model can be used as a design plan by the database developer to implement a data model in specific database managementsoftware.
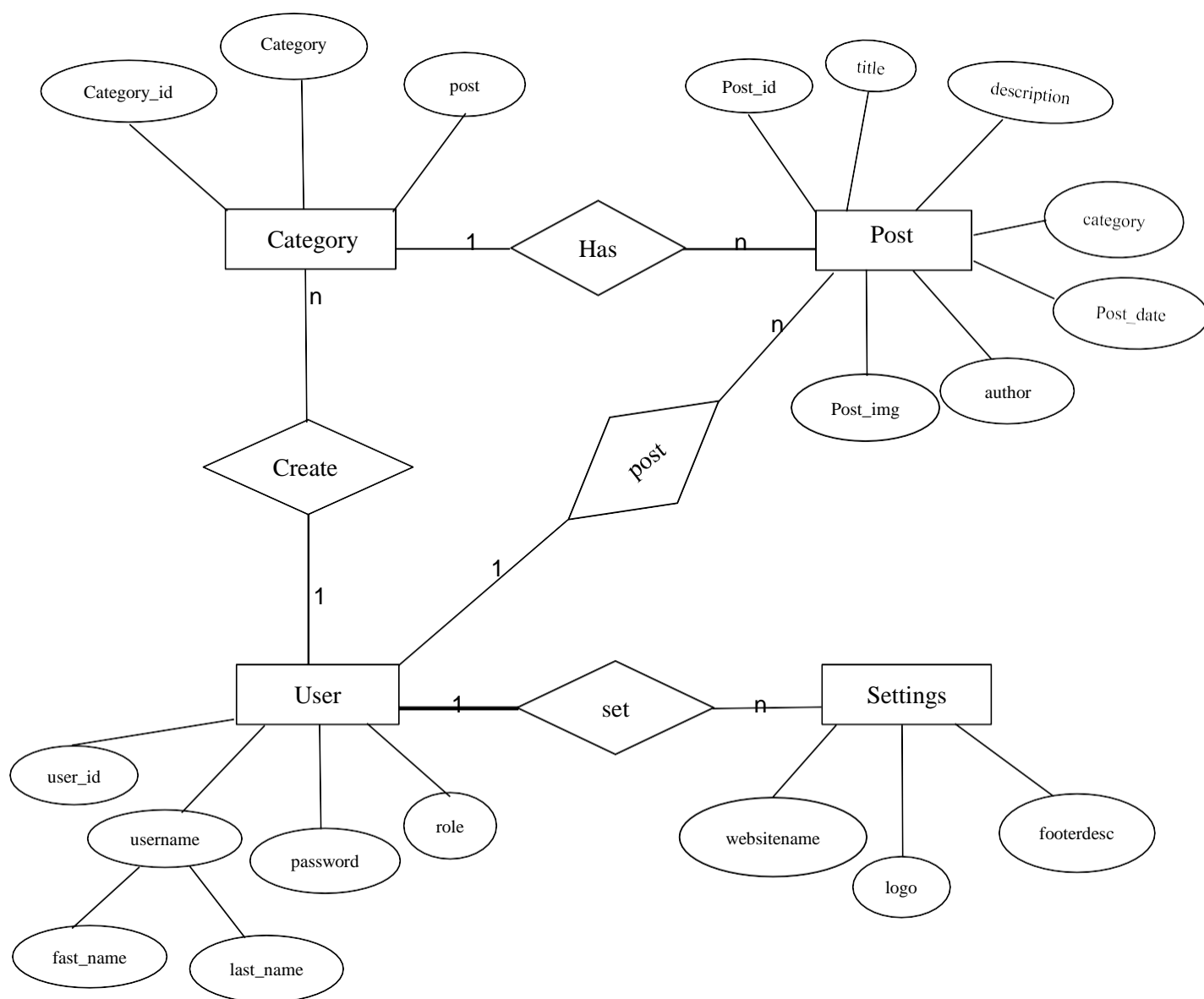
ER Notation

There is no standard for representing data objects in ER diagrams. Each modelingmethodology uses its own notation. The original notation used by Chen is widely used in academics texts and journals but rarely seen in either CASE tools or publications by non-academics. Today, there are a number of notations used; among the more common are Bachman, crow's foot, and IDEFIX.

All notational styles represent entities as rectangular boxes and relationships as lines connecting boxes. Each style uses a special set of symbols to represent the cardinality of a connection. The notation used in this document is from Martin. Thesymbols used for the basic ER constructs are:

- **Entities** are represented by labeled rectangles. The label is the name of the entity. Entity names should be singular nouns.

- **Relationships** are represented by a solid line connecting two entities. The name of the relationship is written above the line. Relationship names should be verbs

- **Attributes**, when included, are listed inside the entity rectangle. Attributes which are identifiers are underlined. Attribute names should be singular nouns.

- **Cardinality** of many is represented by a line ending in a crow's foot. If the crow's foot is omitted, the cardinality is one.

Existence is represented by placing a circle or a perpendicular bar on the line. Mandatory existence is shown by the bar (looks like a 1) next to the entity for an instance is required. Optional existence is shown by placing a circle next to the entity that is optional.

