

Taaza Khabar

MCA Semester I MCA-16: Mini Project - I

SUBMITTED IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE
AWARD OF THE DEGREE OF

MASTER OF COMPUTER APPLICATIONS

SUBMITTED TO



KADI SARVA VISHWAVIDYALAYA

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ACKNOWLEDGEMENT

We would like to express my sincere gratitude to all the individuals who have contributed to the successful completion of this project. We would like to thank our supervisor for their guidance and support throughout the project. We also grateful to all the faculty members who have provided valuable insights and feedback.

We would like to acknowledge the support and encouragement of our family and friends, who have been a constant source of motivation for me. We also thankful to all the participants who took part in the study and provided valuable data for analysis.

We would also like to express my appreciation to the staff and resources at the university, without whom this project would not have been possible.

Lastly, we would like to thank everyone who has been a part of this project in any capacity, no matter how big or small. Your contributions have been invaluable, and We are truly grateful for your support

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CERTIFICATE FROM DIRECTOR

This is to certify that the project documentation entitled "Taaza Khabar" is bonafide project work done by Mr. Patel Himanshu , Ranavaya Harshal in partial fulfillment of the requirement for the award of degree of Master of Computer Application at

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We further certify that the project work done by them is original work carried out under the supervision and guidance.

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This is to certify that the project report compiled by Mr. Patel Himanshu, Ravnaya Harshal, student of semester- 1 from MCA department, S. K. Patel Institute of Management & Computer Studies, a constituent college of Kadi Sarva Vishwavidyalaya, Gandhinagar, is done under my guidance. To the best of my knowledge, this work is satisfactorily completed. During the tenure, he/she was found to be very hard working and sincere. He/She completed all the tasks assigned and suggested to him/her.

Comments:

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**Name & sign of Internal
Supervisor**



DECLARATION

We hereby declare that the project entitled “Taaza Khabar” submitted for the M.C.A Degree is my original work and the project has not formed the basis for the award of any degree or any other similar titles in any other University.

Signature of the Student:

1

2

Place: Gandhinagar

Date:

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1. Introduction of Project:

The **TAAZA KHABER News System** is a cutting-edge digital platform designed to transform how news is delivered and consumed. By utilizing modern technologies such as APIs and the internet, this system provides real-time access to news across diverse categories like politics, sports, entertainment, technology, and business. With its focus on interactivity, personalization, and timely updates, it offers a superior alternative to traditional media, ensuring users are always informed and connected to the latest developments.

Key Features of TAAZA KHABER News System:

- **Real-Time News Updates:** Delivers the latest news instantly, ensuring users are always aware of current events.
- **Diverse Categories:** Covers a wide range of topics, including politics, sports, entertainment, technology, and more.
- **Personalized Content:** Uses intelligent algorithms to tailor news recommendations based on user preferences.
- **User-Friendly Interface:** Features an intuitive design with easy navigation and advanced search options.
- **Interactive Features:** Includes comment sections, polls, and social sharing tools for greater engagement.
- **API Integration:** Seamlessly connects to external systems for reliable and up-to-date content delivery.
- **Notifications and Alerts:** Provides instant updates on breaking news and important events.
- **Global Accessibility:** Ensures users can access news anytime, anywhere, through various devices.

2. Current / Existing System:

1. Landing on the Website/App:

When users visit the website or open the app, they are greeted with a homepage displaying trending and breaking news headlines prominently.

2. News Categorization:

Users can navigate through various sections like politics, sports, business, entertainment, and technology via the main menu or category tabs.

3. Search Functionality:

If users want specific information, they can use the search bar to find articles, topics, or keywords across the platform.

4. Personalized Recommendations:

Based on browsing history or user preferences, the system suggests articles or videos relevant to their interests on the homepage or a dedicated "For You" section.

5. Interactive Features:

Users can comment on articles, participate in polls, and share content on social media platforms directly from the website or app.

6. Notifications and Alerts:

Mobile apps or email subscriptions send breaking news alerts or daily summaries, keeping users informed even when they are not actively browsing the site.

7. Subscription or Advertisement:

Users may encounter advertisements as part of the free service or opt for a subscription plan to access premium, ad-free content and exclusive articles.

7.1 Flowchart and Diagram:



Figure 1: Flowchart

7.2 Drawbacks

aspect	Aaj tak	India today
Regional focus	✗ Overlay focused on India news	✗ Primarily Indian centric
Global coverage	✗ Minimal global news coverage	✗ Limited global focus
Multi-language support	✗ Limited to Indian language only	✗ Only support English and Hindi
Ui/Ux	✗ Feels cluttered and ad-heavy	✗ Slightly ad-heavy, can feel overwhelming
Offline support	✗ Doesn't support offline read	✗ Limited to premium app features

8. Proposed System:

The proposed news website aims to redefine how users access and consume information by offering a sleek, user-friendly interface designed to cater to modern browsing habits. Upon visiting the platform, users will encounter a well-organized homepage featuring trending headlines, breaking news, and categorized sections for topics like Politics, Technology, Sports, and Entertainment. Personalization will play a significant role, as the system leverages intelligent algorithms to analyse user preferences and provide tailored news recommendations, ensuring a highly engaging experience. With features like online payments, automated notifications, digital attendance, and inventory tracking, the system ensures efficient and transparent management. Accessible anytime via a mobile-friendly website, it saves time, reduces errors, and enhances convenience for both residents and staff.

The platform will support multi-media content, including articles, videos, podcasts, and photo galleries, making it versatile and appealing to a wide audience. Advanced search functionality with filters for date, category, or region will empower users to find specific information effortlessly. Additionally, real-time updates will ensure that users are always informed about the latest events as they happen. Interactive features like comments, polls, and social sharing options will foster a sense of community, while subscription-based notifications and alerts will keep users connected to their topics of interest.

8.1 Module

➤ Admin Module

1. Dashboard Overview:

- A centralized dashboard displaying key metrics such as the number of published articles, active users, traffic analytics, and recent activities for quick insights.

