

Online news site

A PROJECT REPORT

ON

Online news site

**SUBMITTED TO THE SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE
IN THE PARTIAL FULFILLMENT FOR THE AWARD OF THE DEGREE**

OF

BACHELOR OF BUSINESS ADMINISTRATION

IN

COMPUTER APPLICATION

BY

Pawar Swapnali Shahsikant Examination Seat No: 5962

Kudale Saloni Nitin Examination Seat No: 5947

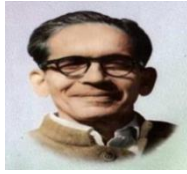
UNDER THE GUIDANCE OF

Prof. Watpade A.S.



Year 2025-26

BBA (COMPUTER APPLICATION) 2025-26



Rayat Shikshan Sanstha's

**S. M. JOSHI COLLEGE, PUNE
HADAPSAR, PUNE 411028**

DEPARTMENT OF COMPUTER SCIENCE AND APPLICATION

2025-26

CERTIFICATE

This is to certify that the project report entitled

Online news site

Submitted by

Pawar Swapnali Shahsikant

Examination Seat No: 5962

Kudale Saloni Nitin

Examination Seat No: 5947

is a bonafide work carried out by them under the supervision of **Prof. Watpade A.S.** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University for the award of the Degree of **Bachelor of Business Administration in (Computer Application)**.

This project report has not been earlier submitted to any other Institute or University for the award of any degree or diploma.

Prof. Watpade A.S.

Hon. Sangeeta Yadav

Project Guide

HOD

Internal Examiner

External Examiner

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Pawar Swapnali Shahsikant 5962

Kudale Saloni Nitin 5947

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CHAPTER 1: ABSTRACT

Abstract

A concise news abstract should quickly inform readers about the core event and its significance. Focus on clarity and brevity, highlighting the most important aspects of the news item to engage the reader and provide context.

A concise and attention-grabbing title that accurately reflects the news story's essence. Lead Paragraph (often called the "lead") The opening paragraph containing the most important information, typically addressing the 5 W's (Who, What, When, Where, Why) and How. Key Facts and Figures are Crucial details that support the main point of the story.

CHAPTER 2: INTRODUCTION

2.1 Motivation

Spread knowledge and awareness about important topics. Gain experience and build a portfolio in journalism or media. Informing the Public Provide accurate and unbiased information to the public. Promoting Critical Thinking: Encourage critical thinking and media literacy.

2.2 Problem Statement

The proliferation of misinformation and biased reporting in traditional news sources has led to a decline in trust and credibility. Existing online news platforms often prioritize sensationalism over fact-based reporting, further exacerbating the issue.

2.3 Purpose/objective and goals:

Purpose:

Provide accurate, timely, and relevant news to the audience, keeping them informed about local, national, and international events. Engage Faster a community of readers who can engage with the content, share their opinions, and interact with each other.

Objectives:

Provide accurate, unbiased, and well-researched news articles, latest news and multimedia content. Create a user-friendly interface and interactive features that encourage users to explore, share, and discuss news. Continuously update news content to reflect the latest developments and breaking new.

Goals:

Attract a large and diverse audience through search engine optimization (SEO), social media promotion, and other marketing strategies Encourage users to interact with the site through comments, shares, and other engagement metrics.

2.4 Literature survey:

Online News Consumption:

Digital News Report: The Reuters Institute for the Study of Journalism's annual report provides insights into online news consumption habits and trends.

News Engagement: Studies have shown that online news engagement is influenced by factors such as content quality, user experience, and social sharing.

Online News Platforms:

Content Management Systems (CMS): Research on CMS platforms such as Word Press, Drupal, and Joomla highlights their importance in managing and publishing online news content.

Social Media Integration: Studies have explored the role of social media in online news dissemination and engagement.

2.5 Project scope and limitation:

Project scope:

- **Content Management:** The ability to easily add, update, categorize, and manage news articles.
- **User Experience:** A dynamic and informative website that is easy to navigate and provides up-to-date news anytime, anywhere.
- **Categorization:** Organizing news by category (e.g., national, international, sports, entertainment).
- **User Interaction:** Features for users to interact with the news content, although specific features depend on project goals.

Project Limitation

Other challenges include the spread of misinformation, the constant need for constant updates to compete with the 24/7 news cycle, annoying online ads, the spread of spam in comment sections, and legal restrictions related to libel, privacy, and copyright.

CHAPTER 3: SYSTEM ANALYSIS

3.1 Existing Systems:

Traditional News Websites: Many traditional news organizations have online presence, with websites that provide news articles, videos, and other content.

Social Media Platforms: Social media platforms like Facebook, Twitter, and LinkedIn have become important channels for news dissemination and consumption.

1. Lokmat
2. Google news
3. Inshort

3.2 Scope and limitations of existing systems:

Scope of Existing Systems

Many existing systems offer personalization features, allowing users to customize their news feeds based on interests and preferences. Existing systems often provide real-time updates, ensuring users stay informed about breaking news and current events. Many existing systems incorporate multimedia content, such as videos, images, and podcasts, to enhance the user experience.

Limitations of Existing Systems

Technical limitations such as server capacity, bandwidth, and compatibility issues may impact the site's performance and functionality. Existing systems can perpetuate bias and misinformation, particularly if sources are not verified or fact-checked. Some existing systems may prioritize brevity and sensationalism over in-depth reporting and analysis.

3.3 Project perspective, features:

Perspective

The project prioritizes a user-centered approach, focusing on delivering a seamless and engaging experience for readers. The project emphasizes high-quality, relevant, and timely content, catering to diverse interests and

needs. The project incorporates innovative features and technologies to enhance the user experience and stay ahead of the competition

Features

A personalized news feed that uses algorithms to curate content based on user interests and preferences. Real-time updates on breaking news and current events, ensuring users stay informed. Incorporation of multimedia content, such as images to enhance the user experience. Interactive features, such as comments, latest news and popular news to encourage user engagement.

3.4 Stakeholders:

- **Readers (end-users):** The target audience who consume the news content. Their needs, feedback, and engagement are critical to the platform's success. The project must deliver a positive user experience to attract and retain them.
- **Advertisers:** They provide a significant source of revenue by purchasing ad space on the site. Their needs for specific ad placements, audience targeting, and performance metrics must be addressed.
- **Sources:** The people and organizations that journalists interview or cite to build news stories. Maintaining a good relationship with them is vital for creating high-quality content.

3.5 Requirements analysis:

Functional Requirements:

- **User Registration and Login:** Users should be able to register and log in to access personalized features.
- **Content Management:** The system should allow administrators to create, edit, delete, update and publish news articles.
- **News Feed:** The system should display a news feed that showcases latest news articles.

Performance Requirements:

- Page Load Time: Pages should load within 3 seconds.
- Concurrent Users: The system should handle at least 1000 concurrent users.
- Response Time: The system should respond to user requests within few second.
- Uptime: The system should have at least 99.9% uptime.

Security Requirements:

- Authentication: The system should authenticate users securely using passwords or other authentication methods.
- Authorization: The system should authorize users to access specific features based on their roles.
- Data Encryption: The system should encrypt sensitive data, such as user passwords and other information.