ER Diagram

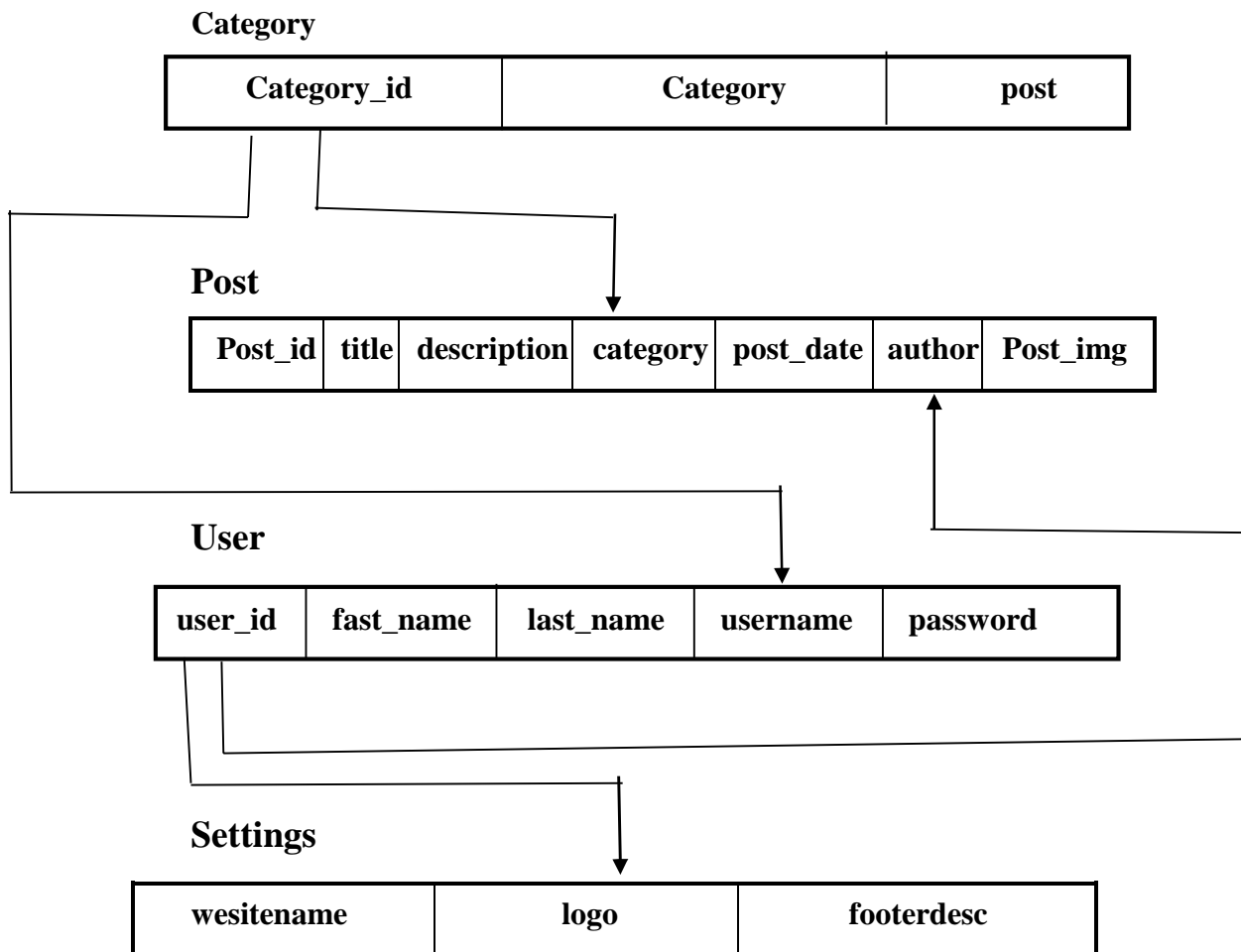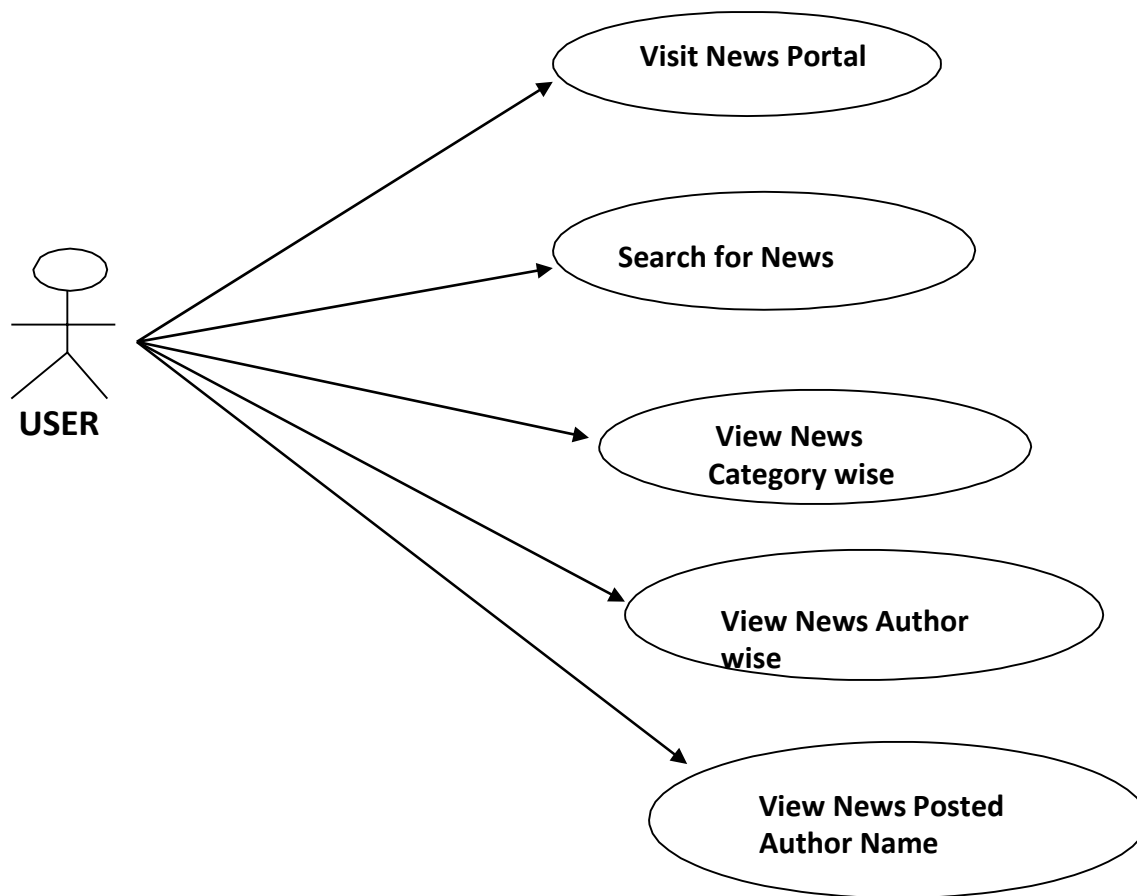**Figure : ER Diagram**