2. Content Management:

- Create, edit, and delete news articles, multimedia content (images, videos, podcasts), and categories.
- Schedule articles for future publication or set them as drafts.
- Tag articles with keywords for better categorization and search optimization.

3. User Management:

- Manage user accounts, including roles (e.g., admin, editor, subscriber).
- Monitor user activity and handle issues such as reported content or account suspension.
- Send notifications or announcements to all users.

4. Category and Tag Management:

- Add, update, or remove categories and tags to ensure content is organized effectively.
- Monitor trending topics and adjust categories accordingly.

5. Advertisement Management:

- Upload and manage advertisements displayed on the website.
- Track ad performance through click-through rates (CTR) and impressions.

6. Analytics and Reporting:

- Access detailed reports on user engagement, article performance, and site traffic.
- Identify trends and popular content through visual graphs and statistics.

7. Real-Time Notifications:

- Push breaking news alerts or important updates to users through email or app notifications.
- Monitor and approve notifications created by editors or contributors.

8. Settings and Configurations:

- Manage website settings, including themes, layouts, and regional preferences.
- Integrate APIs for content feeds or third-party tools.
- Ensure compliance with privacy policies and data security regulations.

➤ **User Module**

1. User Registration and Login:

- Users can sign up with an email, mobile number, or third-party accounts (Google, Facebook).
- Secure login options with two-factor authentication (optional).
- Guest users can browse limited content without registration.

2. Personalized Dashboard:

- Registered users get a personalized homepage displaying tailored news recommendations based on their interests.
- Access to saved articles, reading history, and preferred topics.

3. Content Browsing and Search:

- Explore news articles across categories like Politics, Sports, Technology, Entertainment, and more.
- Use advanced search filters (e.g., date, category, region) to find specific content.

4. Interactive Features:

- Comment on articles and participate in discussions.
- Like, bookmark, or share articles across social media platforms.
- Take part in polls, quizzes, or live chats integrated into the platform.

5. Notifications and Alerts:

- Receive real-time alerts for breaking news or updates in their chosen categories.
- Customize notification settings to control the frequency and type of alerts.

6. Subscription Options:

- Access premium features, such as ad-free browsing and exclusive articles, through subscription plans.
- View payment history and manage subscription settings from their profile.

7. Multimedia Accessibility:

- Watch embedded videos, listen to podcasts, or view photo galleries directly on the platform.

- Adjust playback settings or download content where allowed.

8. Multi-Device Compatibility:

- Seamless access to content across devices, including desktops, tablets, and smartphones.
- Progress sync for reading articles or watching videos on multiple devices.

9. Feedback and Support:

- Submit feedback, report issues, or request support via a dedicated Help section.
- Access FAQs for common queries and solutions.

8.2 Admin Features:

1. Dashboard:

- A centralized hub to monitor site performance, user statistics, published articles, and overall traffic.

2. Content Management:

- Admins can create, edit, schedule, and delete news articles, manage multimedia content, and organize them into categories.

3. User and Role Management:

- Manage user accounts, assign roles (Admin, Editor, Subscriber), and track user activity or handle flagged content.

4. Category and Tag Management:

- Organize news into categories, manage tags, and update them to reflect the latest trends and topics.

5. Advertisement Management:

- Upload and manage ads displayed on the website, track performance metrics like impressions and click-through rates.

6. Real-Time Notifications:

- Send push notifications for breaking news, updates, or other important alerts to users.

7. Analytics and Reporting:

- Generate detailed reports on site traffic, article performance, and user engagement, providing insights for content strategy.

8.3 User Features:

1. User Registration and Login:

- Users can sign up via email or social media accounts (Google, Facebook), and log in securely to access personalized content and features.

2. Personalized News Feed:

- Based on user interests and browsing behavior, the system will suggest relevant articles, ensuring a personalized and engaging experience.

3. Content Browsing and Search:

- Users can browse news by categories such as Politics, Sports, Entertainment, and more.
- Advanced search functionality allows users to filter articles by date, category, region, or keywords.

4. Interactive Features:

- Users can comment on articles, share them on social media, and participate in polls or quizzes to engage with the content.

5. Notifications and Alerts:

- Users can receive real-time notifications for breaking news or updates on specific topics they follow, customized based on their preferences.

6. Save and Bookmark Articles:

- Users can bookmark articles for later reading, save them in their profile, and easily access them at any time.

7. Subscription Options:

- Users can subscribe to premium features, gaining access to exclusive content, ad-free browsing, and advanced functionalities.

1.1 Scope:

The **TAAZA KHAS** News System aims to revolutionize the way users consume news by offering real-time updates, personalized content, and access to diverse topics. It bridges the gap between traditional media and digital platforms, leveraging API and internet technologies to deliver interactive and timely news experiences.

1. Hardware and Software Specification:

- **Hardware Requirement:**

- **Student Side:**

- **Device:** Any device with internet access
 - **Processor:** Dual-core (1.8 GHz or better)
 - **RAM:** 2 GB (Minimum), 4 GB (Recommended)
 - **Storage:** 20 GB HDD/SSD

- **Admin Side:**

- **Processor:** Dual-core (2.0 GHz) or Quad-core (Recommended)
 - **RAM:** 4 GB (Minimum), 8 GB (Recommended)
 - **Storage:** 50 GB HDD (Minimum), 128 GB SSD (Recommended)
 - **Network:** 5 Mbps Internet speed (Minimum), 10 Mbps (Recommended)

- **Software Requirement:**

- **Student Side:**

- **Browser:** Latest versions of Chrome, Firefox, or Edge
 - **Internet Connection:** Stable connection for website access and transactions

- **Admin Side:**

- **Backend:** Node.js, Express.js
 - **Database:** MongoDB
 - **Admin Panel:** React.js (or similar)
 - **OS:** Ubuntu Server 22.04 LTS or Windows Server 2016+

2. Analysis:

- **Fact Finding Method:**

FEATURE	AAJ TAK	INDIA TODAY
Regional lang support	✓	✓
Live tv/ streaming	✓	✓
Multi language content	✓	✓
Breaking news alerts	✓	✓
Video news coverage	✓	✓

- **Feasibility Study:**

1. Technical Feasibility

- News Api for global news custom Apis/rss for Indian news
- React, node, express, MySQL
- Use googles translate Api pre translated feeds regional support
- YouTube Api for videos, and push notifications

2. Operational Feasibility

- Developers, designers, and testers for app creation.
- Content curators and moderators for news verification.
- Marketing team for user acquisition.

