

# **TUTUBAN: A PHP BASED FAKE NEWS DETECTION SYSTEM**

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## INTRODUCTION

In today's modern world, the accessibility of news online has been easier, as users can read articles with just one click. However, this presents new challenges with how people interact with the news media, especially online: fact-checking. The rise of fake news lately has changed society as it affects the political climate of a particular community by spreading malicious propaganda, influencing the election outcomes, or spreading lies and harm to a person or group of people (European Data Protection Supervisor, 2024).

The Philippines has been a breeding ground for testing malicious machinery to spread misinformation to the public to favor a high-ranking individual leaning towards right-wing ideology. For example, Cambridge Analytica used the Philippines as a guinea pig for testing tactics used for behavior modification, among which disseminating propaganda and manipulating voter opinion (Reesa, 2020). As a result, the Philippines is having a rise in fascism due to the effects of these propagandas, with such institutions setting up troll farms to propagate malicious intent to certain entities to indirectly change the behavior of the public.

In recent years, the Philippines' democracy has been getting worse because of the rise of troll farms. These are groups of fake social media accounts that are used to spread lies and attack people who disagree with certain political views. Often, powerful people or groups with strong political connections support these troll farms. Their goal is to scare people, spread false information, and control what the public thinks. Because of this, society is becoming more divided. People are starting to trust the news less, and social media is being used more to push ads and lies instead of real, fact-based information. Now more than ever, it's important for Filipinos to learn how to spot fake news, hold powerful groups accountable, and have clear rules for how information is shared online.

To address this growing problem, our system was developed as an initial step toward helping readers identify unreliable content. It uses a lexicon-based approach to analyze the language used in news articles and detect potentially misleading or biased wording. By examining the tone and patterns of word choice, the system aims to highlight red flags that may indicate fake or manipulative content. While it is not a complete solution, this tool provides a

basic method for promoting media literacy and encouraging critical thinking when engaging with online information.

## OBJECTIVES

The objective of the project is to detect fake news articles via Lexicon-Based Analysis to ensure the validity of the user-submitted content. The main goal for the system is to create an algorithm that could automatically detect any articles that are potentially be subjected as fake based on the predefined list of keywords or phrases saved in the database. These flagged articles are then subject to manual verification by an administrator to determine the final verdict.

### **The admin has the following objectives:**

- Administrators have complete control over user account management, such as the ability to add, edit, and delete user accounts.
- Administrators have the power to create, update, and delete news article categories.
- Administrators are responsible for manually reviewing articles and updating their status based on the results of the automatic detection.
- Administrators can view reports via charts and graphs.
- Administrators can access the activity logs for auditing and documentation purposes.
- Administrators can export system data for external review or further analysis.

### **The user has the following objectives:**

- Users can access a dashboard that provides an overview of their activities within the system.
- Users can submit news articles, which will undergo automated fake news detection followed by manual review.
- Users can view the detection result and current status of their submitted articles.
- Users have access to a collection of articles approved by the administrators.
- Users can update their personal account details or choose to deactivate their account.

## USER STORY

### Admin

LOGO

#### Login with brand name

Lore ipsum is simply dummy text of the printing and typesetting industry.

Username

Enter your Password

Remember me?

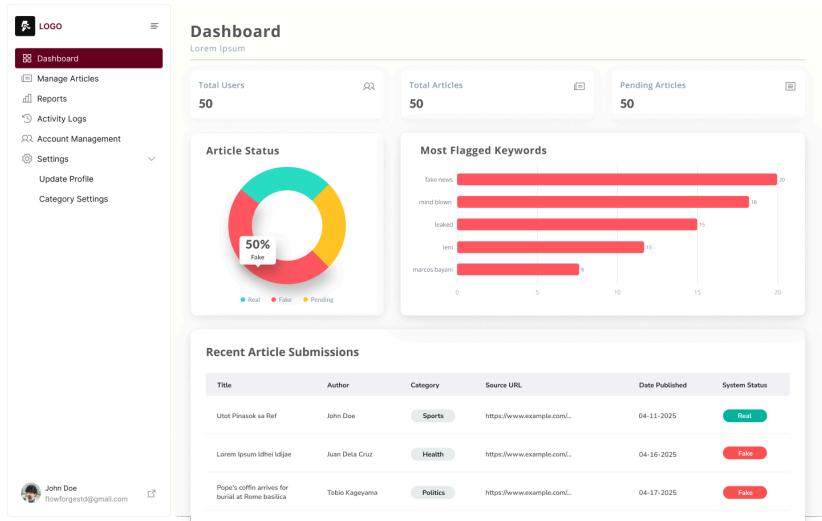
[Forgot Password ?](#)

Don't have a account? [Register Now.](#)

**Log In**



**Login Page:** It's where you type your username and password to get into the system.



The dashboard features a sidebar with navigation links: Dashboard, Manage Articles, Reports, Activity Logs, Account Management, Settings, Update Profile, and Category Settings. The main area includes the following components:

- Total Users:** 50
- Total Articles:** 50
- Pending Articles:** 50
- Article Status:** A donut chart showing 50% Fake, 25% Real, and 25% Pending.
- Most Flagged Keywords:** A bar chart showing flagged keywords and their counts:

Keyword	Count
fake news	20
mind blown	18
leaked	15
teni	13
marcos bayan	8
- Recent Article Submissions:** A table listing recent submissions with columns: Title, Author, Category, Source URL, Date Published, and System Status (Real or Fake).

Title	Author	Category	Source URL	Date Published	System Status
Utot Pinasok sa Ref	John Doe	Sports	<a href="https://www.example.com/">https://www.example.com/...</a>	04-11-2025	Real
Lorem Ipsum Ithoi Idjiae	Juan Dela Cruz	Health	<a href="https://www.example.com/">https://www.example.com/...</a>	04-16-2025	Fake
Pope's coffin arrives for burial at Rome basilica	Tobio Kageyama	Politics	<a href="https://www.example.com/">https://www.example.com/...</a>	04-17-2025	Fake

**Admin Dashboard:** This is like the main overview page. It shows you quick numbers like total users and articles, a chart about article types (real/fake), the most common bad words found in articles, and a list of the newest articles that were submitted.

ID	Article Title	Author	Category	Source Article	System Flag	Approval	Actions
1	Noida Bank Employee Booked For Illicity Transferring	John Doe	News	<a href="#">Link</a>	Real	Real	<a href="#">View</a>
2	Dunki Release LIVE Updates: SRK Fans Call Film...	John Doe	World	<a href="#">Link</a>	Fake	Pending	<a href="#">View</a>
3	There's A Message In the Suspension Spree...	Juan Dela Cruz	Technology	<a href="#">Link</a>	Real	Real	<a href="#">View</a>
4	How 150 Meetings by Amit Shah and 3,200 Suggestion	Juan Dela Cruz	Science	<a href="#">Link</a>	Real	Pending	<a href="#">View</a>
5	Noida Bank Employee Booked For Illicity Transferring	John Doe	Feature	<a href="#">Link</a>	Fake	Fake	<a href="#">View</a>
6	Dunki Release LIVE Updates: SRK Fans Call Film...	John Doe	Editorial	<a href="#">Link</a>	Fake	Real	<a href="#">View</a>
7	There's A Message In the Suspension Spree...	Juan Dela Cruz	News	<a href="#">Link</a>	Real	Pending	<a href="#">View</a>
8	How 150 Meetings by Amit Shah and 3,200 Suggestion	Juan Dela Cruz	World	<a href="#">Link</a>	Fake	Fake	<a href="#">View</a>
9	Noida Bank Employee Booked For Illicity Transferring	John Doe	Technology	<a href="#">Link</a>	Fake	Pending	<a href="#">View</a>

**Manage Articles (List View):** This page shows a list of all the articles. For each article, you can see its ID, title, author, category, where it came from, if the system thinks it's real or fake, if it's approved, and options to view or change it. You can search for articles and change how many you see on the page.