Schema diagram

Category

Category_id	Category	post

Post

Post_id	title	description	category	post_date	author	Post_img

User

user_id	fast_name	last_name	username	password

Settings

wesitename	logo	footerdesc

Figure : Schema diagram

User Case Diagram

Figure : User Case

Admin Case Diagram

login

Admin
Dashboard

Update own
Password

Add User/ Update/
Delete

Create Category/
Update/ Delete

Post News/
Update/ Delete

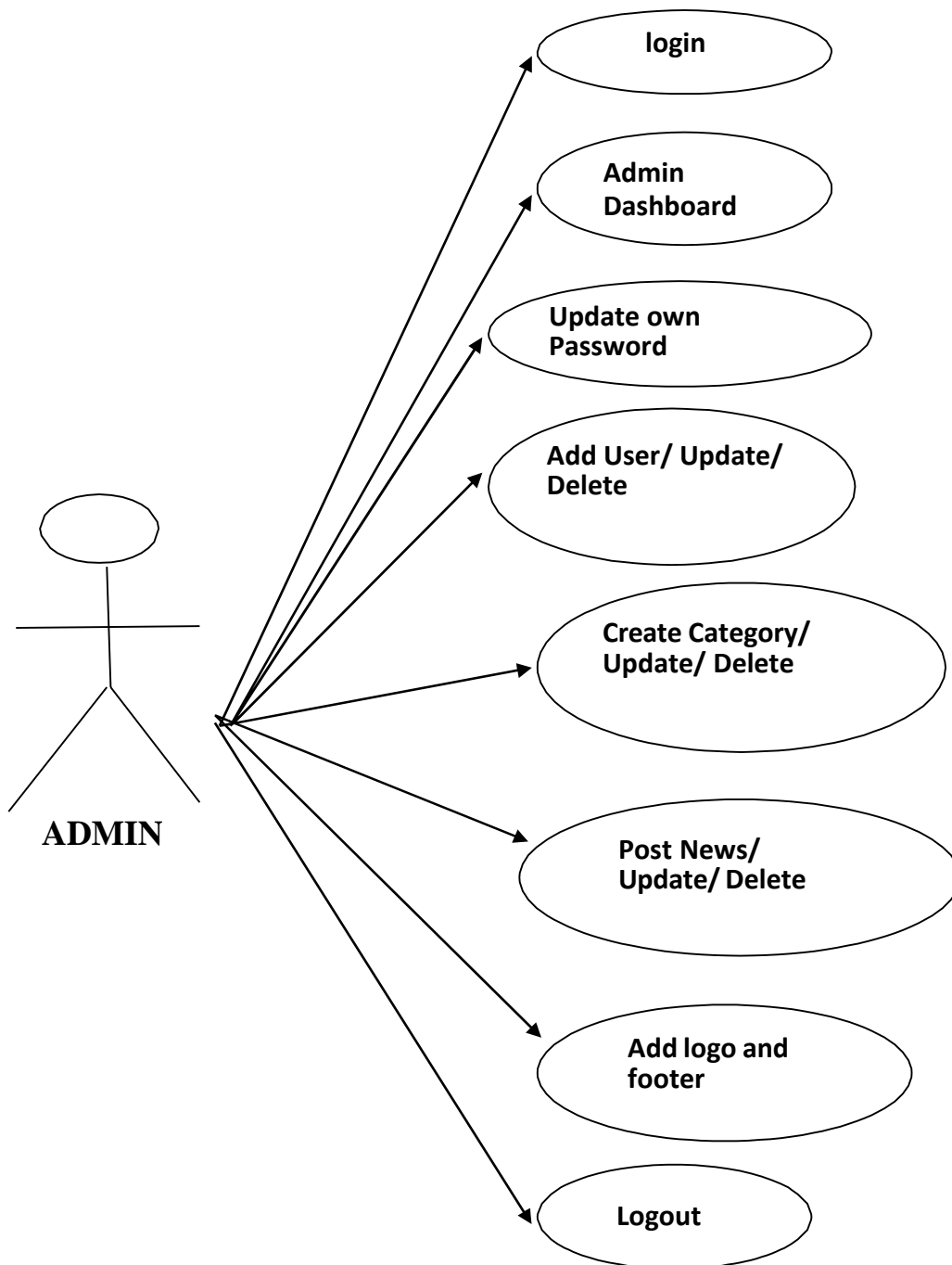Add logo and
footer

Logout

ADMIN

Figure : Admin Case Diagram

6.1 User Panel Design

In user panel design we have done our task for user. Here we provide facility about Online News Paper. In index page user can select any options which is needed by him/her. By selecting options he/she can see the desired page. Then he/she can get the all oriented information finally. The design of user panel is shown in following flow chart….
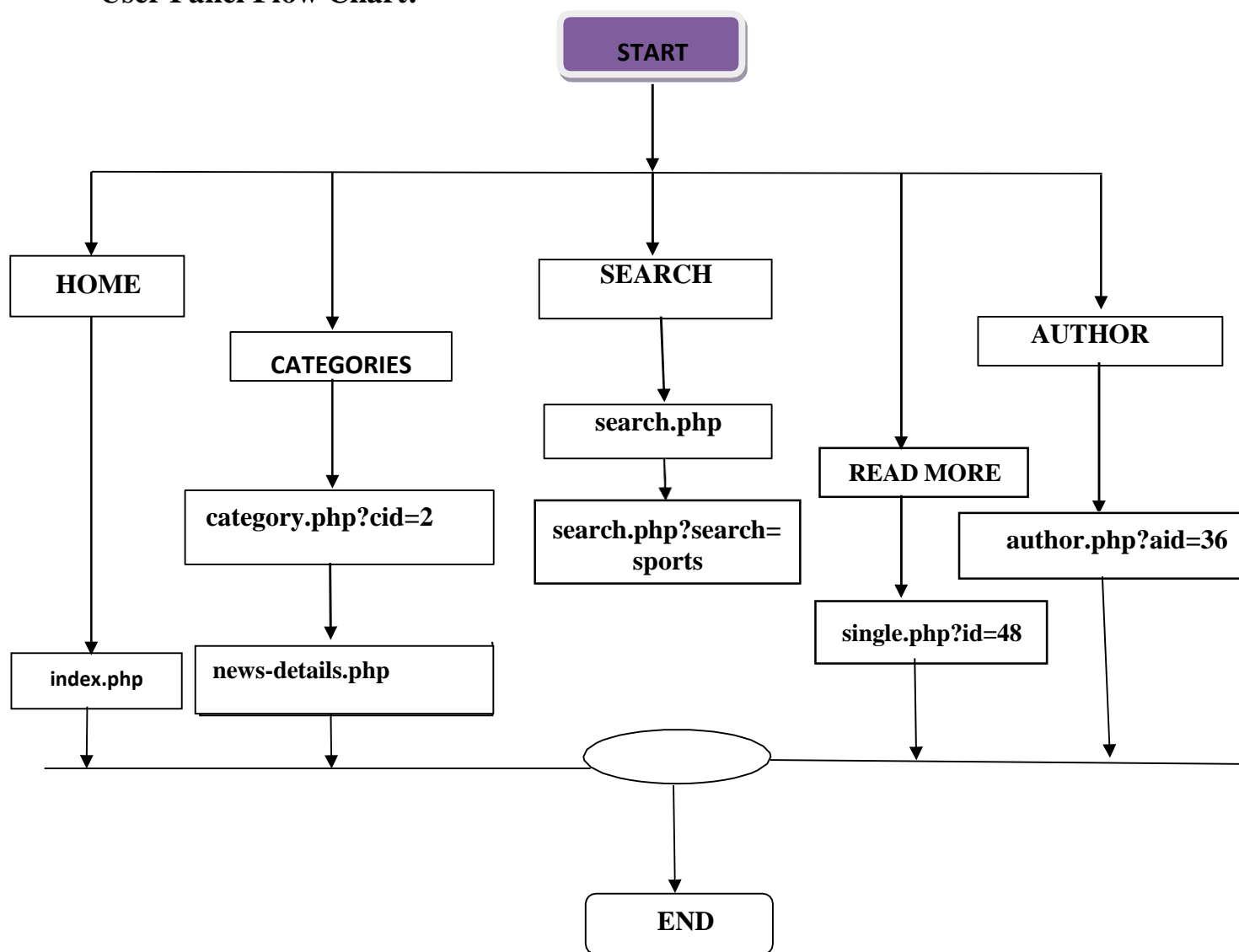