3. Economic Feasibility

- App design and development.
- Server and database setup.
- Licensing for APIs or third-party tools.

4. Schedule Feasibility

- Prototype: 2-3 months.
- Full-scale development: 6-8 months.
- Testing and launch: 2 months.

- **Process Model:**

- **Agile Model**

The **Agile Model** for the TAAZA Khabar News Website is an iterative and flexible approach to developing the platform. It focuses on delivering incremental updates and features in short development cycles, known as sprints. Each sprint aims to enhance a specific functionality of the website, such as user interface improvements, content management tools, or real-time notifications.

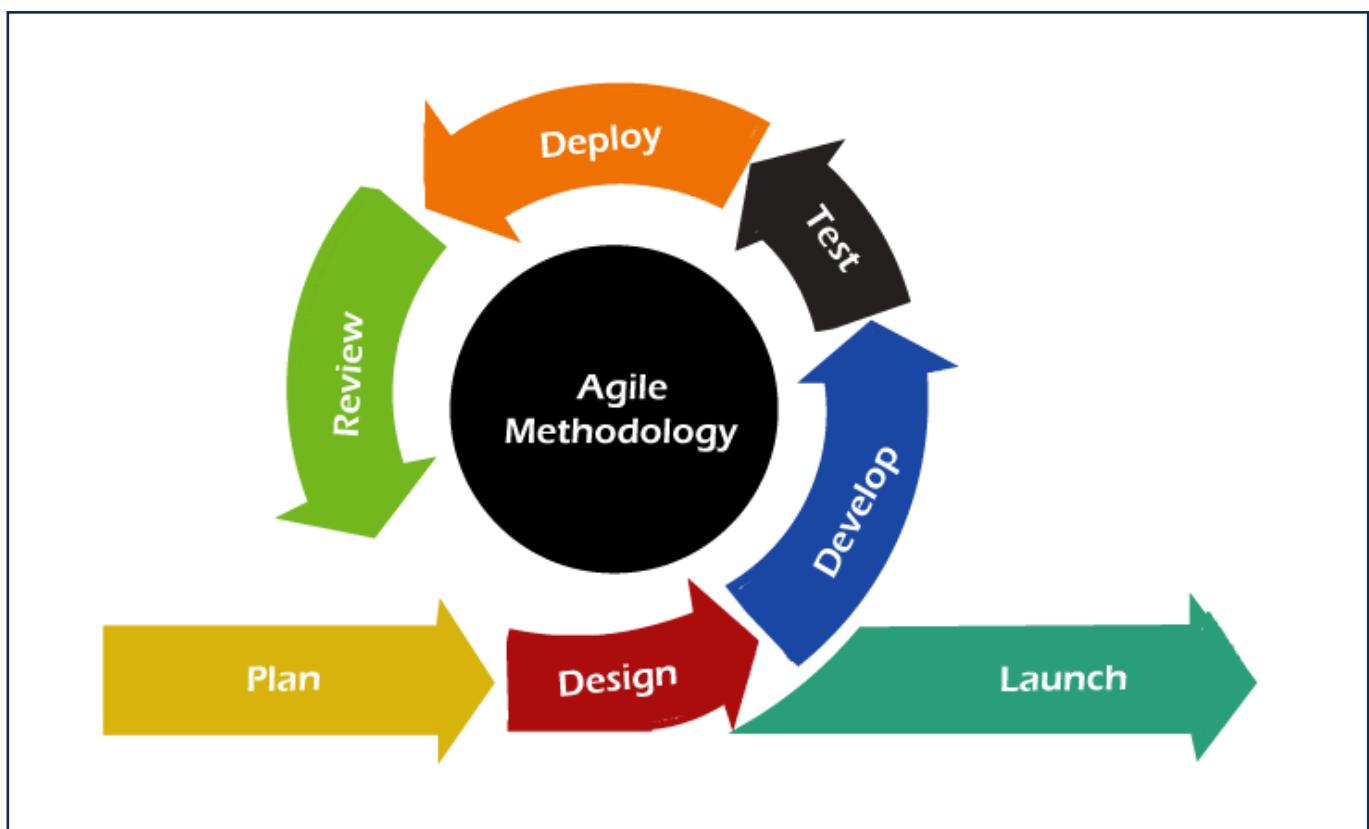


Figure 2: Agile Model Design

1. **Iterative and Incremental Development**

- Releases small, functional updates regularly.

2. **Flexibility and Adaptability**

- Adjusts to changing user feedback and market trends.

3. **Active Collaboration**

- Fosters teamwork among developers, stakeholders, and users.

4. **Continuous Testing and Improvement**

- Ensures quality through ongoing testing in every sprint.