CHAPTER 4: SYSTEM DESIGN

4.1 Design constraint:

User table:

Field	Type	Null	Key	Default	Extra
Userid	int(11)	NO	PRI	NULL	auto_increment
fullName	varchar(100)	NO		NULL	
emailId	varchar(150)	NO	UNI	NULL	
contactNo	varchar(15)	YES	UNI	NULL	
Address	varchar(255)	YES		NULL	
Password	varchar(255)	NO		NULL	(hashed value)
regDate	datetime	NO		current_timestamp	
isActive	tinyint(1)	NO		1	check (0 or 1)

Post table:

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
PostTitle	varchar(200)	NO		NULL	
Categoryid	int(11)	NO	MUL	NULL	foreign key → Categories(id)
SubCategoryid	int(11)	YES	MUL	NULL	foreign key
PostDetails	text	NO		NULL	
PostingDate	datetime	NO		current_timestamp	
UpdationDate	datetime	YES		NULL	
Is_Active	tinyint(1)	NO		1	check (0 or 1)
PostUrl	varchar(255)	YES	UNI	NULL	
PostImage	varchar(255)	YES		NULL	

Categories table:

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
CategoryName	varchar(100)	NO	UNI	NULL	
Description	varchar(255)	YES		NULL	
PostingDate	datetime	NO		current_timestamp	
UpdationDate	datetime	YES		NULL	
Is_Active	tinyint(1)	NO		1	check (0 or 1)

Subcategories table:

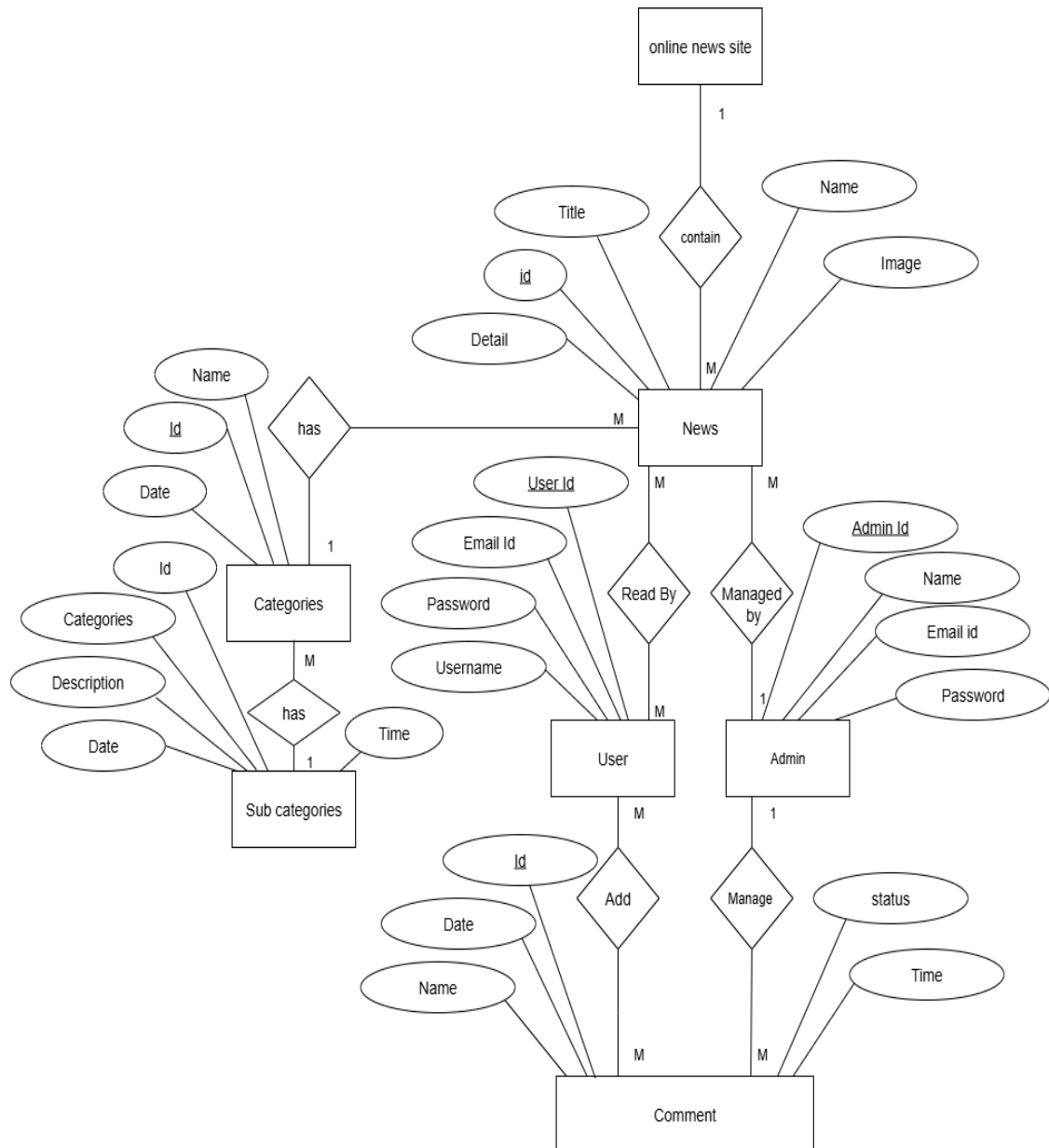
Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
Categoryid	int(11)	NO	MUL	NULL	foreign key → Categories(id)
SubCategoryName	varchar(100)	NO	UNI	NULL	
Description	varchar(255)	YES		NULL	
PostingDate	datetime	NO		current_timestamp	
UpdationDate	datetime	YES		NULL	
Is_Active	tinyint(1)	NO		1	check (0 or 1)

Comment table:

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
postId	int(11)	NO	MUL	NULL	foreign key → Post(id)
name	varchar(100)	NO		NULL	
email	varchar(150)	NO		NULL	
comment	text	NO		NULL	
postingDate	datetime	NO		current_timestamp	
status	tinyint(1)	NO		1	check (0 or 1)

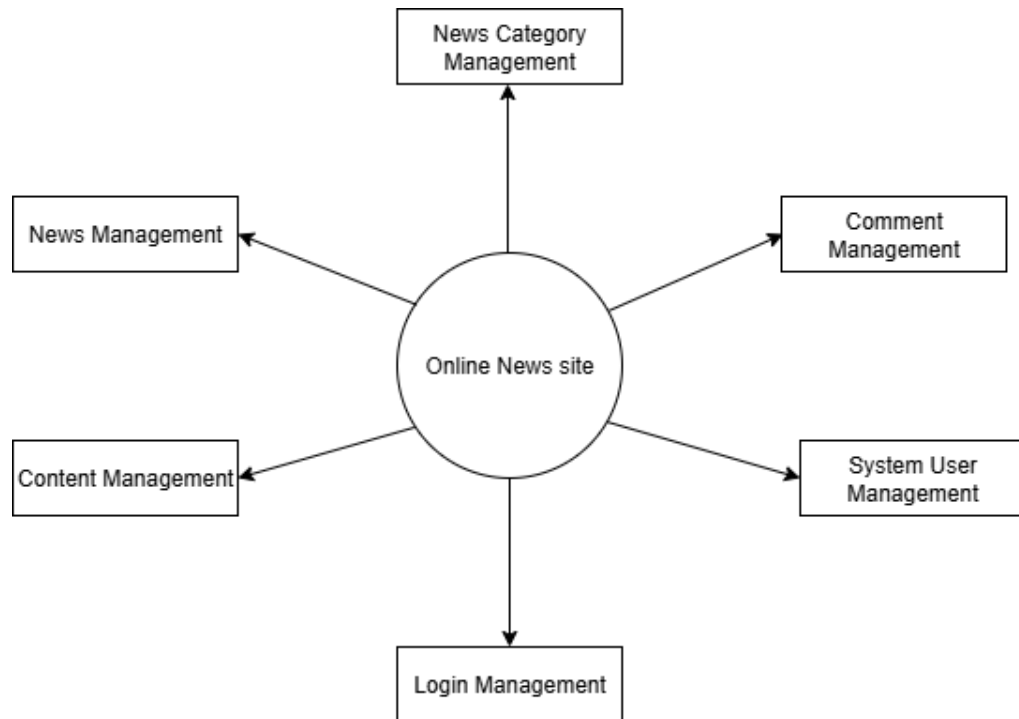
4.2 System model:

4.2.1 ER diagram:

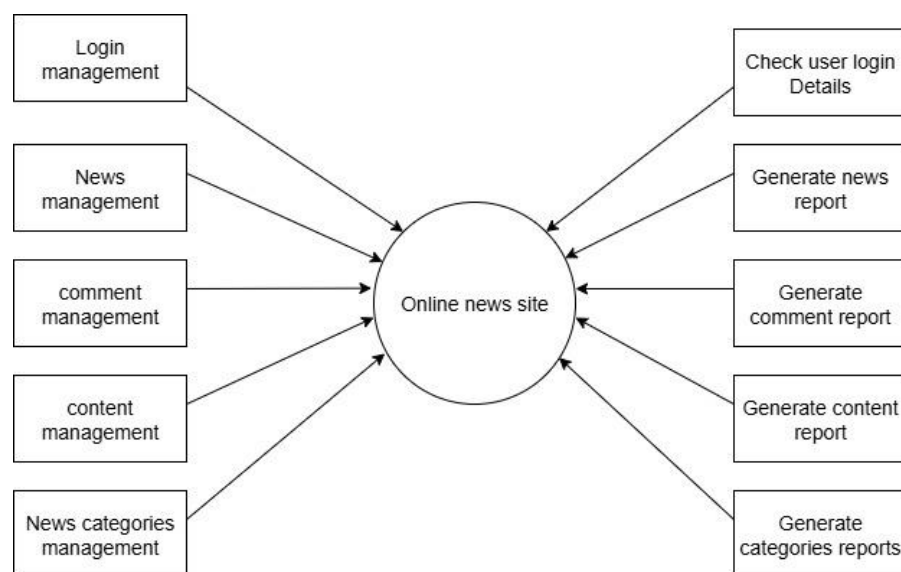


Admin DFD:

4.2.2 Zero level DFD:

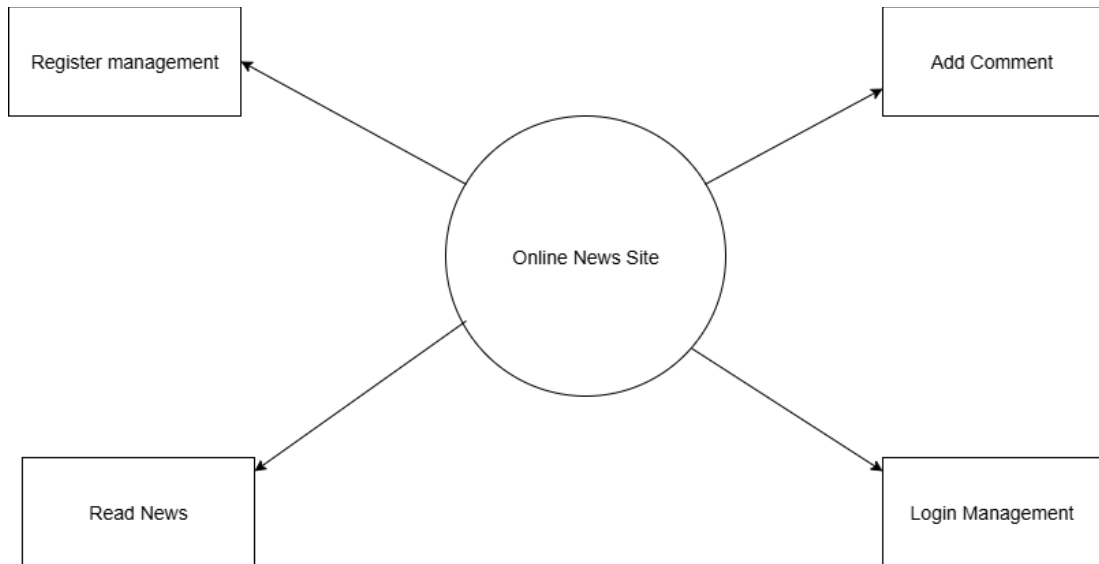


4.2.3 First level DFD:

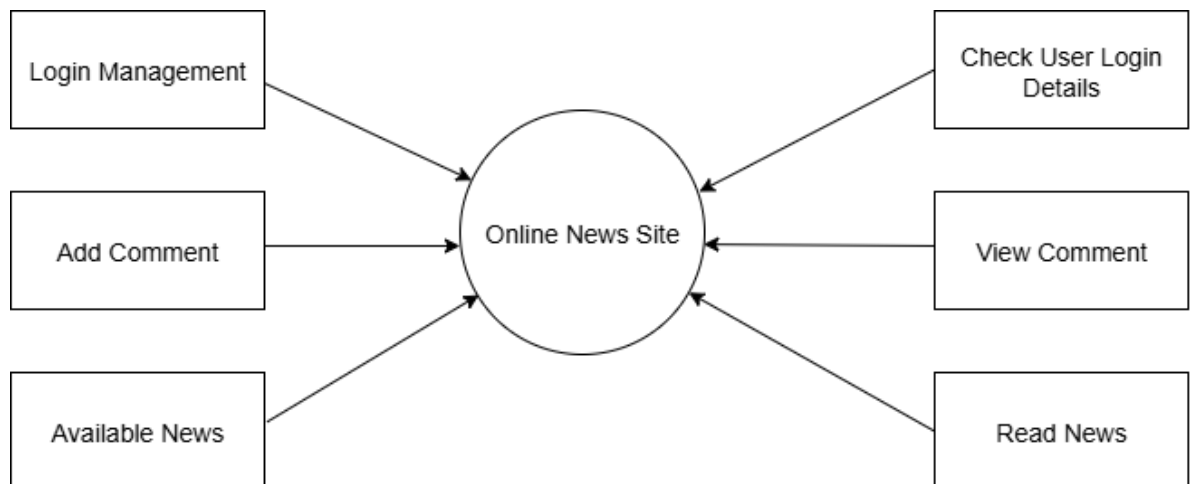


User DFD:

4.2.4 Zero level DFD:

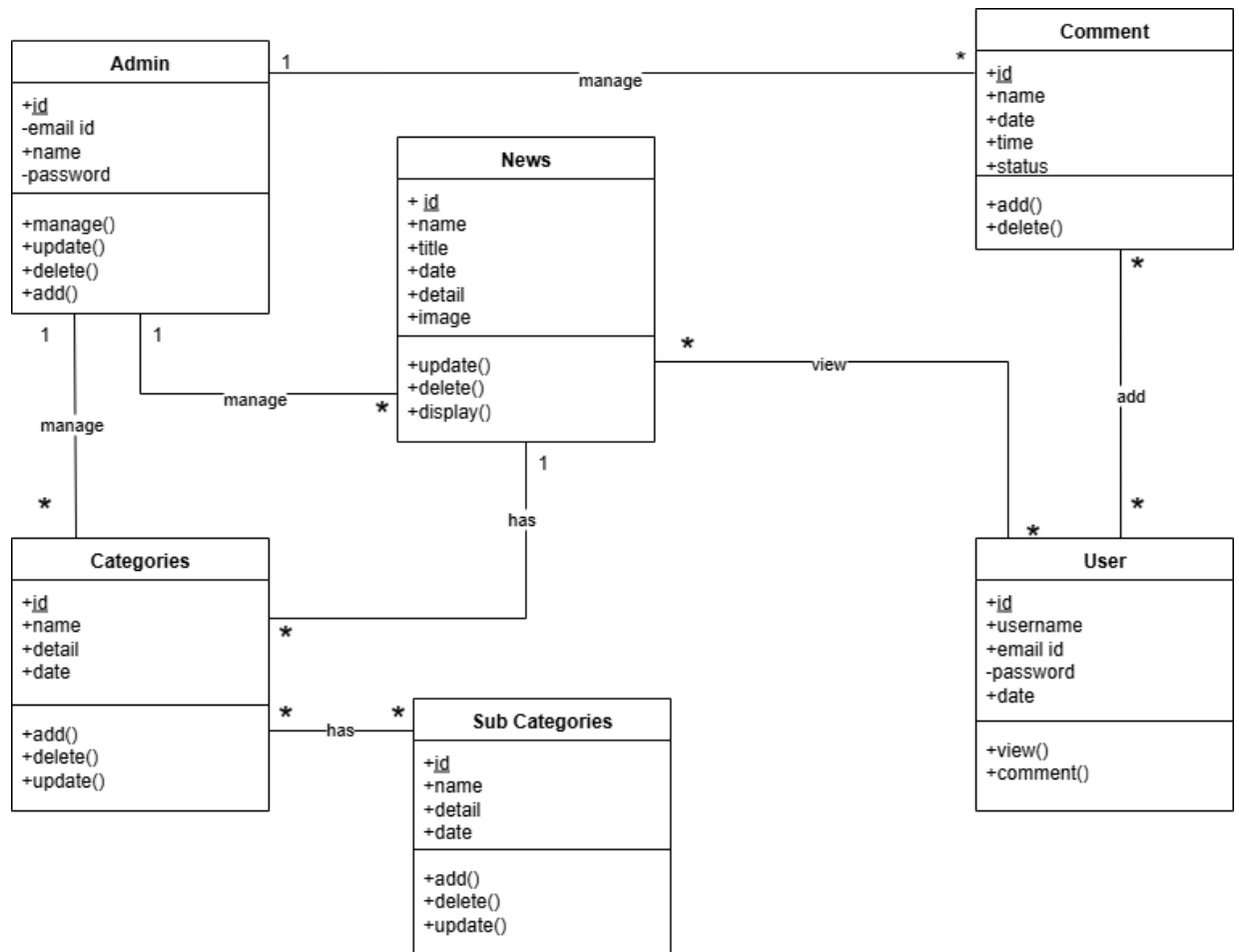


4.2.5 First level DFD:

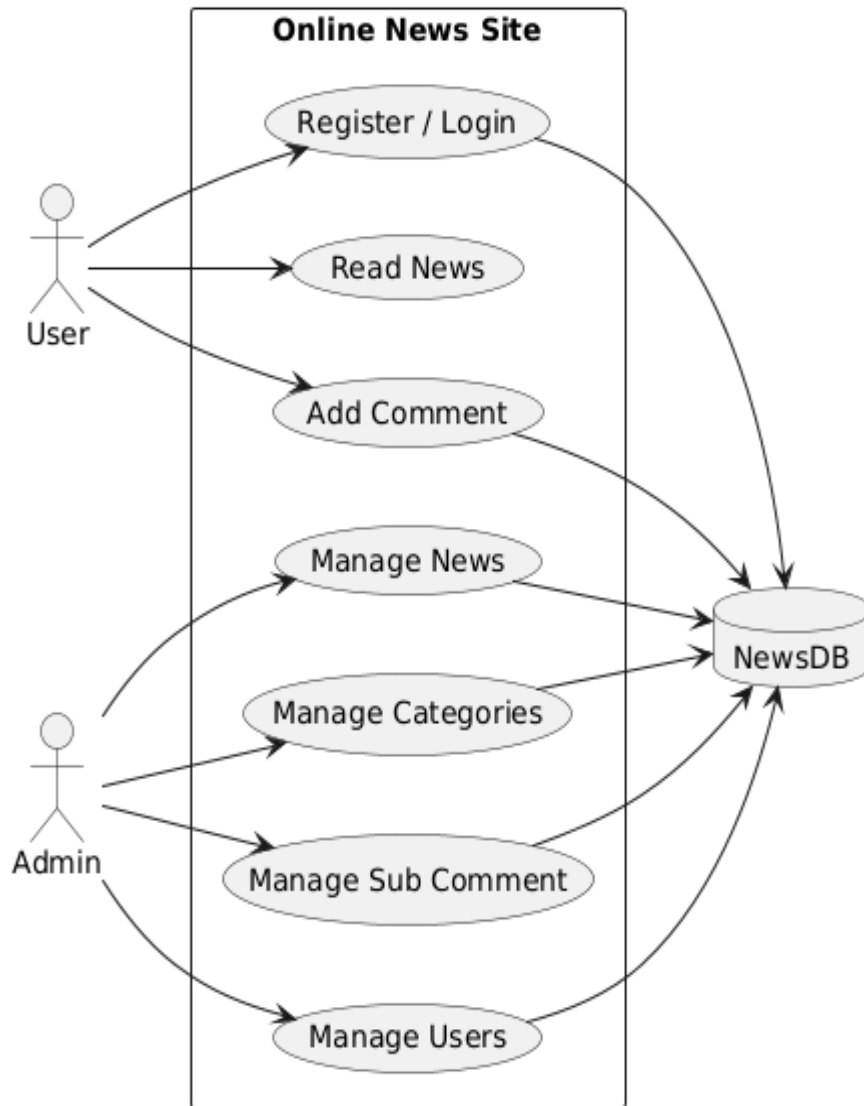


4.3 Data model:

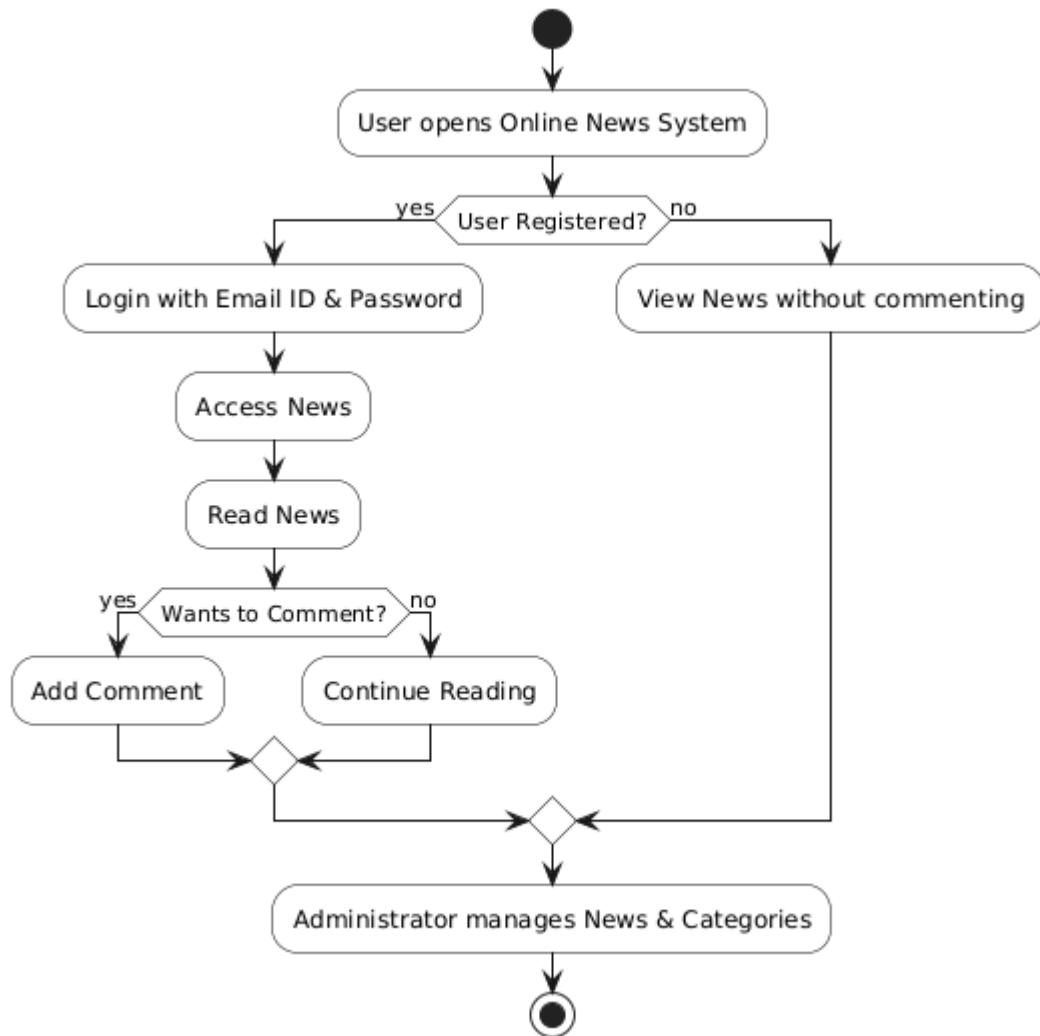