User Panel Flow Chart:

Fig. 4.1: The user panel flowchart part.

6.2 Admin Panel Design

We have design user login facility to manage and update all of the information. It is fully secured page. Without appropriate username and password it cannot be accessed by anyone. For admin login after giving username and password we need to click a login button , when we click login button it is not directly entered in home page , it stay in login page. Then it starts a session and set two variables called username and password. If the username and password are matched with database, it can enter in home page. It is not possible without click login button. In case if username or password are not matched with database than Invalid username or password massage is shown. We can describe the login facility in admin login by using below flow chart given below--

Admin Login Flow Chart:
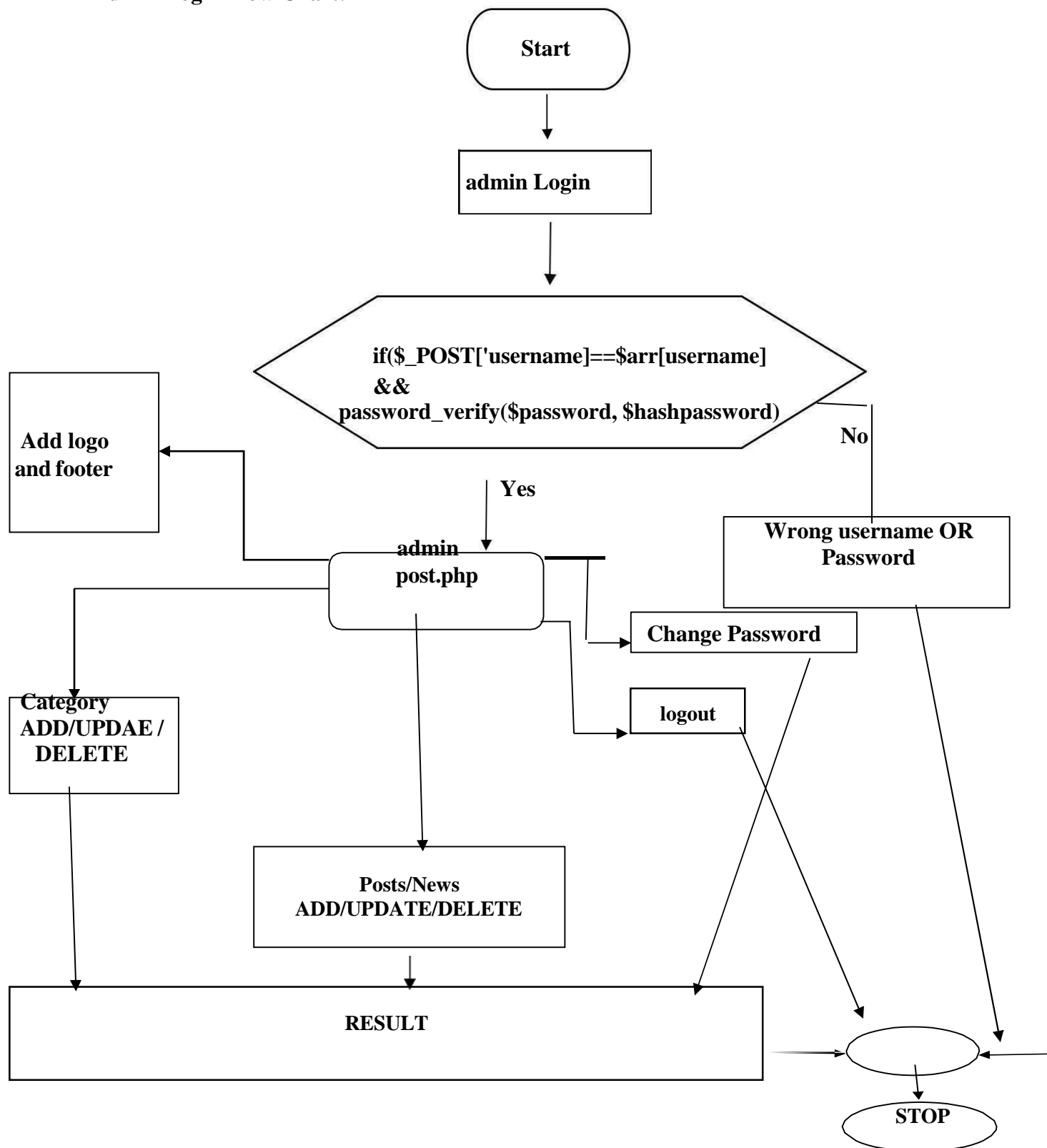
Fig. 4.2: Admin Login Flow Chart.