- **Diagram:**

4..1 Estimate Gantt Chart

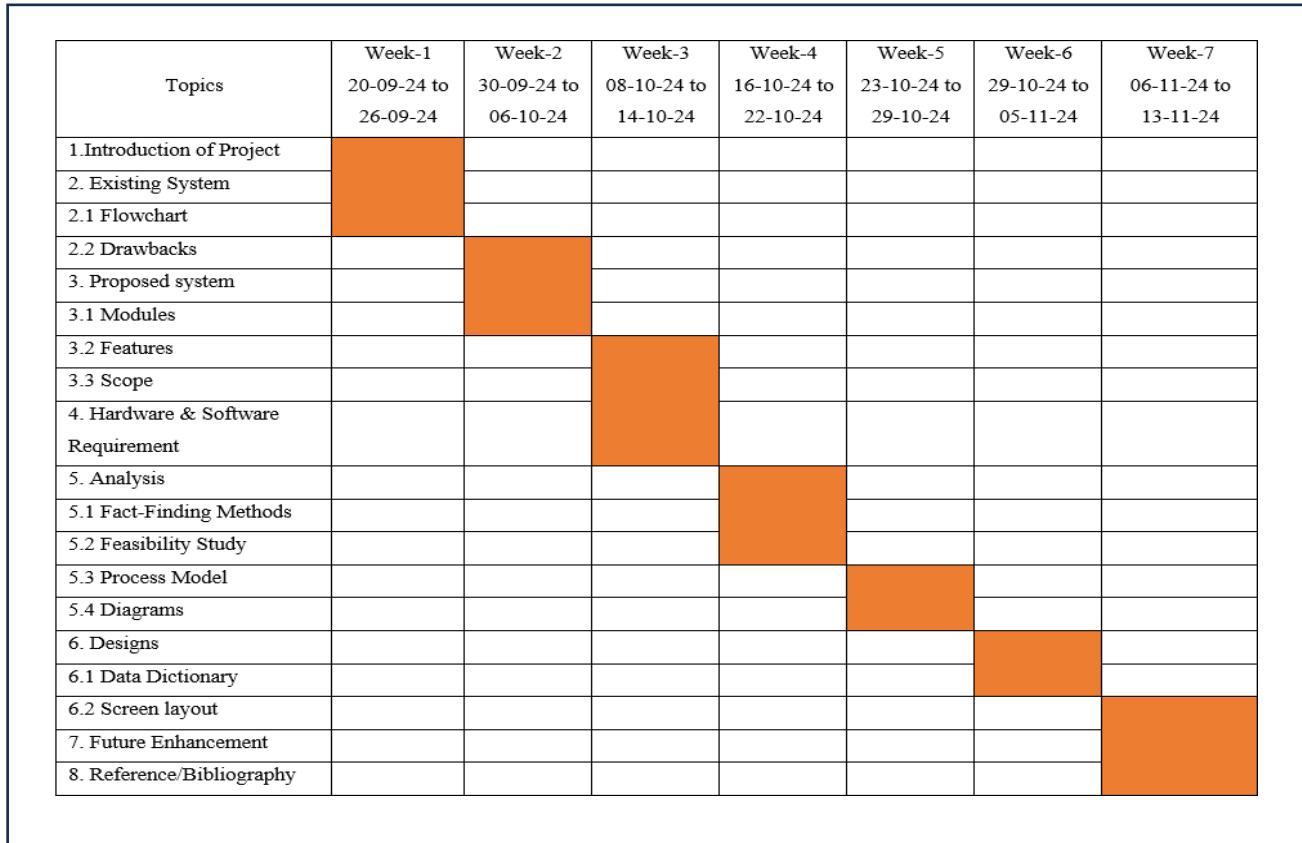


Figure 3 Gantt Chart

4..2 UML Diagram (Use Case, Activity, Class):

➤ **Use Case:**

- **Admin:**

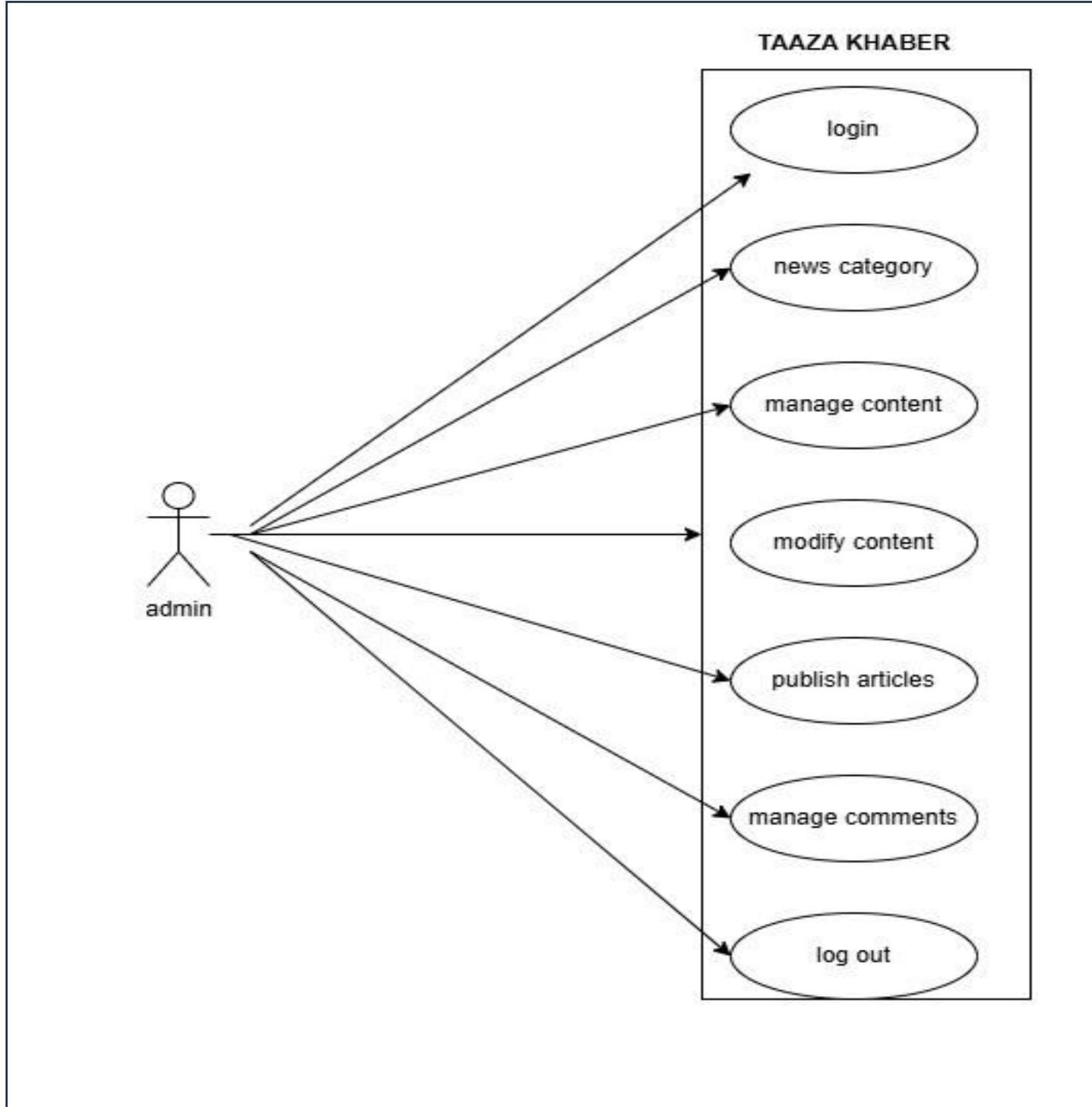


Figure 4 (a) Admin Use Case Diagram

o User:

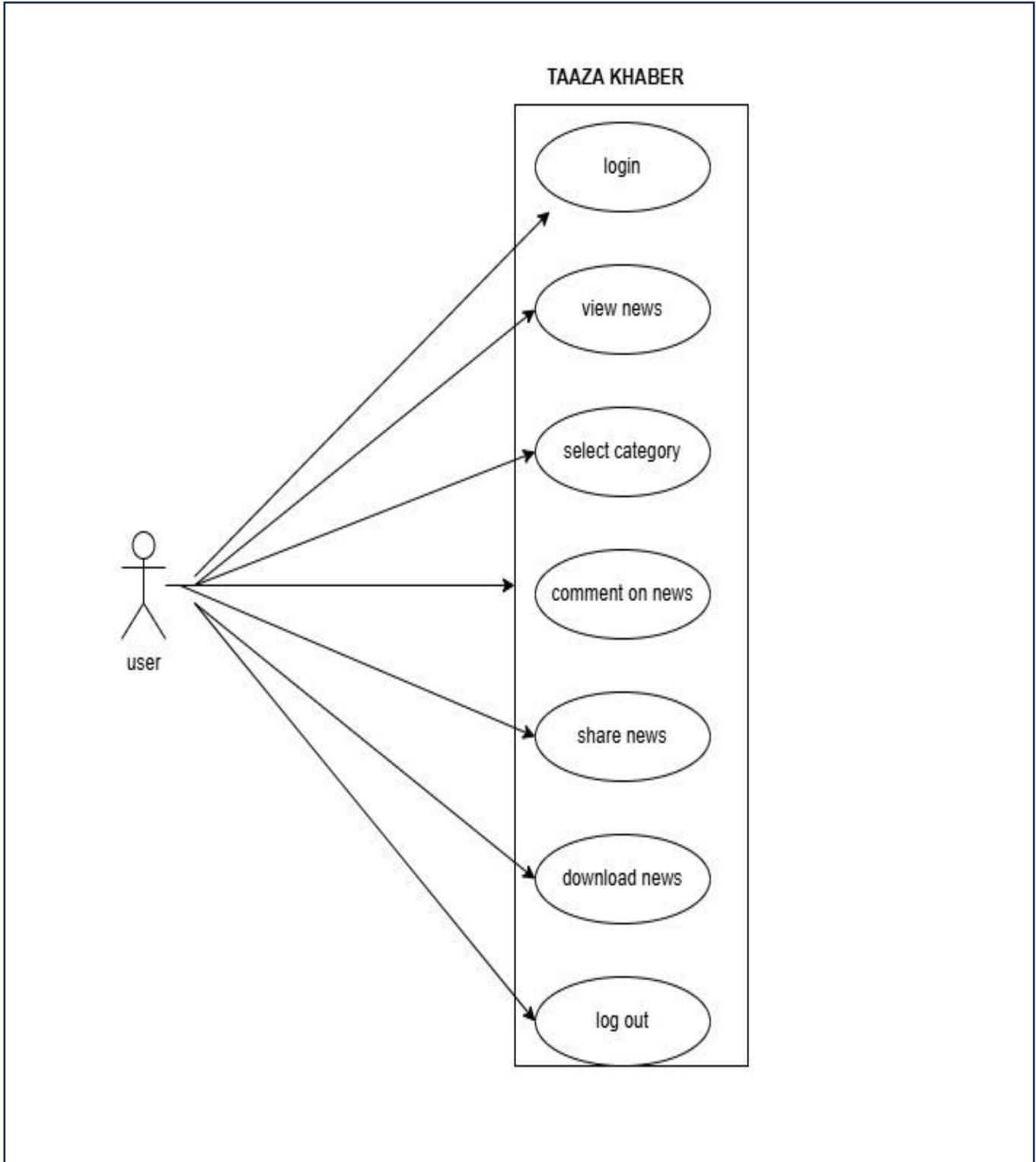


Figure 4 (b) user Use Case Diagram

➤ **Activity Diagram:**

○ **Admin**

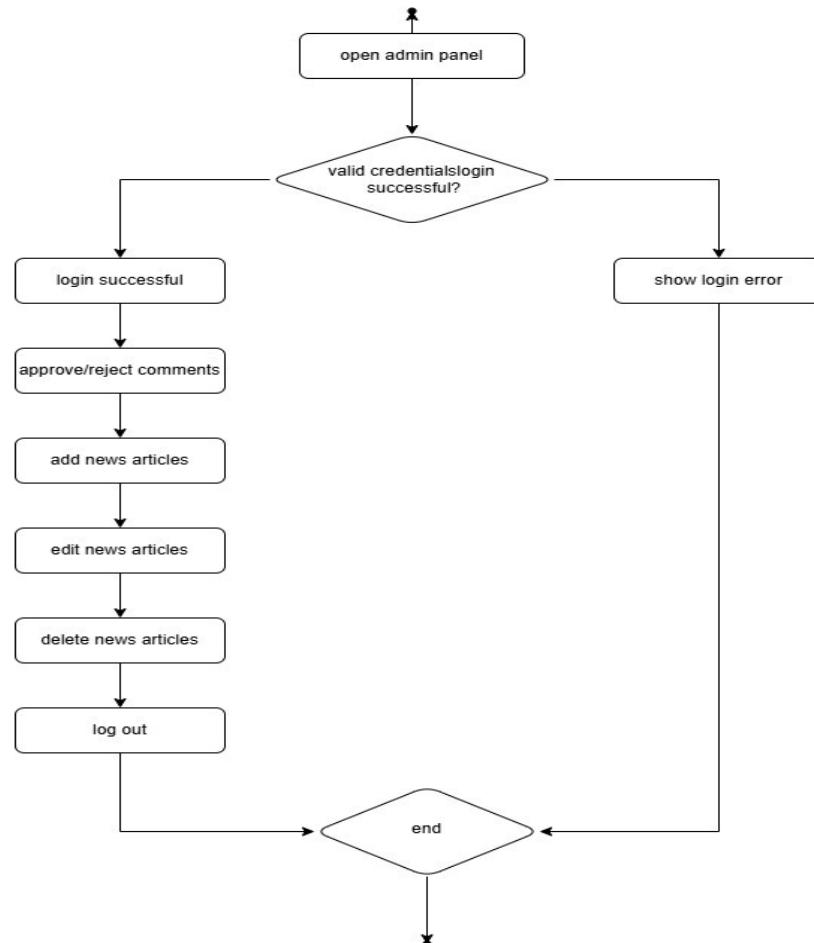