4.3.1 Class diagram:



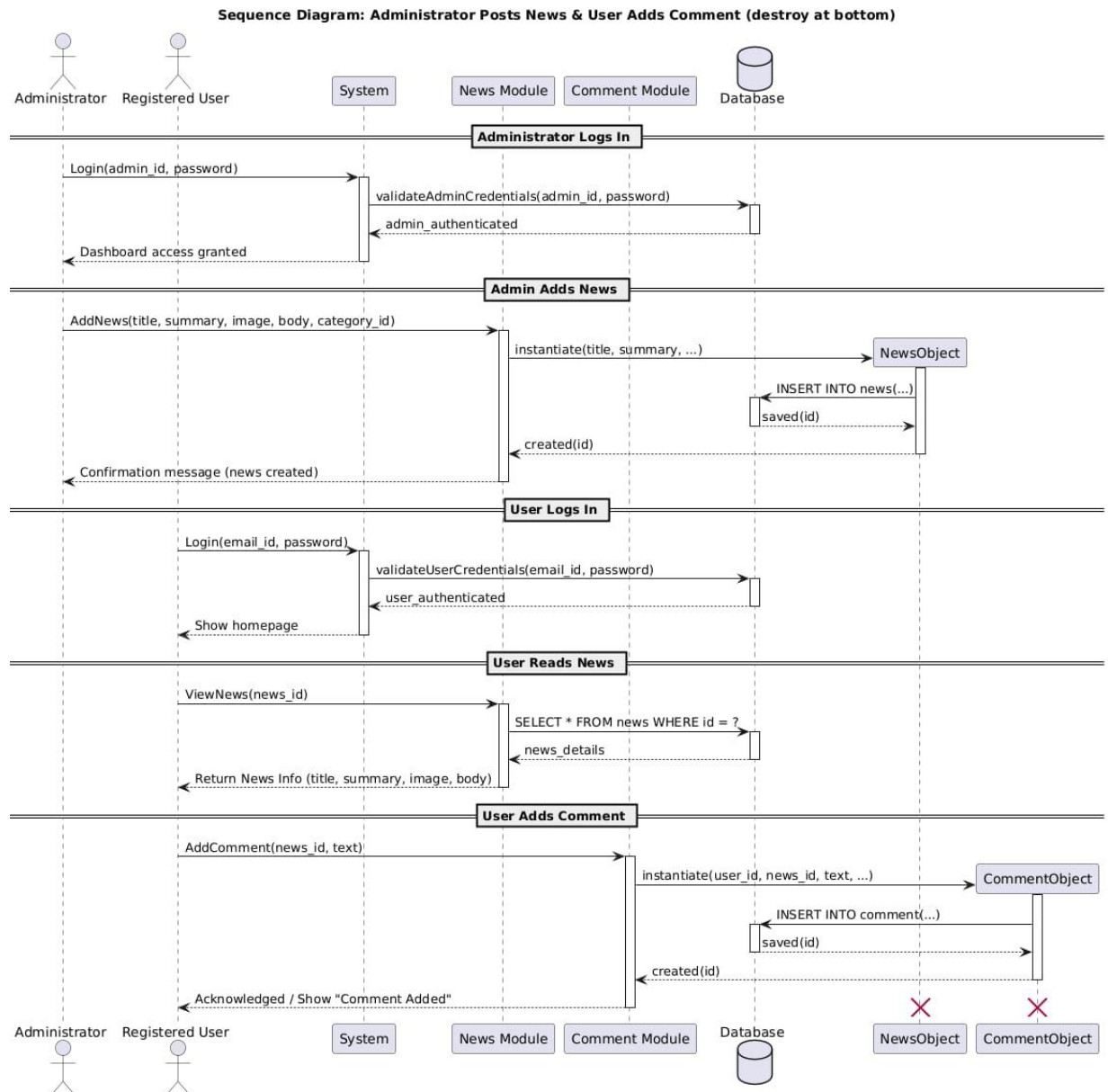
4.3.2 Use case diagram:



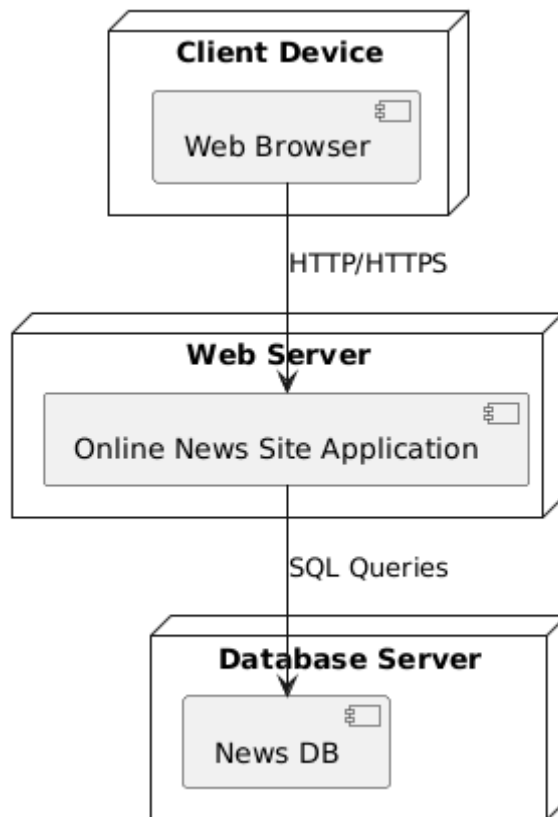
4.3.3 Activity diagram:



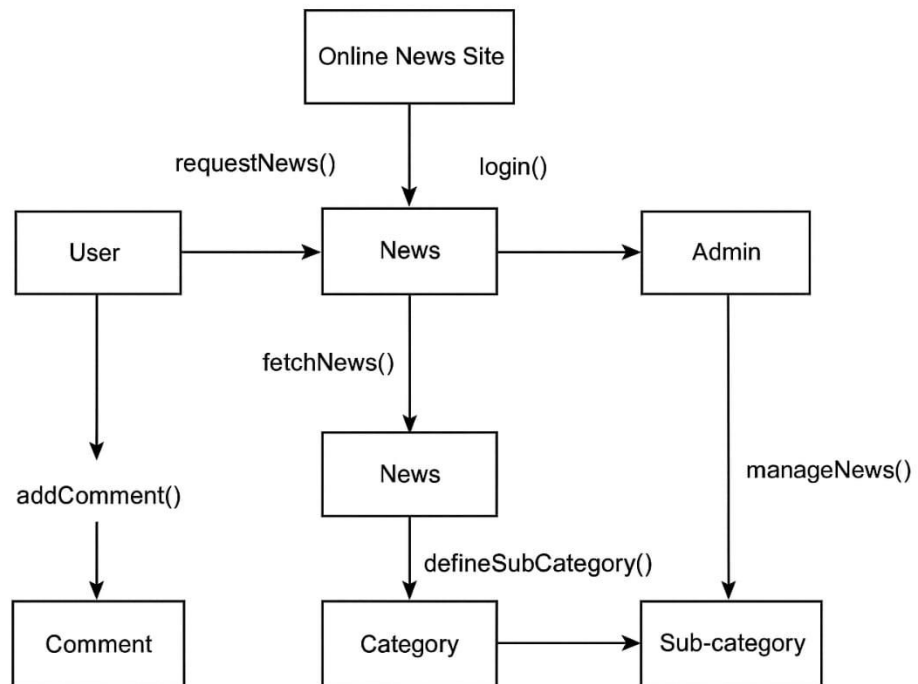
4.3.4 Sequence diagram:



4.3.5 Deployment diagram:

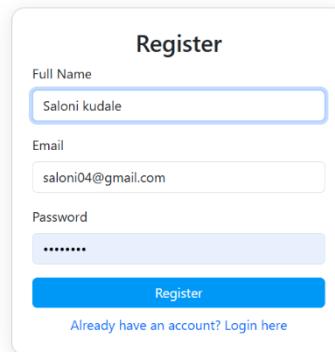


4.3.6 Collaboration diagram:



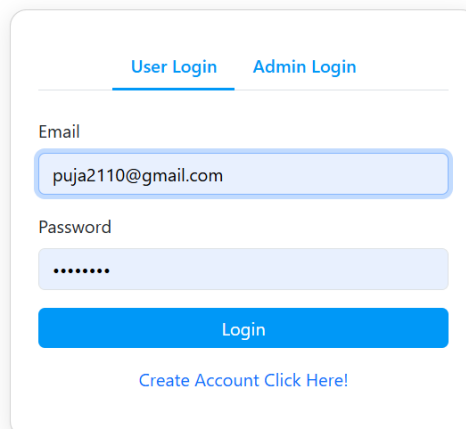
4.4 User interface:

4.4.1 Registration:



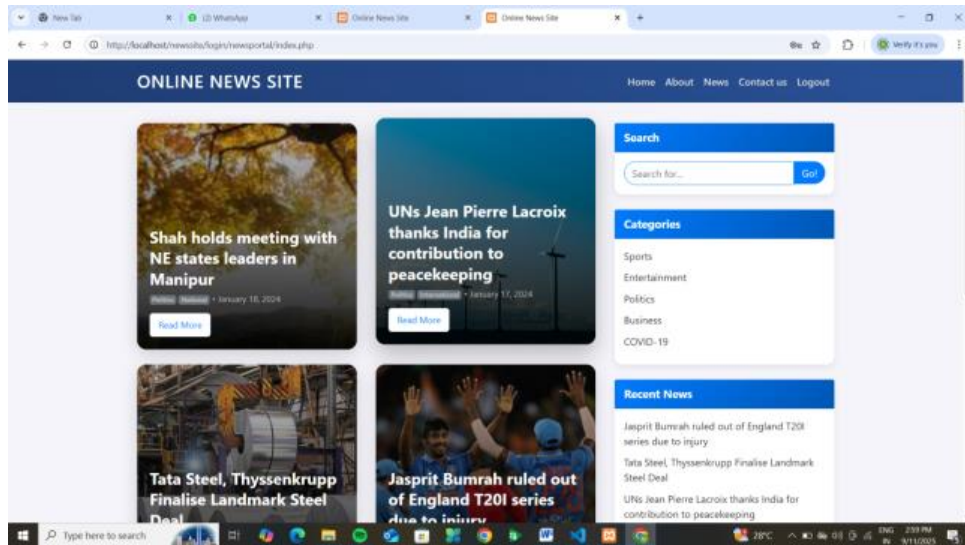
The registration form is titled "Register". It contains three input fields: "Full Name" with the value "Saloni kudale", "Email" with the value "saloni04@gmail.com", and "Password" with masked characters "*****". Below the fields is a blue "Register" button and a link that says "Already have an account? Login here".

4.4.2 Login:



The login form has two tabs: "User Login" (selected) and "Admin Login". It contains two input fields: "Email" with the value "puja2110@gmail.com" and "Password" with masked characters "*****". Below the fields is a blue "Login" button and a link that says "Create Account Click Here!".

4.4.3: Home page:



CHAPTER 5: IMPLEMENTATION DETAILS

5.1 Software specifications:

- Operating System: Windows 10/11, Linux, or macOS
- Frontend: HTML, CSS, JavaScript (optional: Bootstrap)
- Backend: PHP
- Database: MySQL
- Web Server: xampp(Apache +MySQL)
- Code Editor: Visual Studio Code, Sublime Text, or similar
- Browser: Google Chrome, Firefox, or any modern web browser

5.2 Hardware specifications:

- Edition : Windows 10 Pro
- Version: 22H2
- Storage: At least 250 GB hard disk space
- Display: 13-inch or larger screen
- Ram: 8.00 GB (7.84 GB usable)
- Input Devices: Keyboard and Mouse

CHAPTER 6: OUTPUT AND REPORT TESTING

6.1 Report testing:

6.1.1 Black Box Testing (Data Validation)

Test Case ID	Test Description	Preconditions	Test Steps	Expected Results	Actual Results	Status	Remarks
TC-02	Verify registration with invalid email	Registration page is accessible	1. Go to registration page2. Enter username and invalid email (e.g., userexample.com)3. Enter valid password4. Click register	Error message: "Invalid email format" should appear	Error message displayed as expected (see screenshot)	Pass	Validation working correctly
TC-03	Verify registration with short password	Registration page is accessible	1. Go to registration page2. Enter valid email3. Enter password less than 6 characters (e.g., pw)4. Click register	Error message: "Password must be at least 6 characters" should appear	Error message displayed as expected (see screenshot)	Pass	Validation working correctly
TC-04	Verify login with valid credentials	User account exists with valid email and password	1. Go to login page2. Enter valid email and correct password3. Click login	User dashboard should load successfully	User logged in and dashboard displayed (see screenshot)	Pass	Login successful
TC-05	Verify login with wrong password	User account exists	1. Go to login page2. Enter valid email and incorrect password3. Click login	Error message: "Incorrect email or password" should appear	Error message displayed as expected (see screenshot)	Pass	Validation working correctly

TC-01:

Register

Full Name
saloni

Email
saloni1gmail.com

❗ Please include an '@' in the email address. 'saloni1gmail.com' is missing an '@'.