CHAPTER 7

Index.html

```php
<?php include
'header.php';
?>
                    <div id="main-content">
                        <div class="container">
                            <div class="row">
                                <div class="col-md-8">
                                    <!-- post-container -->
                                    <div class="post-container">
                                        <?php
                                            include "config.php";

                                            // calculate offset code
                                            $limit = 3;

                                             if(isset($_GET['page'])){
                                                 $page = $_GET['page'];
                                            }else{
                                                 $page = 1;
                                            }

                                            $offset = ($page - 1) * $limit;
                                            //select query of user table with offset and limit
                                            $sql = "SELECT post.post_id, post.title, post.description,
post.post_date,post.author,

                                            category.category_name,user.username, post.category, post.post_img
FROM post

                                            LEFT JOIN category ON post.category = category.category_id
                                            LEFT JOIN user ON post.author = user.user_id
                                            ORDER BY post.post_id DESC LIMIT {$offset},{$limit}";


                                             $result = mysqli_query($conn,$sql) or die("Query Failed.");
                                             if(mysqli_num_rows($result)>0){
                                                 while($row = mysqli_fetch_assoc($result)) {
                                        ?>

                                        <div class="post-content">
                                            <div class="row">
                                                <div class="col-md-4">
                                                    <a class="post-img" href="single.php?id=<?php echo
```

```
$row['post_id']; ?>"><img src="admin/upload/<?php echo $row['post_img']; ?>" alt=""/></a>
                            </div>
                            <div class="col-md-8">
                                <div class="inner-content clearfix">
                                    <h3><a href='single.php?id=<?php echo $row['post_id'];
?>'><?php echo $row['title']; ?></a></h3>
                                        <div class="post-information">
                                            <span>
                                                <i class="fa fa-tags" aria-hidden="true"></i>
                                                <a href='category.php?cid=<?php echo
$row['category']; ?>'><?php echo $row['category_name']; ?></a>
                                            </span>
                                            <span>
                                                <i class="fa fa-user" aria-hidden="true"></i>
                                                <a href='author.php?aid=<?php echo $row['author'];
?>'><?php echo $row['username']; ?></a>
                                            </span>
                                            <span>
                                                <i class="fa fa-calendar" aria-hidden="true"></i>
                                                <?php echo $row['post_date']; ?>
                                            </span>
                                        </div>
                                        <p class="description">
                                            <?php echo substr($row['description'],0,130)."..."; ?>
                                        </p>
                                        <a class='read-more pull-right' href='single.php?id=<?php
echo $row['post_id']; ?>'>read more</a>
                                    </div>
                                </div>
                            </div>
                        </div>

                        <?php
                            }
                        }
                        else{
                            echo "<h2>No Record Found.</h2>";
                        }

                        //show pagination
                        $sql1 = "SELECT * FROM post";
                        $result1 = mysqli_query($conn,$sql1) or die("Query Failed.");

                        if(mysqli_num_rows($result1) > 0){
```

```php
                                        $total_records = mysqli_num_rows($result1);

                                        $total_page = ceil($total_records / $limit);

                                        echo '<ul class="pagination admin-pagination">';
                                        if($page > 1){
                                            echo '<li><a href="index.php?page='.($page -
1).'">Prev</a></li>';

                                        }
                                        for($i = 1; $i <= $total_page; $i++){
                                            if($i == $page){
                                                $active = "active";
                                            }else{
                                                $active = "";
                                            }
                                            echo '<li class="'.$active.'"><a
href="index.php?page='.$i.'">'.$i.'</a></li>';

                                        }
                                        if($total_page > $page){
                                            echo '<li><a href="index.php?page='.($page
+1).'">Next</a></li>';

                                        }
                                        echo '</ul>';
                                    }
                                ?>


                                <!-- <ul class='pagination'>
                                    <li class="active"><a href="">1</a></li>
                                    <li><a href="">2</a></li>
                                    <li><a href="">3</a></li>
                                </ul> -->
                                <!-- /post-container -->
                            </div>
                        </div>
                        <?php include 'sidebar.php'; ?>
                    </div>
                </div>
            </div>
<?php include 'footer.php'; ?>
```

7.1 Files and Database

We have organized one database **news portal** for system design. It can be accessed directly or sequentially by registered. The database determines files, record, fields, and characters. It can be easily controlled and updated. This database and its table and component are described by using flow diagram that is given in the below……….