Figure 5 (a) Admin Activity Diagram

o **User:**

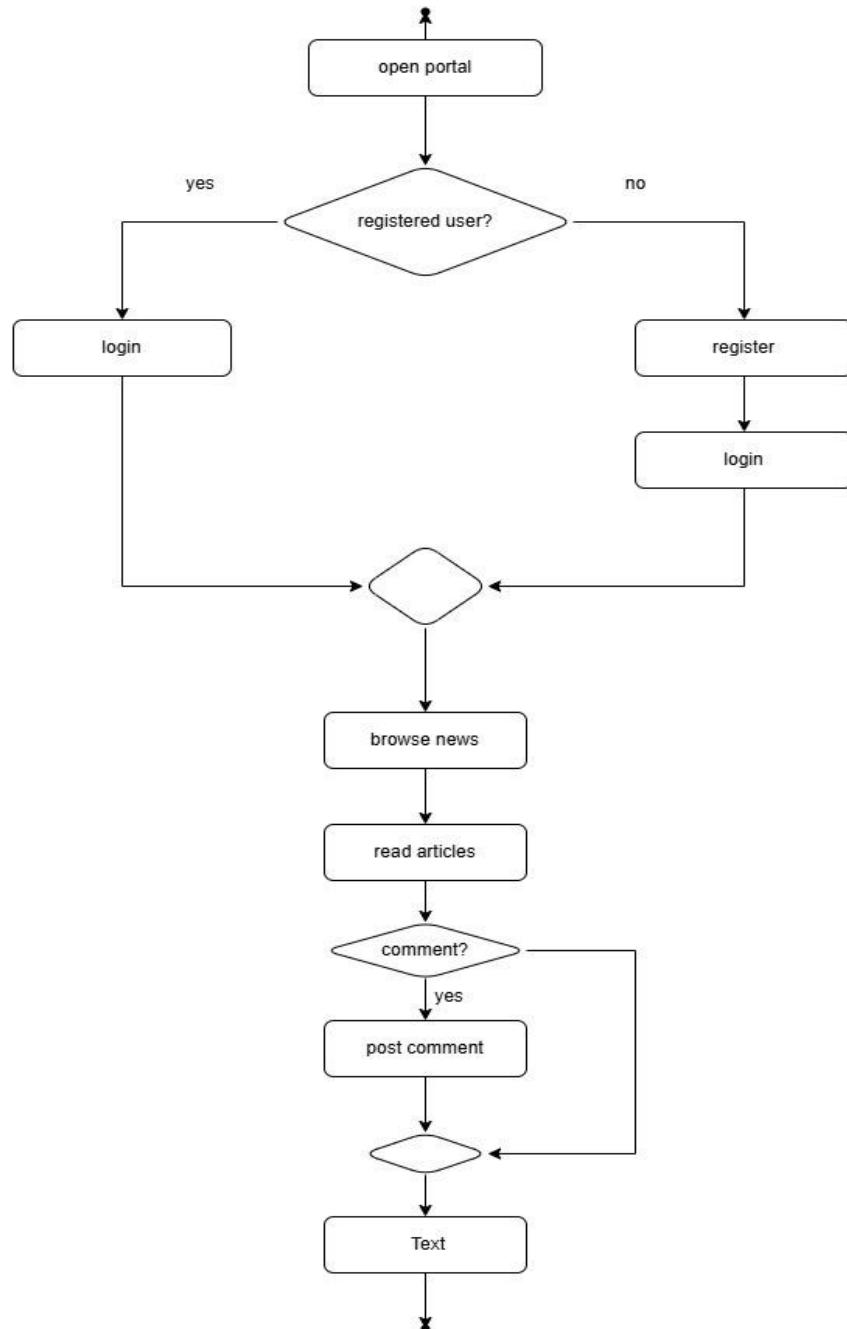


Figure 5 (b) user Activity Diagram

➤ Class Diagram:

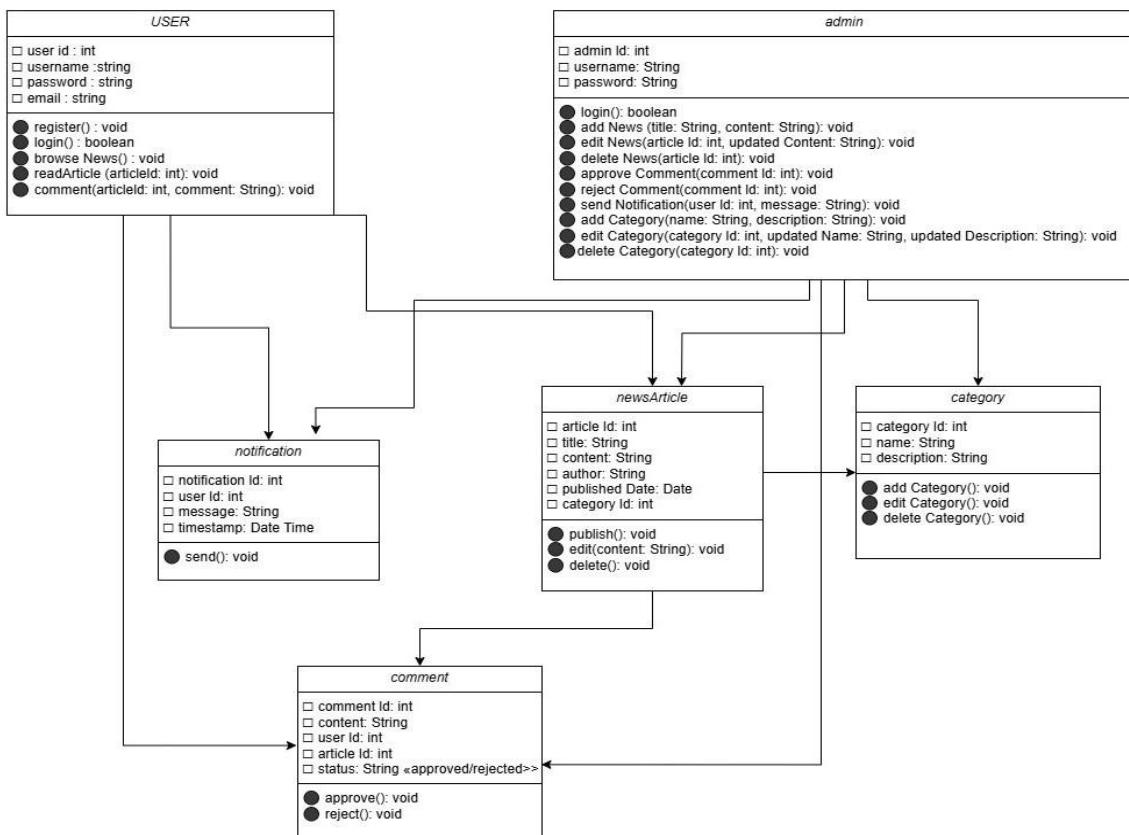


Figure 6 Class diagram

5. Design

- **Data Dictionary**

5..1 User Table

- **Table 1:** user
 - Primary Key: userId
 - Table Designing

Field Name	Datatype	Field Size	Constraints	Description
userId	INT	11	PRIMARY KEY	Unique identifier each user
username	VARCHAR	255	NOT NULL, UNIQUE	User's login name
password	VARCHAR	255	NOT NULL	User's password
email	VARCHAR	255	NOT NULL, UNIQUE	User's email address

- **Table 2:** Admin
 - Primary Key: adminId
 - Table Designing

Field Name	Datatype	Field Size	Constraints	Description
adminId	INT	11	PRIMARY KEY	Unique identifier for each admin
username	VARCHAR	255	NOT NULL, UNIQUE	Admin's login name
password	VARCHAR	255	NOT NULL	Admin's password

➤ **Table 3:** Article table

- Primary Key: Doc_Id
- Table Designing

Field Name	Datatype	Field Size	Constraints	Description
articleId	INT	11	PRIMARY KEY	Unique identifier for each article
title	VARCHAR	255	NOT NULL	Title of the article
content	TEXT	-	NOT NULL	Main content of the article
author	VARCHAR	255	NOT NULL	Author of the article
publishedDate	DATE	-	NOT NULL	Date of article publication
categoryId	INT	11	FOREIGN KEY	Foreign key to the Category table

➤ **Table 4:** comment Table

- Primary Key: commentId
- Table Designing

Field Name	Datatype	Field Size	Constraints	Description
commentId	INT	11	PRIMARY KEY	Unique identifier for each comment
content	TEXT	11	NOT NULL	Content of the comment
userId	INT	11	FOREIGN KEY	Foreign key to the User table
articleId	INT	11	FOREIGN KEY	Foreign key to the NewsArticle table
status	ENUM	('approved', 'rejected')	NOT NULL	Approval status of the comment

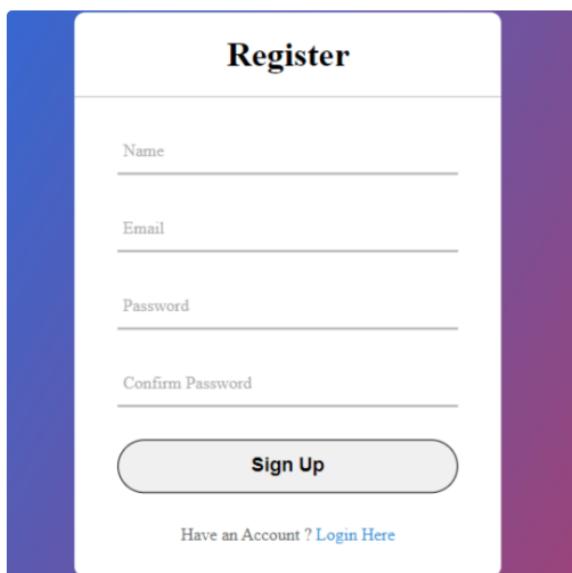
- **Table 5:** notification Table
- **Primary Key:** notificationId
- **Table Designing**

Field Name	Datatype	Field Size	Constraints	Description
notificationId	INT	11	PRIMARY KEY	Unique identifier for each notification
userId	INT	11	FOREIGN KEY	Foreign key to the User table
message	TEXT	255	NOT NULL	Content of the notification
timestamp	DATETIME	-	NOT NULL	Time when the notification was sent

- **Table 6:** category Table
- **Primary Key:** categoryId
- **Table Designing**

Field Name	Datatype	Field Size	Constraints	Description
categoryId	INT	11	PRIMARY KEY	Unique identifier for each category
name	VARCHAR	255	NOT NULL	Name of the category
description	TEXT	255	NULABLE	Description of the category