**Manage Articles (Card View):** Instead of a list, this page shows each article in its own box (card). Each card gives you a quick look at the title, a bit of the content, the category, who wrote it, when it was posted, and if it's flagged as real or fake and its approval status. You can still search and change how many you see.

This screenshot shows the 'View Articles' page from a web application. On the left, a sidebar menu includes 'User Overview', 'My Articles' (which is selected), 'Explore', 'Settings', and 'Update Profile'. The main content area displays an article titled 'Obiena finishes 5th in Shanghai Diamond League, Duplantis on top again' under the 'Sports' category. The article was posted by 'john Doe' on 'Jan 13, 2025'. A large image of a female athlete performing a pole vault is shown. To the right of the article, there's a summary box with the following details:

- This article is**: 75% Fake
- Total words analyzed: 63
- Fake News Score: 14
- Flagged Keywords: jumping, Duplantis, USA, Obiena, Shanghai
- Approval Status: Pending
- The article has been voted for fake news twice.
- Would you like to change the article status now?
- Change Status

The main article text is a placeholder Latin text. Below the article, it says 'Sources:' followed by a link: <https://www.redder.com/sports/pole-vault-results-obiena-shanghai-diamond-league-may-2025/>.

**View Articles (Analysis Results):** After the check, this page shows the article and the results. On the side, it gives a score (like 75% fake), lists words that were flagged as suspicious, and says if the article is waiting for approval. It also asks if you want to change the approval status.

This screenshot shows the 'Approve Articles' page. The sidebar menu is identical to the previous screen. The main content area shows the same article about Obiena finishing 5th in the Shanghai Diamond League. To the right of the article, there's a summary box with the following details:

- This article is**: 75% Fake
- Total words analyzed: 63
- Fake News Score: 14
- Flagged Keywords: jumping, Duplantis, USA, Obiena, Shanghai
- Approval Status: Pending
- The article has been voted for fake news twice.
- Would you like to change the article status now?
- Change Status

Below the summary box, there's an 'Article Approval Status' form with fields for 'Select Approval' (dropdown menu) and 'Reason' (text area). The 'Reason' field contains placeholder text: 'Type your reason for approved/rejected'. At the bottom of the page, there's a note: 'Sources: https://www.redder.com/sports/pole-vault-results-obiena-shanghai-diamond-league-may-2025/'.

**Approve Articles:** This page is similar to the analyzed article view, but now there's a pop-up box asking you to decide if the article should be approved or not. You can also type a reason for your decision.

ID	Account Name	Username	Birth Date	Address	Email	Contact Number	Gender	Role	Active	Actions
1	Balaji Nant	username123	01-01-2025	Vancouver	example@gmail.com	0917000000	M	Admin	Active	<span>Edit</span> <span>Delete</span>
2	Balaji Nant	username123	01-01-2025	Bangalore	example@gmail.com	0917000000	M	User	Active	<span>Edit</span> <span>Delete</span>
3	Meera Gonzalez	username123	01-01-2025	Toronto	example@gmail.com	0917000000	F	Admin	Active	<span>Edit</span> <span>Delete</span>
4	Karthik Subramanian	username123	01-01-2025	Chennai	example@gmail.com	0917000000	F	User	Active	<span>Edit</span> <span>Delete</span>
5	Mitika B	username123	01-01-2025	Vancouver	example@gmail.com	0917000000	Other	Admin	Active	<span>Edit</span> <span>Delete</span>
6	Jagadeesh Narayanan	username123	01-01-2025	Chennai	example@gmail.com	0917000000	M	User	Active	<span>Edit</span> <span>Delete</span>
7	Steve Rogers	username123	01-01-2025	Toronto	example@gmail.com	0917000000	Other	User	Active	<span>Edit</span> <span>Delete</span>
8	Richard Hendricks	username123	01-01-2025	Palo Alto	example@gmail.com	0917000000	F	User	Inactive	<span>Edit</span> <span>Delete</span>
9	Monica Patel	username123	01-01-2025	Bangalore	example@gmail.com	0917000000	Other	User	Inactive	<span>Edit</span> <span>Delete</span>
10	Dinesh Kumar	username123	01-01-2025	Chennai	example@gmail.com	0917000000	F	User	Inactive	<span>Edit</span> <span>Delete</span>

Show: 10 rows ...

**Account Management (List View):** This page lists all the user accounts in the system. For each user, you can see their ID, name, username, birthday, address, email, phone number, gender, their role (like admin or user), if their account is active, and options to edit or delete their account. You can search for users and add new ones.

**Add Account**

<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;">First Name Enter your first name here</div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;">Last Name Enter your last name here</div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;">Username Enter your username here</div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;">Email eg: john@email.com</div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;">Address Enter your Address Here</div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;">Date of Birth 2025-04-27</div>	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;">Password Enter your Password here</div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;">Confirm Password Confirm Password</div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;">Phone Number +91 9876543210</div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;">Gender Select Gender</div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;">Role Select Role</div>
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**Add Account**

**Account Management (Add New User):** This is the pop-up form you see when you want to create a new user account. It has fields for all the user's information like name, username, password, contact details, etc.

The screenshot shows a 'Update Profile' form titled 'General Profile'. It contains fields for First Name, Last Name, Date of Birth, Phone Number, Username, Gender, Email, Role, and Address. There is a placeholder for a profile picture and a 'Save' button at the bottom.

**Update Profile (General):** This page lets you change your own personal information in the system, like your name, contact details, and even your profile picture.

The screenshot shows a 'Update Profile' form titled 'Change Password'. It contains fields for Old Password, New Password, and Confirm New Password, along with a 'Save' button at the bottom.

**Update Profile (Change Password):** This is likely another section where you can change the password you use to log in.

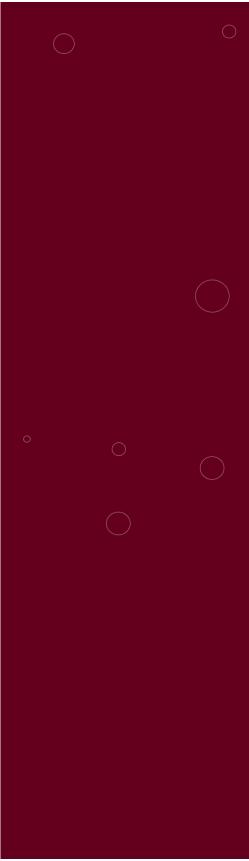
The screenshot shows the 'Category Settings' page. On the left is a sidebar with a logo and links: Dashboard, Manage Articles, Reports, Activity Logs, Account Management, Settings (with 'Update Profile'), and 'Category Settings' which is highlighted. The main area has a title 'Category Settings' and a subtitle 'Manage News Categories'. It includes a search bar, filter, export button, and a '+ Add Category' button. A table lists 10 categories with columns for ID, Category Name, and Actions. The categories are: Feature, Editorial, Sports, Breaking, World, Politics, Business, Agriculture, World, and Regional. At the bottom are navigation icons and a 'Show: 10 rows' button.

**Category Management Page:** This page is where you manage the different groups for news articles. You'll see a list of categories (like Sports, News), and there are buttons to change or remove them. You can also search for a category or add a new one. On the side, there's a fmenu to go to other settings.