News portal Database has 4 tables
- ❖ category
- ❖ post
- ❖ user
- ❖ settings

➤ **category**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	category_id 🔑	int(11)			No	None		AUTO_INCREMENT
2	category_name	varchar(100)	latin1_swedish_ci		No	None		
3	post	int(11)			No	0		

➤ **post**

1	post_id 🔑🔑	int(11)			No	None		AUTO_INCREMENT
2	title	varchar(100)	latin1_swedish_ci		No	None		
3	description	text	latin1_swedish_ci		No	None		
4	category	varchar(100)	latin1_swedish_ci		No	None		
5	post_date	varchar(50)	latin1_swedish_ci		No	None		
6	author	int(11)			No	None		
7	post_img	varchar(100)	latin1_swedish_ci		No	None		

➢ **user**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	user_id 🔑	int(10)		UNSIGNED	No	None		AUTO_INCREMENT
2	first_name	varchar(30)	latin1_swedish_ci		No	None		
3	last_name	varchar(30)	latin1_swedish_ci		No	None		
4	username	varchar(30)	latin1_swedish_ci		Yes	NULL		
5	password	varchar(40)	latin1_swedish_ci		Yes	NULL		
6	role	int(11)			No	None		

➢ **settings**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	websitename	varchar(60)	utf8mb4_general_ci		No	None		
2	logo	varchar(50)	utf8mb4_general_ci		No	None		
3	footerdesc	varchar(255)	utf8mb4_general_ci		No	None		

CHAPTEER 8

Screenshots

After going to http://localhost/newsportal/index.php a user can see the view.

Home page Of User specification
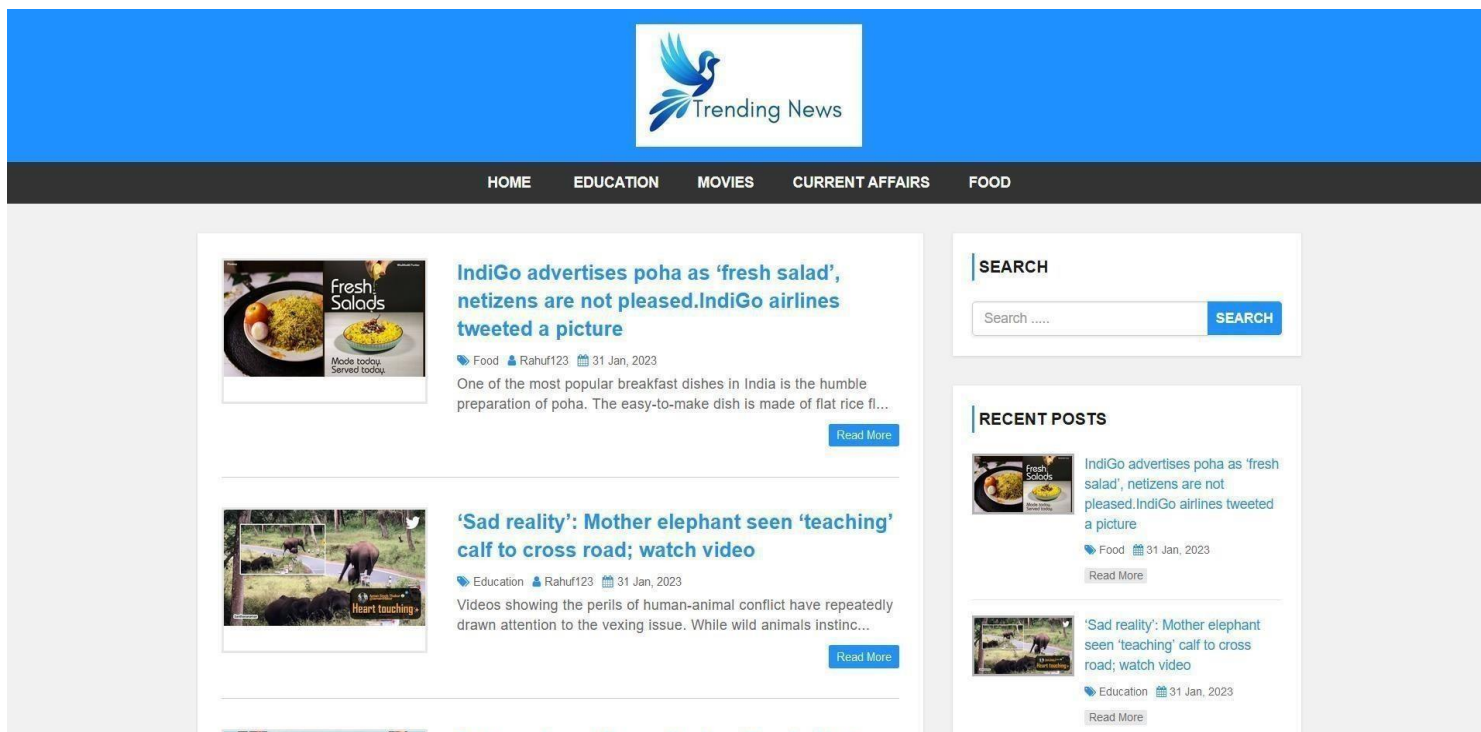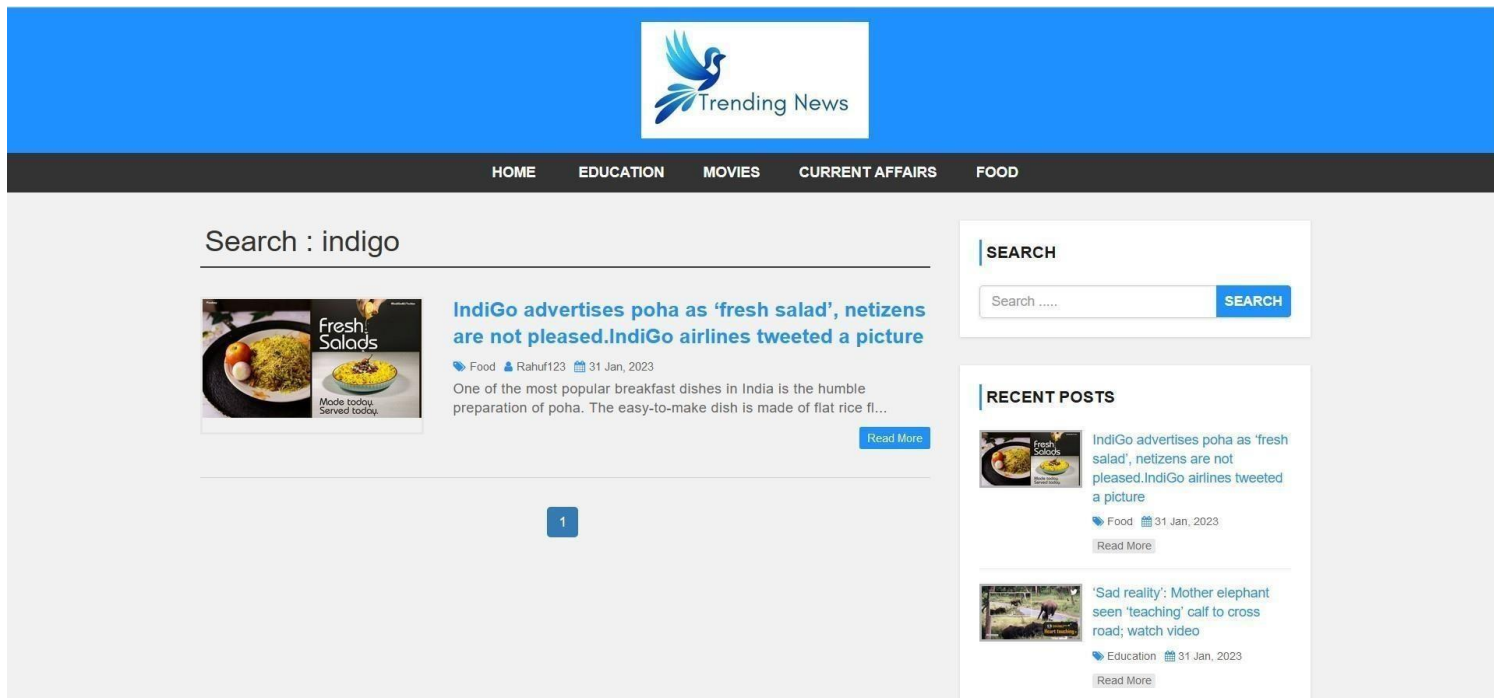
By clicking on the particular news user will get the news details pages here…