.....

[Register](#)

[Already have an account? Login here](#)

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TC-02:

localhost says

Password must be at least 6 characters long!

OK

Register

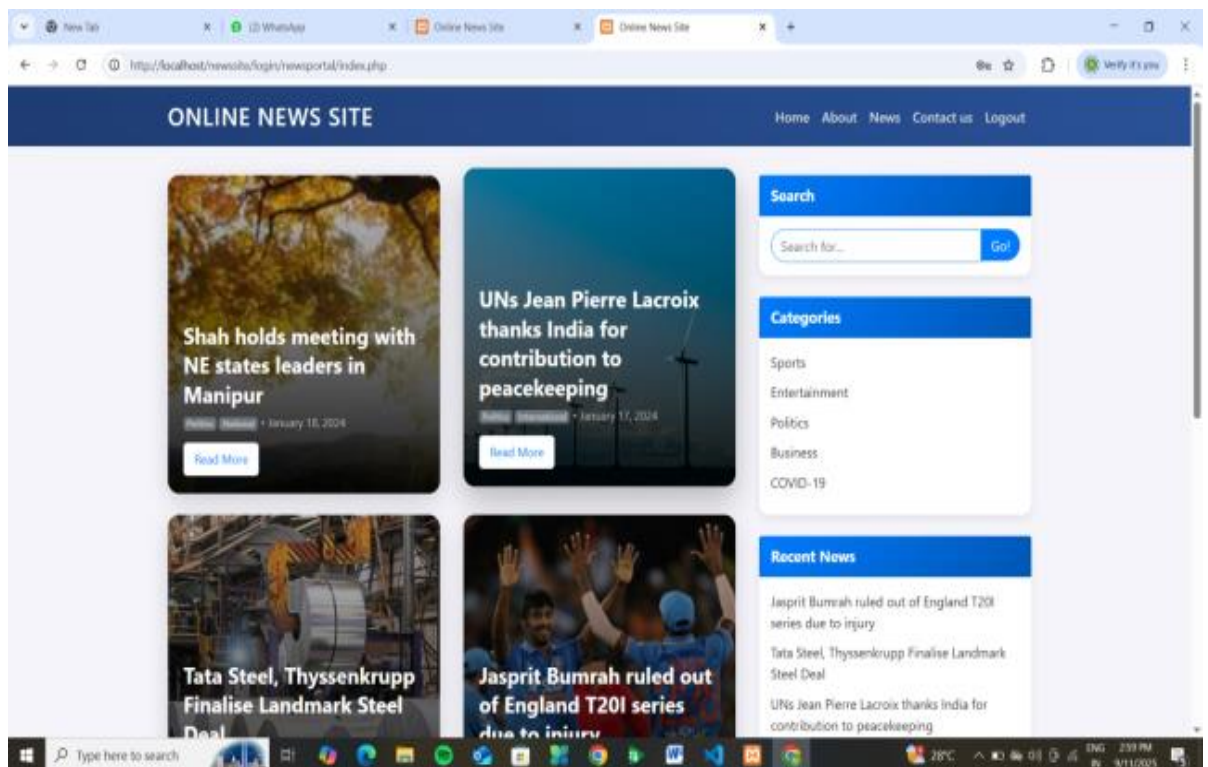
Full Name

Email

Password

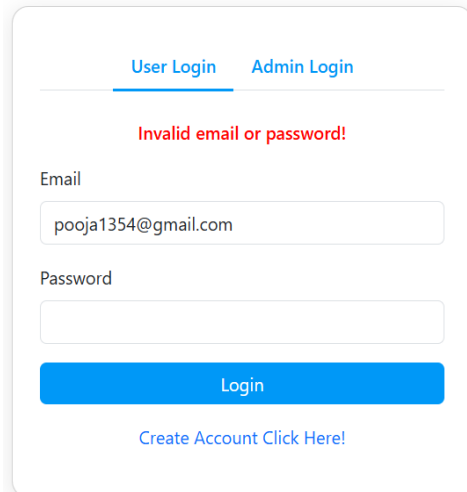
[Already have an account? Login here](#)

TC-03:



Online news site

TC-04:



The image shows a 'User Login' form on a white background with a light blue border. At the top, there are two tabs: 'User Login' (active, underlined) and 'Admin Login'. Below the tabs, a red error message 'Invalid email or password!' is displayed. The form contains two input fields: 'Email' with the value 'pooja1354@gmail.com' and 'Password' which is empty. A blue 'Login' button is positioned below the password field. At the bottom, there is a blue link that says 'Create Account Click Here!'.

TC-05:



The image shows a 'Leave a Comment' form. It has a blue header bar with the text 'Leave a Comment:'. Below the header, there are three input fields: a text field with 'saloni', an email field with 'saloni2@gmail.com', and a large text area for the comment. A blue 'Submit' button is located at the bottom left. A validation error message box is shown at the bottom right, containing an orange exclamation mark icon and the text 'Please fill out this field.'.

6.1.2 White Box Testing (Functional Validation)

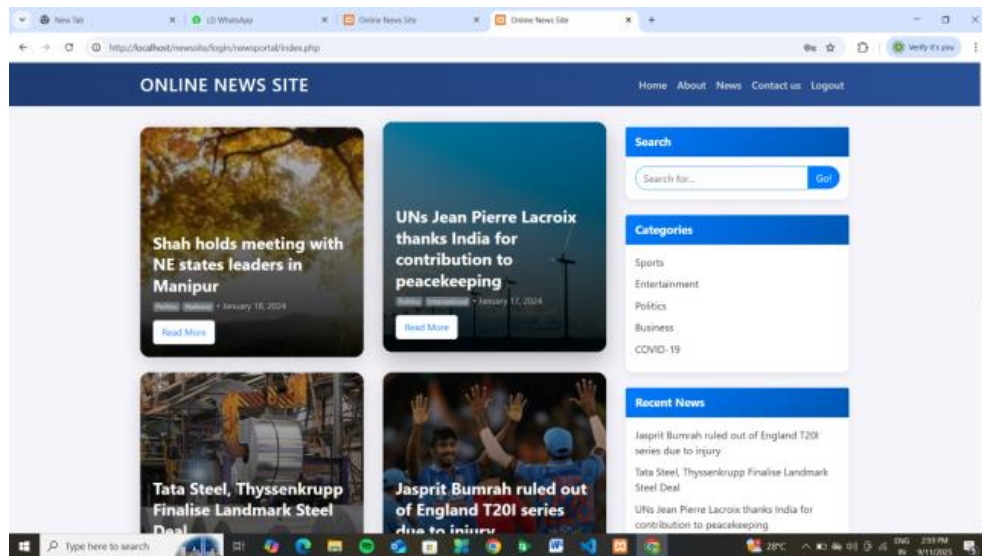
Test Case ID	Test Description	Preconditions	Test Steps	Expected Results	Actual Results	Status	Remarks
TC-01	User registration	User not registered	Enter valid details, click Register	New user created	As expected	Pass	OK
TC-02	User login	Account exists	Enter valid credentials, click Login	Redirect to dashboard	As expected	Pass	OK
TC-03	Post comment	User logged in	Enter comment, click Submit	Comment saved	As expected	Pass	OK
TC-04	News management	Admin logged in	Add/Edit/Delete news	News updated	As expected	Pass	OK
TC-05	Category assignment	News & category exist	Assign category, save	Linked correctly	As expected	Pass	OK