The screenshot shows the 'Activity Logs' page. The sidebar includes a logo and links: Dashboard, Manage Articles, Reports, 'Activity Logs' which is highlighted, Account Management, Export Data, Settings (with 'Update Profile'), and 'Category Settings'. The main area has a title 'Activity Logs' with a subtitle 'See how the accounts interact with the system'. It features a search bar, filter, and export button. A table lists 10 log entries with columns for ID, Account Name, Role, Date, Time, Action, Description, and Actions. The log entries show various users (Balaji Nant, Meera Gonzalez, Karthik Subramanian, Mithra B, Jagadeesh Narayanan, Steve Rogers, Richard Hendricks, Monica Patel, Dinesh Kumar) performing actions like 'Logout' and 'Login' at specific dates and times. At the bottom are navigation icons and a 'Show: 10 rows' button.

**Activity Logs:** This page is like a history book of what everyone is doing in the system. It shows a list of actions, who did them (Account Name), what their role is (like Admin or User), when they did it (Date and Time), what exactly they did (Action and Description), and options to see more details or delete the log. You can search for specific activities and filter them. The side menu helps you go to other parts of the system.

## User



The image shows a registration form on a white background. To the right of the form is a vertical dark red bar with several white circles of varying sizes scattered across it. The form itself contains the following fields:

- First Name:** A text input field with placeholder text "Enter your first name here".
- Last Name:** A text input field with placeholder text "Enter your last name here".
- Username:** A text input field with placeholder text "Enter your username here".
- Email:** A text input field with placeholder text "eg. john@email.com".
- Password:** A text input field with placeholder text "Enter your Password here".
- Confirm Password:** A text input field with placeholder text "Confirm Password".
- Address:** A text input field with placeholder text "Enter your Address Here".
- Phone Number:** A dropdown menu showing "+971" and "543210987".
- Gender:** A dropdown menu with placeholder text "Select Gender".
- Date of Birth:** A date input field showing "2025-04-27".

At the bottom of the form, there is a link "Have an account? Sign In." and a prominent dark red button labeled "Register Now".

**Register Now Page:** This is the page where new people can create an account. It asks for your name, username, email, password (twice to make sure you type it right), address, phone number, gender (from a dropdown), and date of birth. There's a button at the bottom to finish signing up ("Register Now"). If you already have an account, there's a small link to "Sign In." The page has a simple layout with a white form on the left and a dark red background with circles on the right.

The screenshot shows the User Dashboard. On the left is a sidebar with a logo, user overview, my articles, explore, settings, and update profile. The main area has a title 'Dashboard' with placeholder text 'Lorem ipsum...'. It displays quick counts: My Submission (10), Pending Articles (3), Approved Articles (6), and Fake Articles (2). Below this is a table with columns 'Title', 'Status', and 'Actions'. The table lists several articles with their titles, statuses (Approved, Pending, Inactive, approved, fake), and actions (edit, view, more options). At the bottom left is a user profile for John Doe (flowforgest@gmail.com).

**User Dashboard page:** This is like your personal homepage in the system. At the top, it shows you quick counts of your articles: how many you've submitted, how many are waiting to be approved, how many got approved, and how many were marked as fake. Below that, there's a list of your articles with their titles and their current status (like Approved, Pending, Fake, or Inactive). There are also actions you can take on each article, like editing or viewing more options. On the left, there's a menu to see other things like all articles or your profile settings.

The screenshot shows the 'My Articles' list page. The sidebar is identical to the dashboard. The main area has a title 'My Articles' with placeholder text 'current ipsum...'. It includes a search bar ('Search for id, Title of Article') and filter buttons ('Card', 'Filter', '+ Create Article'). Below is a table with columns 'ID', 'Title', 'Source Article', 'Approval Status', and 'Action'. The table lists several articles with their IDs, titles, source articles (lorem ipsum placeholder text), approval statuses (Real, Fake, Pending), and actions (edit, view, more options). At the bottom are navigation links (1-20) and a 'Show: 10 news' button.

**My Articles list (view page):** This page shows a list of all the articles you've submitted. For each one, you can see its ID, title, where it came from (Source Article), its approval status (Real, Fake, Pending), and actions you can take (like edit or view). There's a search bar to find your

articles. You can also change how you view them (as cards instead of a list) and how many you see on the page. The menu on the left helps you go to other sections.

The screenshot shows a user interface titled "My Articles". On the left, there's a sidebar with a logo, "User Overview", "My Articles" (which is selected and highlighted in red), "Explore", "Settings", and "Update Profile". The main area is titled "My Articles" with the subtitle "Lorem ipsum". It features a search bar "Search for id, Title of Article" and buttons for "Table", "Filter", and "+ Create Article". Below the search bar is a grid of six news stories, each in its own card:

- Utot pinasok sa ref. tumigas** (Pending): "Utöt pinasok sa ref. tumigas" (Pending). "Utöt pinasok sa ref. tumigas" (Pending).
- How 150 Meetings by Amit Shah** (Fake): "How 150 Meetings by Amit Shah" (Fake). "How 150 Meetings by Amit Shah" (Fake).
- There's A Message In The Suspension S...** (Real): "There's A Message In The Suspension S..." (Real). "There's A Message In The Suspension S..." (Real).
- US Has Deepened Partnership with In...** (Pending): "US Has Deepened Partnership with In..." (Pending). "US Has Deepened Partnership with In..." (Pending).
- Delhi CM Arvind Kejriwal Responds to...** (Real): "Delhi CM Arvind Kejriwal Responds to..." (Real). "Delhi CM Arvind Kejriwal Responds to..." (Real).
- Utot pinasok sa ref. tumigas** (Fake): "Utot pinasok sa ref. tumigas" (Fake). "Utot pinasok sa ref. tumigas" (Fake).

At the bottom, there are navigation buttons for pages 1 through 20, a "Show:" dropdown set to "10 rows", and a "Logout" button.

**My Articles list (view cards):** Your stories in boxes. See title, a bit of text, author, date, and if it's Pending, Real, or Fake. Click "Read more" to read the whole thing. Search, change view, and make new stories at the top. Page through stories at the bottom. Menu on the left.

The screenshot shows a user interface titled "Explore Articles". On the left, there's a sidebar with a logo, "User Overview", "My Articles" (selected and highlighted in red), "Explore", "Settings", and "Update Profile". The main area is titled "Explore Articles" with the subtitle "Lorem ipsum". It features a search bar "Search for id, Title of Article" and buttons for "Table", "Filter", and "+ Create Article". Below the search bar is a grid of three news stories, each in its own card:

- Utot pinasok sa ref. tumigas** (Pending): "Utot pinasok sa ref. tumigas" (Pending). "Utot pinasok sa ref. tumigas" (Pending).
- There's A Message In The Suspension S...** (Real): "There's A Message In The Suspension S..." (Real). "There's A Message In The Suspension S..." (Real).
- Delhi CM Arvind Kejriwal Responds to ED, Calls Summ...** (Real): "Delhi CM Arvind Kejriwal Responds to ED, Calls Summ..." (Real). "Delhi CM Arvind Kejriwal Responds to ED, Calls Summ..." (Real). "Delhi CM Arvind Kejriwal Responds to ED, Calls Summ..." (Real). "Delhi CM Arvind Kejriwal Responds to ED, Calls Summ..." (Real). "Delhi CM Arvind Kejriwal Responds to ED, Calls Summ..." (Real). "Delhi CM Arvind Kejriwal Responds to ED, Calls Summ..." (Real).

At the bottom, there are navigation buttons for pages 1 through 20, a "Show:" dropdown set to "10 rows", and a "Logout" button.