Online News Portal News Details Pages
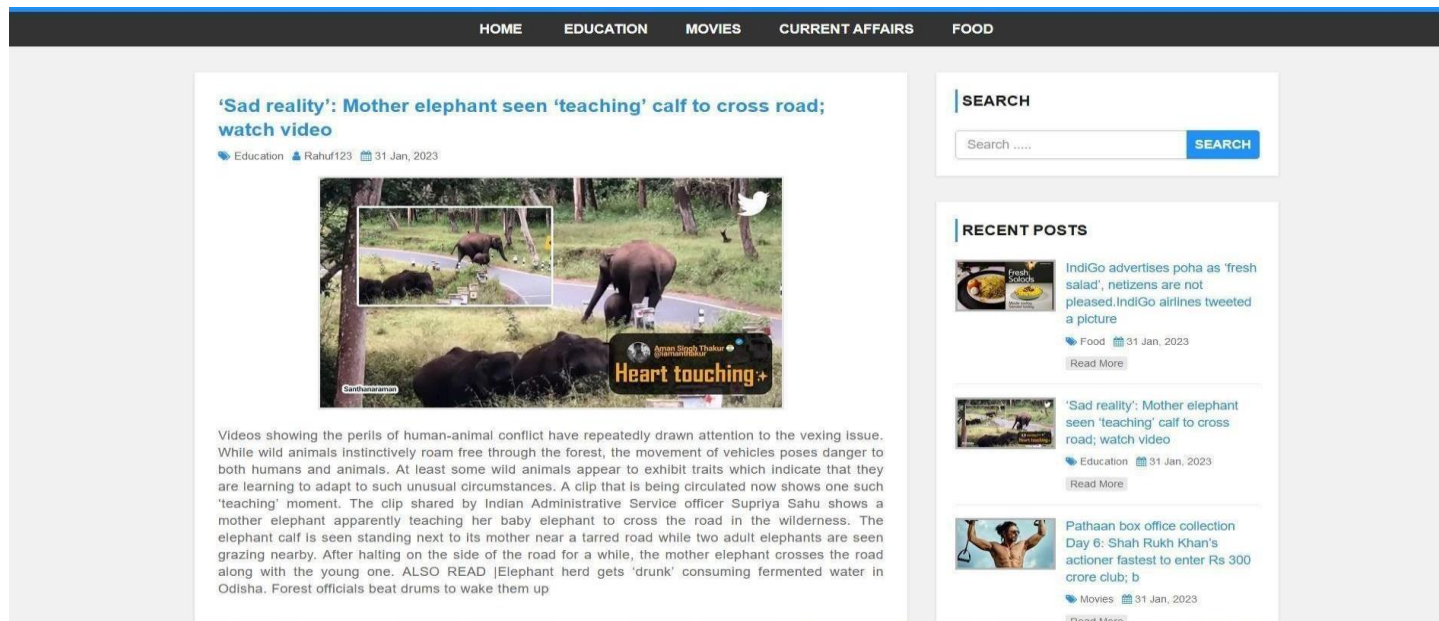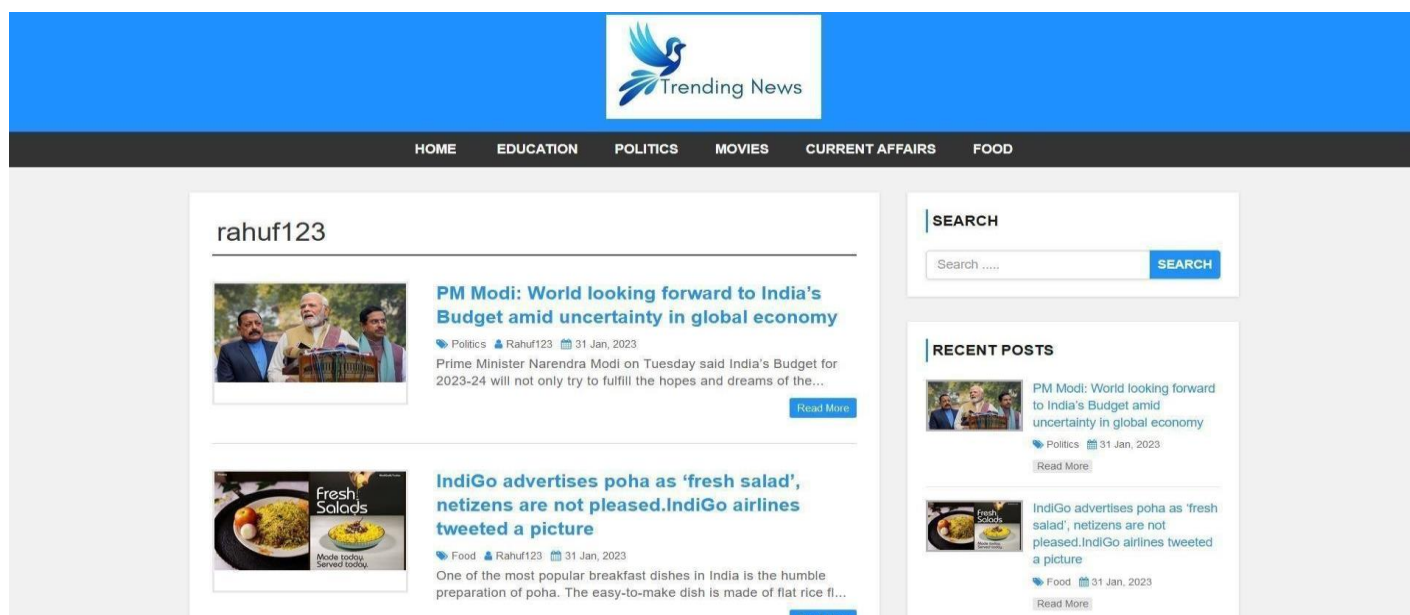
By searching particular news user will get the searched news details pages here…