TC-01:

		userid	fullName	emailId	contactNo	address	password	regDate	isActive
	Edit Copy Delete	5	pooja pawar	pooja10@gmail.com	NULL	NULL	\$2y\$10\$QY6B2z7uSdDmnDdOwEloT.ADD.CSVJYUFVP2WcUPQ30...	2025-09-11 21:44:41	1
	Edit Copy Delete	6	saloni	salonikudale11@gmail.com	NULL	NULL	\$2y\$10\$vcToOBmLyZ5W5McXzcCuydWjTMD6qPPdKm0rws1...	2025-09-12 21:33:42	1
	Edit Copy Delete	7	pooja	pooja11@gmail.com	NULL	NULL	\$2y\$10\$WUKEdBQO2tQ768sVBtRp7.ylnlxwYhd4r8bMi8j6g5v...	2025-09-12 21:34:28	1
	Edit Copy Delete	8	asd	pooja110@gmail.com	NULL	NULL	\$2y\$10\$zHHrZCKNvZsKqW3eioBNH.9tYKWLvab12dE9tG1GPZh...	2025-09-12 21:38:55	1

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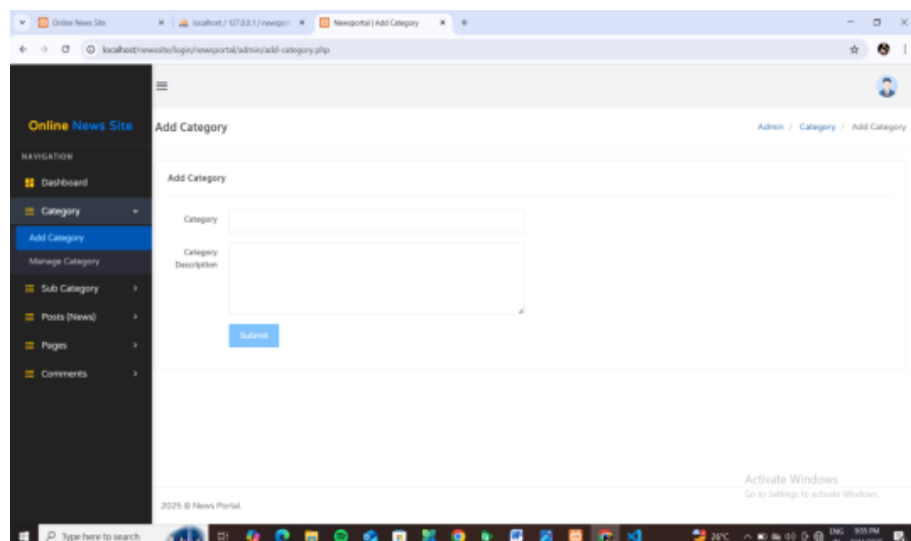
TC-02:



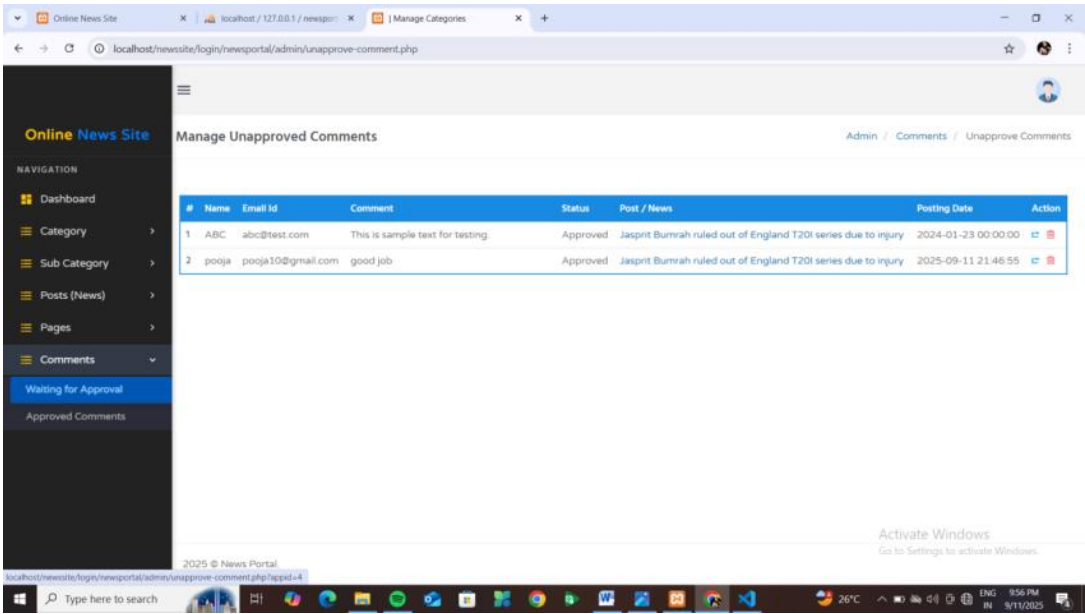
TC-03:

PostTitle	CategoryId	SubCategoryId	PostDetails	PostingDate	UpdateDate	Is_Active	PostUrl
Jasprit Bumrah ruled out of England T20I series du...	3	4	<p style="margin-bottom: 15px; padding: 0px; font-...	2024-01-16 00:00:00	2025-09-12 23:56:45	1	Jasprit-Bumrah-ruled-out-of-England-T20I-series-du...
Tata Steel, Thyssenkrupp Finalise Landmark Steel D	7	9	<h1 style="box-sizing: inherit; margin-top: 0px; p...	2024-01-17 00:00:00	2025-09-12 16:48:51	1	Tata-Steel,-Thyssenkrupp-Finalise-Landmark-SteelD

TC-04:



TC-05:



CHAPTER 7:

CONCLUSION AND

RECOMMENDATION

7.1 Conclusion

The Online News Portal project demonstrates how digital platforms can effectively deliver timely, relevant, and diverse news content to a broad audience. With the rise in internet usage and mobile accessibility, such a platform serves as a modern alternative to traditional news media, offering real-time updates, multimedia integration, and user-friendly features.

7.2 Recommendation

Focus on local news content, prioritize a user-friendly and responsive design, implement strong SEO, and include features like breaking news tickers, image galleries, and comment sections for user engagement.

CHAPTER 8: FUTURE SCOPE

8.1 Future scope:

- Ai generated summaries or audio version of articles.
- Reward system for sharing or commenting.
- Adding Like or dislike feature.

CHAPTER 9: BIBLIOGRAPHY AND REFERENCE

9.1 Bibliography:

- W3Schools – PHP/MySQL or Node.js tutorials
- “Learning PHP, MySQL & JavaScript” by Robin Nixon

9.2 References:

- <https://www.w3schools.com/>