**Explore Articles page:** See other people's stories in boxes. Each box shows the title, a bit of text, author, date, and if it's Pending or Real. Click "Read more" to read the whole thing. Search for stories at the top. Page through stories at the bottom. Menu on the left.

**Create Article**

← Back

Title

Category

Source URL

Content

Image   
Minimum 800px width recommended. Max 10MB each.

Submit Article

John Doe flowforgest@gmail.com

**Create Article page:** Write a new story. Has spots for the title, category (from a dropdown), where it came from (Source URL), and the story itself (Content with editing tools). You can also add an image. Click "Submit Article" when done. "Back" button at the top. Menu on the left.

**Edit Article**

← Back

Title

Category

Source URL

Content

Image Drag and drop an image, or   
Minimum 800px width recommended. Max 10MB each.

Update Article

John Doe flowforgest@gmail.com

**Edit Article Page:** Change a story you already wrote. Same spots as creating: title, category, source, and the story text with editing tools. You can also change the image. Click "Update Article" to save your changes. "Back" button at the top. Menu on the left.

**LOGO**


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[User Overview](#)
**My Articles**  
[Explore](#)
[Settings](#)
[Update Profile](#)

## View Articles

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### Sports

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#### Obiena finishes 5th in Shanghai Diamond League, Duplantis on top again

John Doe | Jan 13, 2025

Save →

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec ut lacus eros. Cras pretium rhoncus sagittis. Ut aliquet augue a mauris elementum, eu tempus risus luctus. Suspendisse eget hendrerit sapien. Morbi dignissim velit leo, in consequat lectus consequat a. Sed non facilisis lectus. Etiam efficitur ex vel mi faucibus egestas. Morbi ac erat non elit sollicitudin lobortis. Suspendisse convallis justo sit amet laoreet mattis. Suspendisse convallis neque ac mi malesuada iaculis. Maecenas placerat, felis non sodales suscipit, ligula sem efficitur urna, semper tristique mi turpis et nulla. Nullam consequat neque sed est rhoncus dapibus. Donec vestibulum lorem at est finibus, et placerat nisi tempor. Nullam rhoncus dapibus ante ut finibus. Curabitur lacinia porttitor urna, eget aliquam diam aliquam sed.

Nam at vulputate libero. Sed lacus mauris, vehicula ac eleifend vitae, tempor a erat. Vivamus ipsum lorem, vulputate id auctor quis, tempus in turpis. Pellentesque dolor ligula, iaculis at libero ac, tempor auctor ante. Etiam sodales purus non congue vehicula. Donec dapibus ex nec consectetur hendrerit. Donec dignissim justo nulla, et auctor erat aliquam et. Phasellus sit amet placerat lectus. Ut tincidunt porta augue ut gravida. In iaculis est ut sem auctor fringilla. Integer nec diam metus. Pellentesque sed vehicula urna. Donec dapibus tempor volutpat. Nullam accumsan sollicitudin tellus, non hendrerit arcu elementum a.

Aliquam vehicula nulla at interdum iaculis. Phasellus quis rutrum augue, sit amet imperdiet ex. Quisque vestibulum, dui in interdum congue, massa nibh rhoncus nunc, nec semper mi urna id orci. Morbi dignissim pharetra eleifend. Vestibulum posuere porttitor metus, vitae varius velit convallis at. Vivamus vitae hendrerit sem, ac scelerisque sapien. Mauris nisi tellus, eleifend vitae eros vitae, ultricies ornare purus. Donec eleifend, dolor vitae rhoncus malesuada, nulla arcu fermentum nisi, eu gravida erat massa ut ante. Aliquam vulputate elit neque, sed tincidunt risus tempor id. Aenean sed tortor sit amet dolor consectetur mattis in in dolor. Morbi rhoncus rhoncus dolor a feugiat. Duis semper nunc id erat bibendum, in sagittis neque pharetra. Donec eu hendrerit tellus. Nam sit amet lectus augue. Sed sit amet eleifend enim.

**Sources:**  
<https://www.rappler.com/sports/pole-vault-results-ej-obiena-shanghai-diamond-league-may-3-2025>

75%

Your article is Fake

**FLAGGED KEYWORDS**

- bias
- milagro
- dayaan
- fake
- lorem

**ADMIN STATEMENT**

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec ut lacus eros. Cras pretium rhoncus sagittis. Ut aliquet augue a mauris elementum, eu tempus risus luctus. Suspendisse eget hendrerit sapien. Morbi dignissim velit leo, in consequat lectus consequat a. Sed non facilisis lectus. Etiam efficitur ex vel mi faucibus egestas. Morbi ac erat non elit sollicitudin lobortis. Suspendisse convallis justo sit amet laoreet mattis. Suspendisse convallis neque ac mi malesuada iaculis. Maecenas placerat, felis non sodales suscipit, ligula sem efficitur urna, semper tristique mi turpis et nulla. Nullam consequat neque sed est rhoncus dapibus. Donec vestibulum lorem at est finibus, et placerat nisi tempor. Nullam rhoncus dapibus ante ut finibus. Curabitur lacinia porttitor urna, eget aliquam diam aliquam sed.

John Doe  
flowforgestd@gmail.com

**View Article page:** Read a full news story. Shows the title, author, date, and all the text. On the right, it gives a "Fake" score (75% in this case) and lists words that might be suspicious ("bias," "milagro," etc.). There's also a box with some computer-generated text ("ADMIN STATEMENT"). Menu on the left.

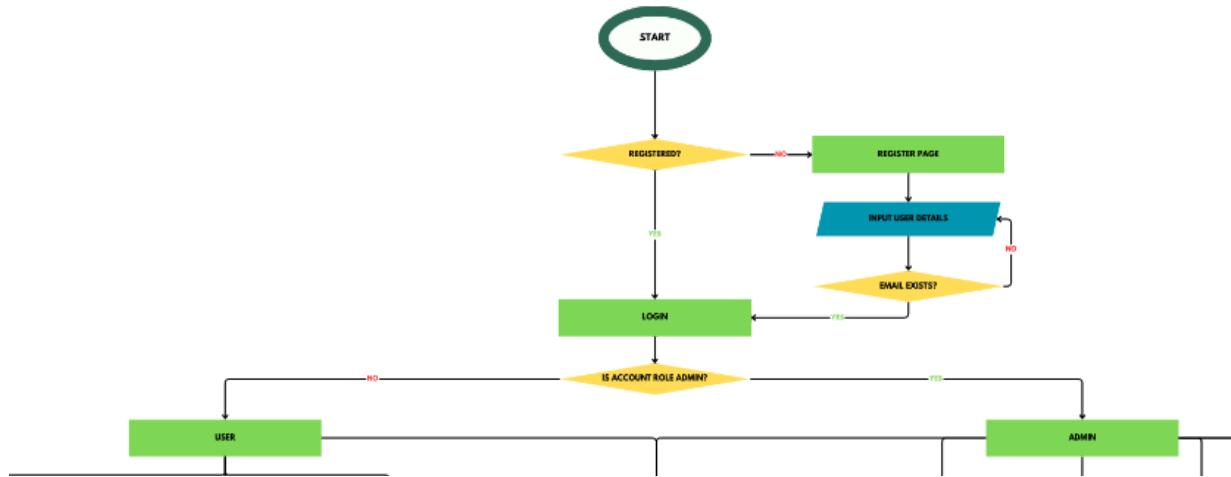
## SCOPE AND LIMITATION

The scope of the fake news detection system focuses on lexicon-based detection, wherein a predefined list of fake news keywords and phrases is stored in a database and used as a baseline for analyzing user-submitted articles through sentiment analysis. Additionally, the system incorporates clickbait detection and source credibility checks as additional criteria to further validate submitted content. However, advanced methods such as machine learning and model training are beyond the scope of this system. Hence, using machine learning libraries from other programming languages such as python's NumPy, pandas, TensorFlow, etc., will not be utilized.