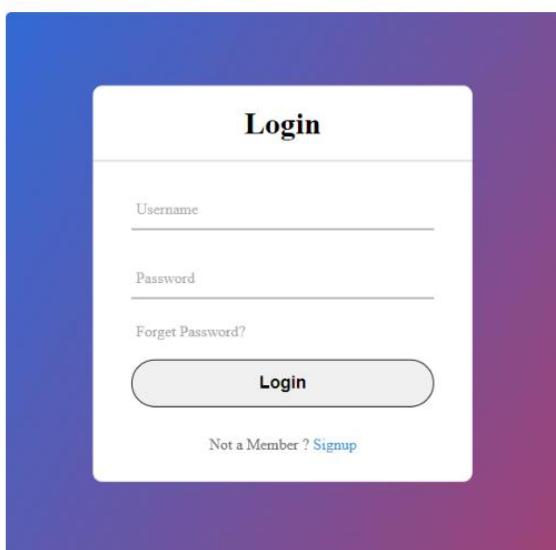
- **Screens / Forms:**
 - **User Screens:**
- **User Register:**



A registration form titled "Register". It contains four input fields: "Name", "Email", "Password", and "Confirm Password". Below the fields is a "Sign Up" button. At the bottom, there is a link "Have an Account ? Login Here".

Register	
Name	<input type="text"/>
Email	<input type="text"/>
Password	<input type="password"/>
Confirm Password	<input type="password"/>
Sign Up	
Have an Account ? Login Here	

- **user Login:**



A login form titled "Login". It contains two input fields: "Username" and "Password". Below the fields is a "Login" button. At the bottom, there is a link "Forgot Password?" and a link "Not a Member ? Signup".

Login	
Username	<input type="text"/>
Password	<input type="password"/>
Forgot Password?	
Login	
Not a Member ? Signup	

- User Home page:

HOME | ABOUT US | DEMO PAGE | CONTACT PAGE

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TAZA KHABAR

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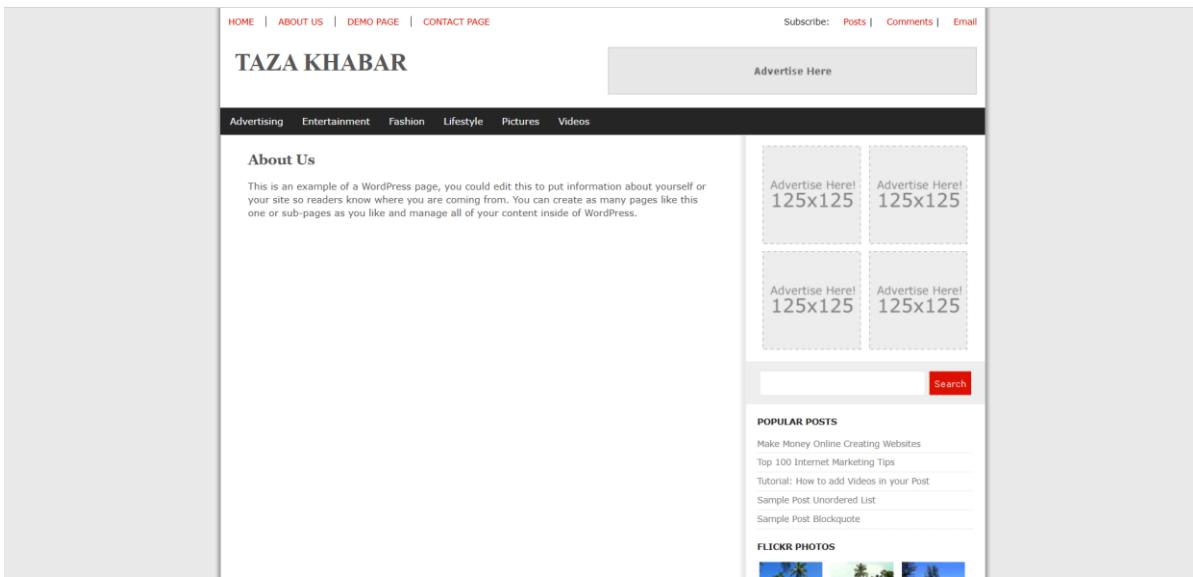
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➤ **Admin Screens / Forms:**

- **Admin Sign in:**

A screenshot of an Admin Login form. The form has a blue and purple gradient background. It features a large central white box with rounded corners. The word "Login" is centered at the top of this box. Below it is a "Username" input field with the placeholder text "Username". Below that is a "Password" input field with the placeholder text "Password". To the right of the password field is a "Forgot Password?" link. At the bottom of the white box is a large, rounded rectangular button with the word "Login" in the center. At the very bottom of the white box, outside the main form area, is a link "Not a Member? Signup".

- **Admin Panel:**

The screenshot displays the Admin Dashboard interface. On the left, a dark sidebar contains a navigation menu with the following items: Admin Dashboard (selected), Dashboard, Articles, Comments, Reports, and Settings. The main content area is titled "Dashboard". It features three summary cards: "Total Articles" (45), "Total Comments" (234), and "Total Views" (12,345). Below these cards is a section titled "Recent Activity" which lists three recent events: "New article published: Breaking News on Tech 2 hours ago", "New comment on Politics Today 5 hours ago", and "New user registered: JohnDoe123 1 day ago". In the top right corner of the dashboard area, there is a "Log Out" button.

6. Future Enhancement:

- **Integration with Biometric Systems**

Add a biometric authentication system for secure room access and attendance tracking to enhance security and reduce manual errors.

- **Mobile Application Support**

Develop a mobile app version of the system to enable students and administrators to access functionalities on-the-go, such as submitting leave requests, making payments, or receiving notifications.

- **AI-Powered Complaint Resolution**

Implement AI-based systems to categorize and prioritize complaints, suggesting resolutions and automating minor fixes for faster problem-solving.

- **Advanced Analytics and Insights**

Incorporate data visualization tools to generate detailed insights and trends for room usage, fee payment delays, and complaint types for better decision-making.

- **Multi-Language Support**

Introduce multi-language options to cater to a diverse student and administrative user base, making the platform more user-friendly for non-native English speakers.

7. Reference / Bibliography:

Existing System

- Aajtak - <https://www.aajtak.in/>
- Times of INDIA - <http://timesofindia.indiatimes.com/>