User can view the news author wise by searching author name ….

8.1 Admin Specification

This is the input panel of the Online News Paper. We have developed this panel so that we can dynamically control the Online News Paper. It is fully secured system. Without being admin or knowing user name and password no one can access it. It is fully protected from unauthorized access.

After going to http://localhost/newsportal/admin.php an admin can see the view.

Admin Panel

After giving the valid username and password then admin have to click login button. Then admin show the below view. Admin module feature

- ✓ Admin login with secure username and password
- ✓ Admin Dashboard
- ✓ Admin can add users both normal user and admin user
- ✓ Admin can add categories / update / delete
- ✓ Admin can add News / update news
- ✓ Admin can add logo of the website
- ✓ Admin can change own password
- ✓ Logout

Admin Dashboard

Trending News

HELLO RAHUF123, LOGOUT

POST   CATEGORY   USERS   SETTINGS

All Categories

ADD CATEGORY

S.NO.	CATEGORY NAME	NO. OF POSTS	EDIT	DELETE
44	Food	1	✎	🗑
43	Movies	1	✎	🗑
42	space scientist	0	✎	🗑

1 2 3 Next

CHAPTER 9

Advantages of the Project

1)User friendly design.

2)Easy to operate.

3)Have a good user interface.4)Be

easy to modify.

5) Be expandable.

6) Handle the errors and exceptions satisfactorily.

7) Easy to store the details.

CHAPTER 10

Conclusion

Simplicity is never simple. As we have seen in this project, the process of creating a user- friendly and straight forward platform that facilitates the administrator's job is one filled with complexity. From understanding user requirements to system design and finally system prototype and finalization, every step requires in-depth understanding and commitment to wards achieving the objectives of the project. Although the news portal database management module is not fully integrated to the system and used on real time, the system prototype demonstrates easy navigation and data are stored in a systematic way. Overall, efficiency has improved and work processes simplified. Although all the objectives have been met, the systems till has room for improvement. The system is robust and flexible enough for future upgrade using advanced technology and devices.

The package was designed in such a way that future modifications can be done easily. The following conclusions can be deduced from the development of the project.

★   Automation of the entire system improves the efficiency

★   It provides a friendly graphical user interface which proves to be better when compared to the existing system.

★   It gives appropriate access to the authorized users depending on their permissions.

★   It effectively overcomes the delay in communications.

★   Updating of information becomes so easier.

★   System security, data security and reliability are the striking features.

★   The System has adequate scope for modification in future if it is necessary.

Bibliography

It has been a matter of immense pleasure, honor and challenge to have this opportunity to take up this project and complete it successfully.

We have obtained information from various resources to design and implement our project. We have acquired most of the knowledge from the Internet.

The following are some of the resources:

★ www.w3schools.com

★ www.tutorialspoint.com

★ Google and Youtube Tutorials