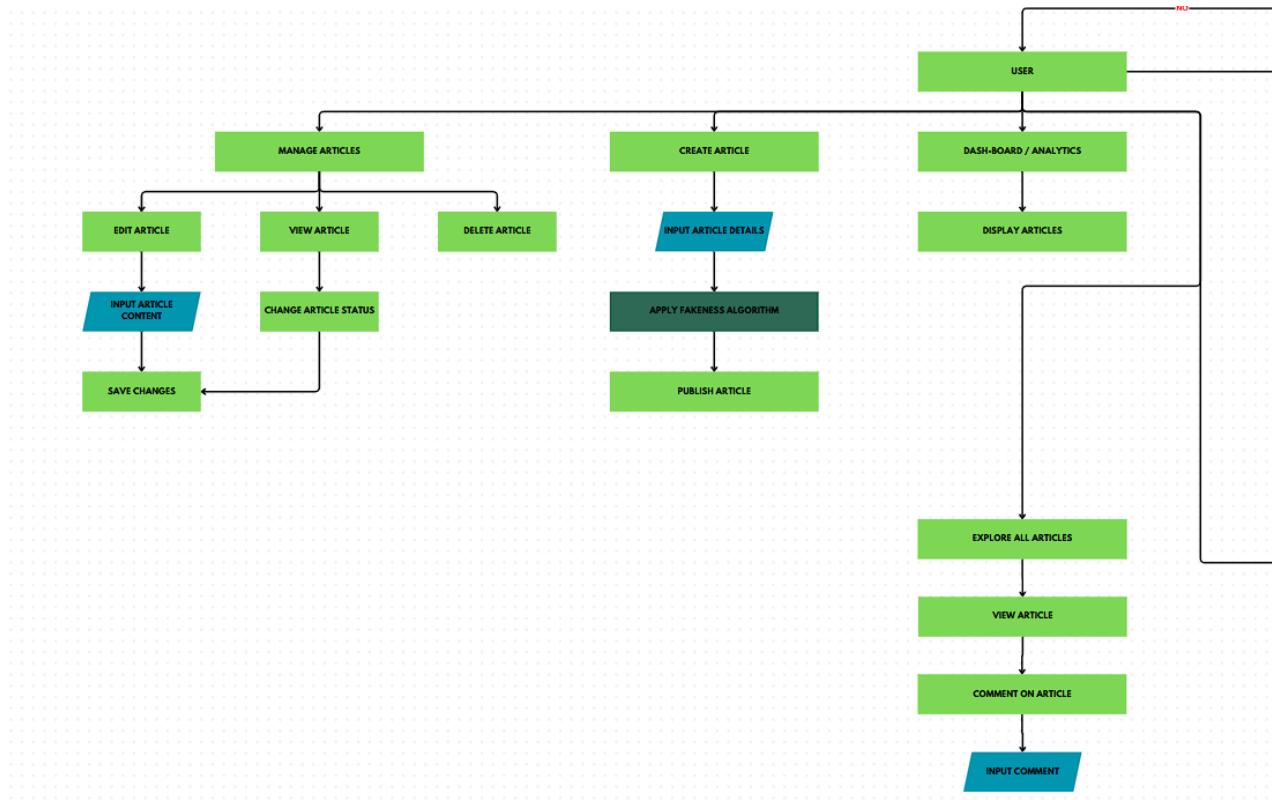
## FLOWCHART

### A. SYSTEM FLOWCHART

The following figure below shows the system flowchart of the fake news detection system:

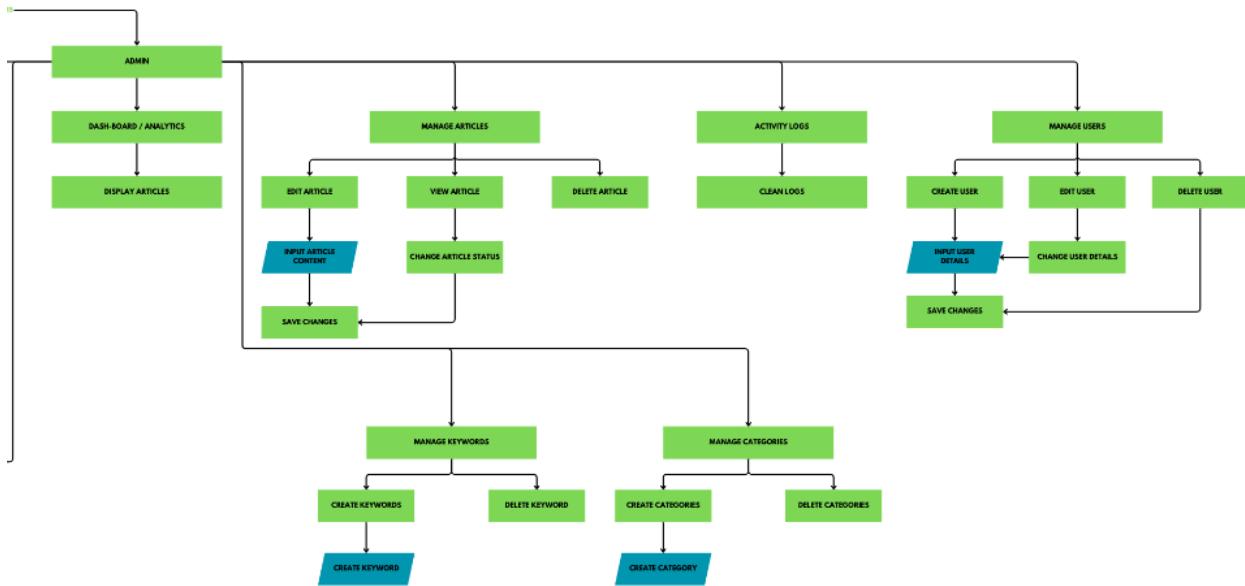


**Login and Register Flowchart:** It shows the flow of the Login and Register page such as when an account is login, the system will validate if the account is an admin or user. When the user isn't registered in the system, it will be prompted to register.



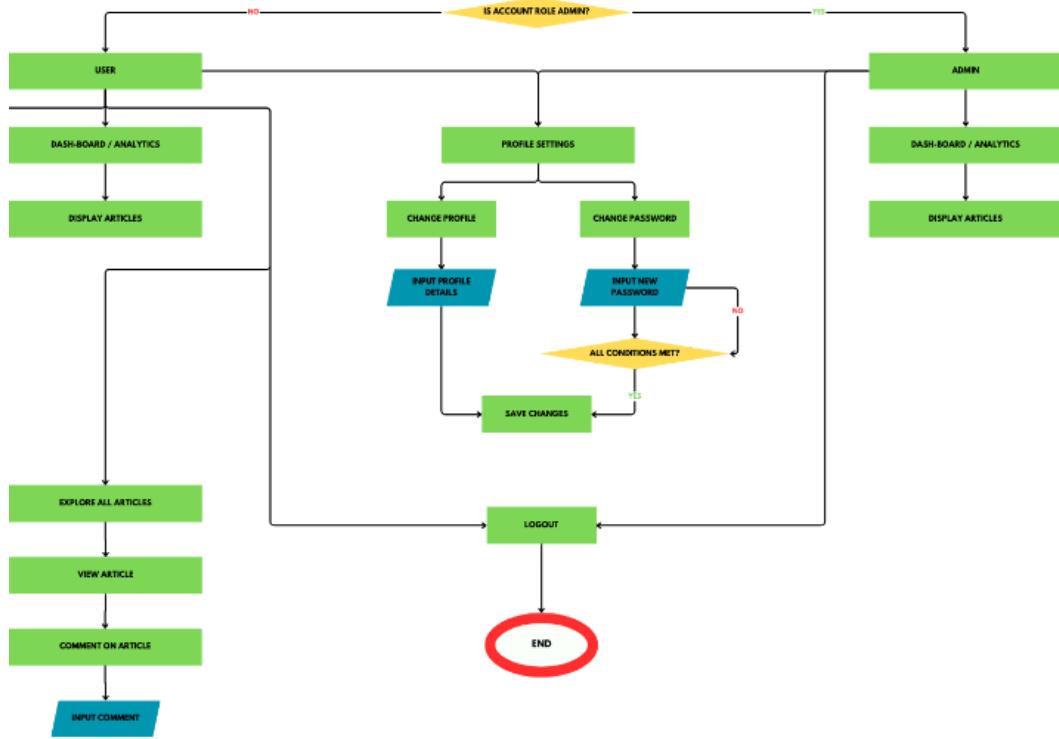
**User Flowchart:** The following are the actions that the users can do when they started a session:

- **Manage Articles:** Create, View and Delete Articles
- **Create Articles:** Users will fill up this form to be subjected to an automatic fake news detection algorithm.
- **Dashboard:** Display the analytics of a particular user
- **Explore:** View approved articles by admin. Users can comment on articles.



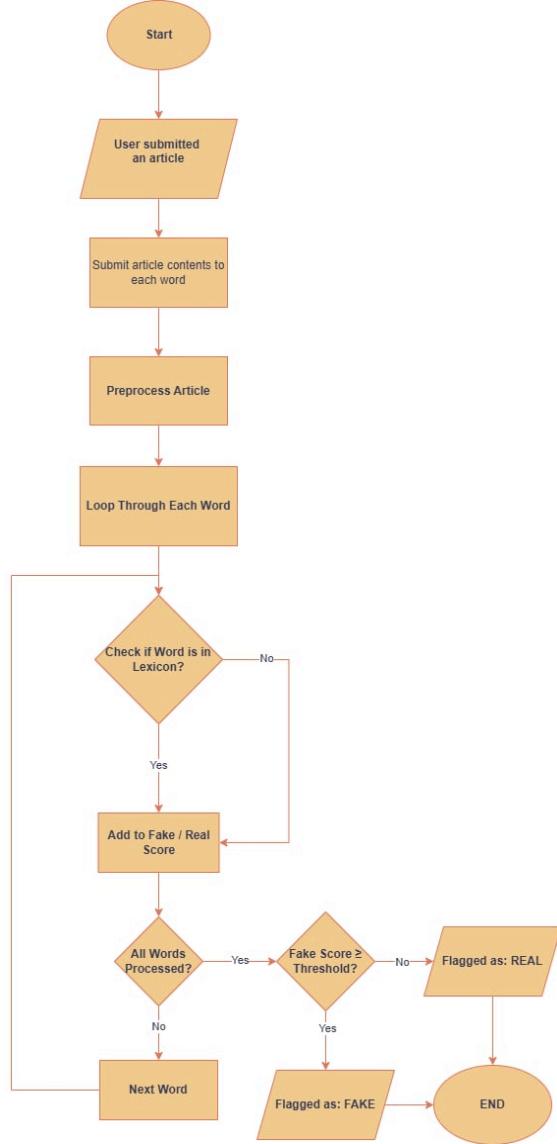
**Admin Flowchart:** The following are the actions that the admin can do when they started a session:

- **Dashboard:** Display the analytics of all submitted articles
- **Manage Articles:** Create, View and Delete Articles in addition with changing the status of the article to approved or fake.
- **Activity Logs:** See the activities of accounts registered on the system and can clean logs.
- **Manage Users:** Create, edit and delete users.
- **Category Management:** Add and delete Categories.
- **Keyword Management:** Add and delete fake news keywords.



**Setting Flowchart:** Admin and users both have the power to change their profile credentials and their passwords.

## B. FAKE NEWS ALGORITHM FLOWCHART



**General Flowchart Diagram of the Fake News Detection System**

The figure shown above is the general overview of the fake news detection system using lexicon-based analysis. The following is the process of the flowchart:

### Start

- The process begins.

## User Submitted an Article

- A user provides an article for analysis.

## Preprocess Article

- The article is preprocessed, likely involving:
- Removing punctuation
- Converting text to lowercase
- Tokenizing (splitting the article into individual words)

## Loop Through Each Word

- The program begins iterating through each word in the preprocessed article.

## Check if Word is in Lexicon?

- For each word, it checks whether the word exists in a predefined lexicon:
- A lexicon is a dictionary that might associate words with either fake or real news tendencies.

### If No (word not in lexicon):

- Skip that word and continue with the next one.

### If Yes (word is in lexicon):

- Proceed to the next step.

## Add to Fake / Real Score

- Based on the lexicon's classification of the word, increment a Fake Score or Real Score accordingly.

## All Words Processed?

- If not all words are processed, go back to loop through the next word.

- If all are processed, proceed to the scoring decision.

**Fake Score  $\geq$  Threshold?**

- After all words are scored:
- Check if the Fake Score exceeds a certain threshold.

**If No:**

- The article is flagged as REAL.

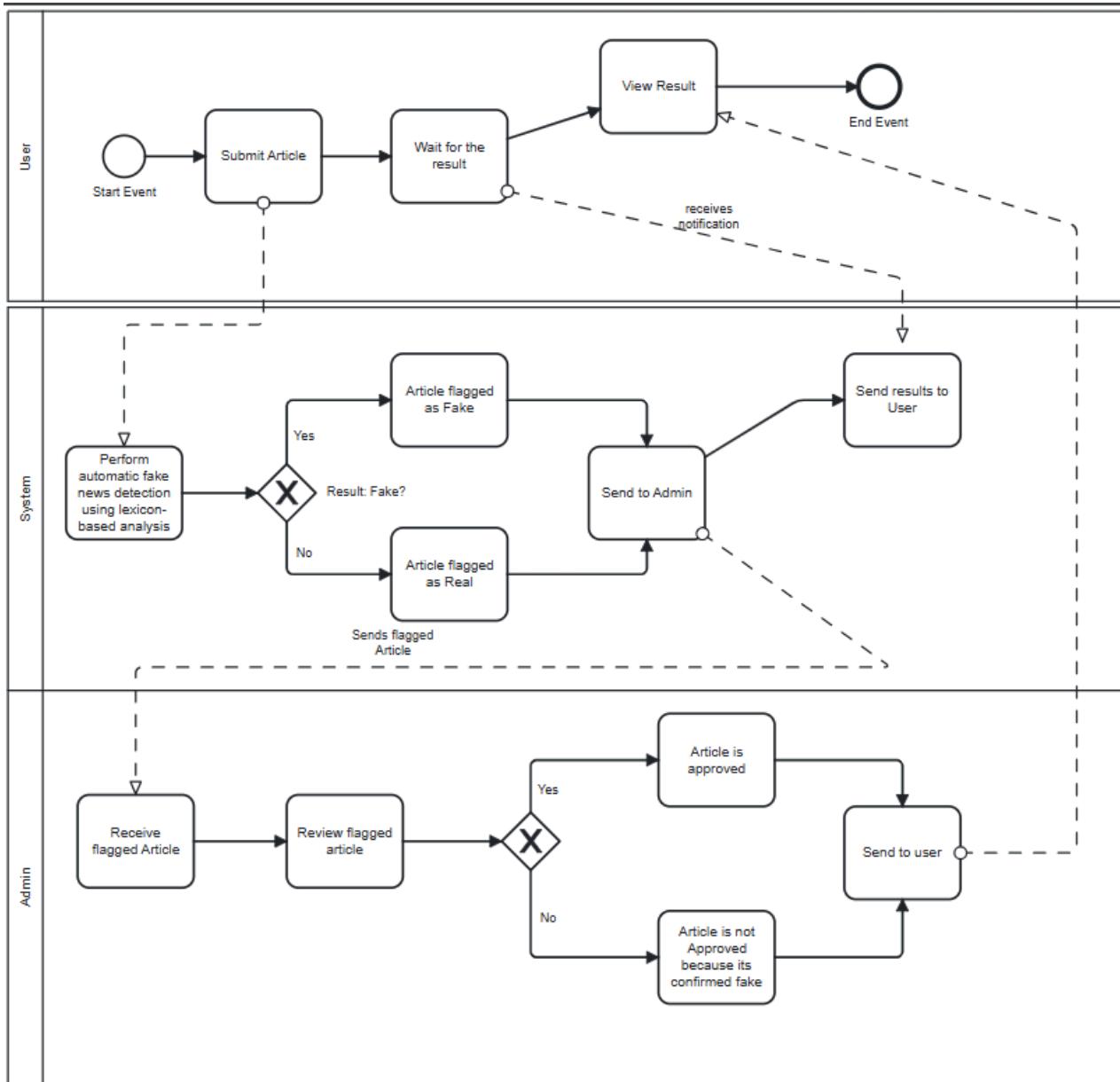
**If Yes:**

- The article is flagged as FAKE.

**End**

- The process concludes with the article classified as either FAKE or REAL

## BUSINESS PROCESS MODEL AND NOTATION



**BPMN diagram of the Fake News Detection System**

The above figure shows the Business Process Model and Notation diagram of the fake news detection system which explains the business logic of the fake news detection system. It has the following pools:

## User Pool

It represents the actions taken by the end-user who wants to verify the authenticity of a news article.

- **Start Event:** The user initiates the process.
- **Submit Article:** The user submits a news article to be analyzed.
- **Wait for the Result:** The user waits while the system processes the article.
- **View Result:** After the system and (possibly) the admin review the article, the user is notified and views the final decision.
- **End Event:** The process concludes for the user after viewing the result.

## System Pool

It contains the core automation logic of the system, which analyzes the submitted article.

- **Perform automatic fake news detection using lexicon-based analysis:** The system analyzes the article using keyword-based logic.
- **Decision: Result Fake?**
  - **Yes (Fake):** The system flags the article as fake and sends it to the Admin for further review.
  - **No (Real):** The article is flagged as real and the result is sent directly to the user.
- **Send to Admin:** If the article is flagged as fake, it is passed to the Admin for confirmation.
- **Send results to User:** Once a result (real or reviewed fake) is finalized, it is communicated to the user.

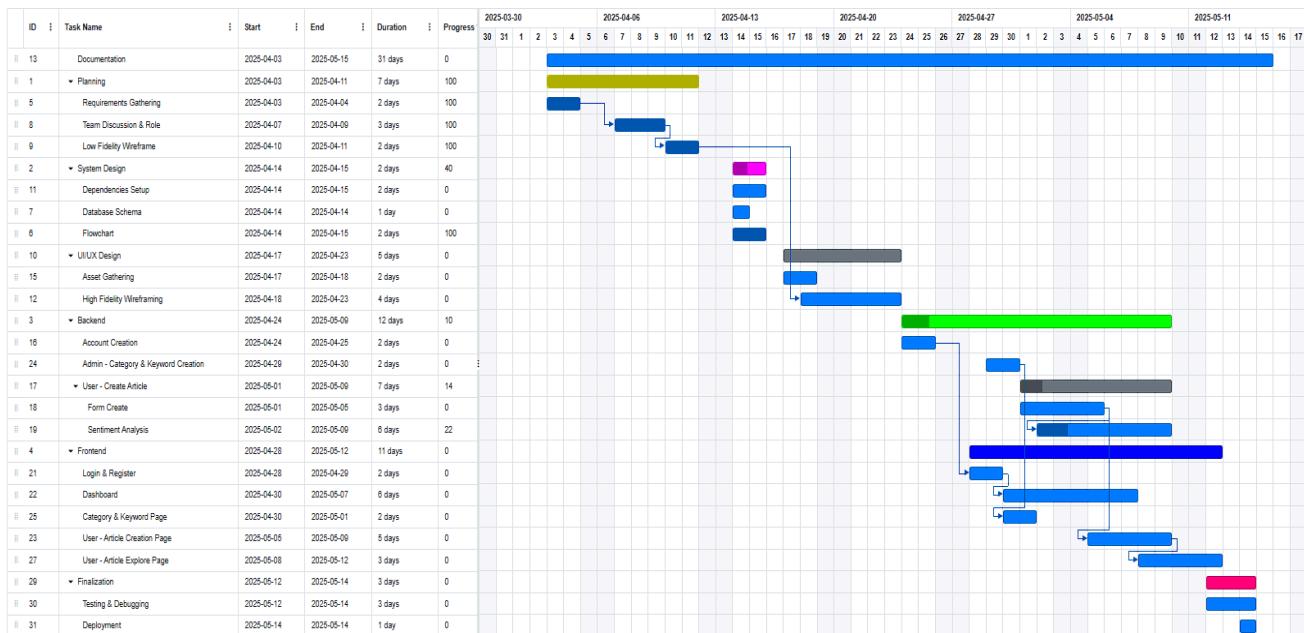
## Admin Pool

The Admin's role is to verify whether the articles flagged as fake by the system are truly fake or a false positive.

- **Receive Flagged Article:** Admin receives the article identified by the system as fake.
- **Review Flagged Article:** The Admin manually evaluates the content.
- **Decision: Is Article Approved?**

- **Yes:** The article is considered accurate, and the result is sent to the user as **approved**.
- **No:** The article is confirmed to be fake, and the result is sent to the user stating **not approved**

## GANTT CHART



**Gantt Chart for Tutuban**

The Gantt Chart for the fake news detection system was divided into many factors such as the planning, wireframing, backend, frontend, documentation etc. The following are the modules established for the creation of the Gantt chart.

### Module 1: Documentation (Apr 3 – May 15)

- This runs in parallel with the other modules. It doesn't have any dependencies.

### Module 2: Planning (Apr 3 – Apr 11)

Tasks	Dependencies
Requirements Gathering (Apr 3–4)	N/A

Team Discussion & Role Definition (Apr 7–9)	Requirements Gathering
Low-Fidelity Wireframes (Apr 10–11)	Team Discussion

### Module 3: System Design (Apr 14 – Apr 15)

Tasks	Dependencies
Dependencies Setup (Apr 14–15)	N/A
Database Schema (Apr 14)	N/A
Flowchart (Apr 15)	N/A

### Module 4: UI/UX Design (Apr 17 – Apr 23)

Tasks	Dependencies
Asset Gathering (Apr 17–18)	N/A
High-Fidelity Wireframing (Apr 18–23)	Low-Fidelity Wireframes Asset Gathering

### Module 5: Backend Development (Apr 24 – May 9)

Tasks	Dependencies
Account Creation (Apr 24–25)	N/A
Admin: Category & Keyword Management (Apr 29–30)	N/A
Article Submission Form (May 1–3)	N/A
User Article Creation Logic (May 1–9)	N/A
Sentiment-Analysis Module (May 2–9)	User Article Creation Logic

### Module 6: Frontend Development (Apr 28 – May 12)

Tasks	Dependencies
Login & Registration Screens (Apr 28–29)	Account Creation
Dashboard Views (Apr 30–May 7)	Login & Registration
Category & Keyword Pages (Apr 30–May 1)	Admin: Category & Keyword Management
Article-Creation Page (May 5–9)	Article Submission Form
Article-Explore/Browse Page (May 8–12)	Article-Creation Page

### Module 7: Finalization (May 12 – May 14)

Tasks	Dependencies
Testing & Debugging (May 12–14)	Backend and Frontend Development
Deployment (May 14)	Testing & Debugging

## GAP ANALYSIS

### Current State

- Fake news detection is done manually by the admins.
- Fact-checkers read the article, analyze content and context, and verify facts with reliable sources.
- The process is time-consuming, labor-intensive, and not scalable.
- Limited ability to process large volumes of user-submitted content in real time.

### Desired State

- A system that can automatically detect fake news.
- Uses lexicon-based analysis to detect emotionally charged or misleading language.
- Capable of real-time evaluation of user-submitted articles.
- Provides immediate credibility scores or warnings to users.
- Scalable to handle hundreds or thousands of submissions daily.

### Gap

The current approach to detecting fake news primarily relies on manual fact-checking. This method involves the admins reading and analyzing the content and context of news articles to verify their accuracy. While this ensures thoughtful judgment and contextual awareness, it is often slow, labor-intensive, and prone to human error or bias. The process is not scalable, especially in an age where thousands of articles and social media posts are generated every hour. Manual methods lack consistency, as different fact-checkers may interpret or prioritize evidence differently.

On the other hand, an ideal system would utilize automated technologies to detect fake news in real time. Lexicon-based analysis, for instance, can identify patterns in language commonly found in misleading content, such as emotionally charged phrases, exaggerations, or manipulation tactics. Currently, the absence of such technologies in most fact-checking workflows results in significant inefficiencies. The gap lies in the system's inability to process

large volumes of data quickly, consistently, and without subjective interference. This highlights the need for a shift from manual verification to intelligent, automated solutions.

## Action Plan

To solve this gap, the first step is to research and compile linguistic indicators and patterns associated with fake news. These may include the use of sensational language, lack of evidence-based claims, or emotionally manipulative phrases. Once these indicators are identified, lexicon-based techniques can be developed. This model will serve as the core engine for analyzing user-submitted articles.

Updates and improvements should be implemented based on real-world use, user feedback, and evolving trends in misinformation. With these steps, the transition from manual to automated fake news detection can become a reality, significantly enhancing speed, consistency, and public trust in news verification.

## DATABASE DESIGN (ERD & SCHEMA)

### A. SCHEMA

The following are the tables utilized for the fake news detection system:

**Articles Table:** This stores the user submitted articles.

Attribute Name	Data Type & Constraints
article_id	INT(11) NOT NULL AUTO_INCREMENT
user_id	INT(11) NOT NULL
title	VARCHAR(255) NOT NULL
content	TEXT NOT NULL
source_url	VARCHAR(255) DEFAULT NULL

<b>category_id</b>	INT(11) NOT NULL
<b>status</b>	TINYINT(4) DEFAULT 1
<b>date_published</b>	DATE NOT NULL
<b>created_at</b>	TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP
<b>percentage</b>	DECIMAL(5,2) UNSIGNED DEFAULT 0.00 CHECK (percentage >= 0.00 AND percentage <= 100.00)
<b>f_words</b>	TEXT DEFAULT NULL
<b>f_score</b>	INT(11) DEFAULT NULL
<b>total_words</b>	INT(11) DEFAULT NULL

**Categories Table:** This stores the categories added by admin.

Attribute Name	Data Type & Constraints
<b>category_id</b>	INT(11) NOT NULL AUTO_INCREMENT
<b>category_name</b>	VARCHAR(100) NOT NULL
<b>created_at</b>	TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP

**Comments Table:** This stores all the comments posted by the users.

Attribute Name	Data Type & Constraints
<b>comment_id</b>	INT(11) NOT NULL AUTO_INCREMENT
<b>article_id</b>	INT(11) NOT NULL
<b>user_id</b>	INT(11) NOT NULL

<b>comment</b>	TEXT NOT NULL
<b>created_at</b>	TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP

**Fake News Keyword Table:** This stores all the keywords associated with fake news.

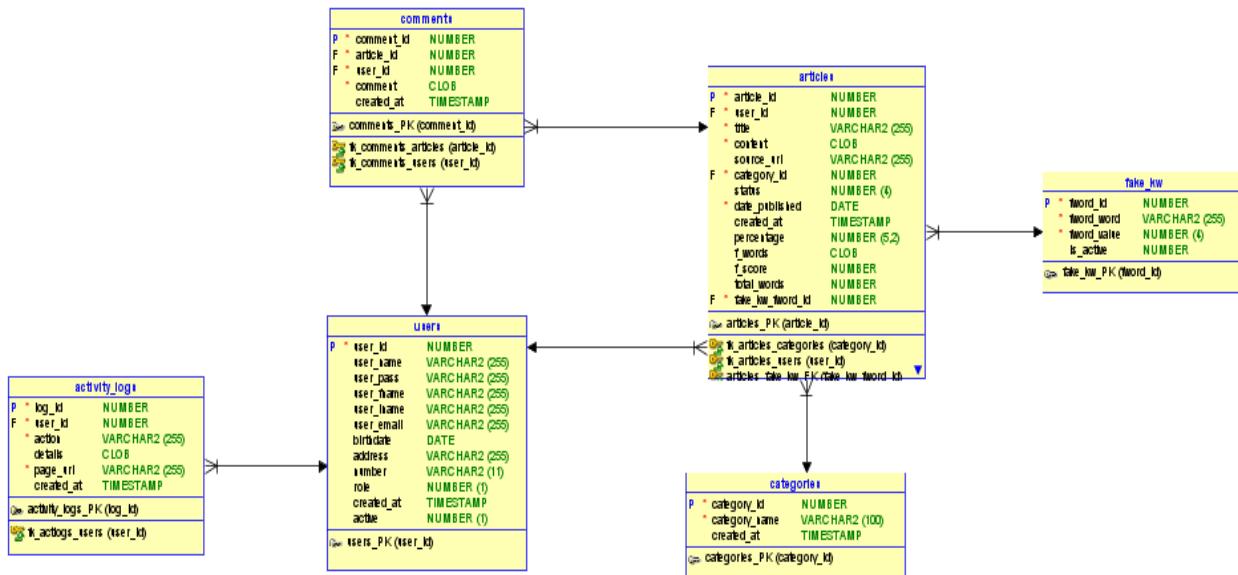
Attribute Name	Data Type & Constraints
<b>fword_id</b>	INT(11) NOT NULL AUTO_INCREMENT
<b>fword_word</b>	VARCHAR(255) NOT NULL
<b>fword_value</b>	TINYINT(4) NOT NULL CHECK (fword_value BETWEEN 1 AND 5)
<b>is_active</b>	INT(11) DEFAULT 1

**Users Table:** This stores all the accounts registered in the system.

Attribute Name	Data Type & Constraints
<b>user_id</b>	INT(11) NOT NULL AUTO_INCREMENT
<b>user_name</b>	VARCHAR(255) DEFAULT NULL
<b>user_pass</b>	VARCHAR(255) DEFAULT NULL
<b>user_fname</b>	VARCHAR(255) DEFAULT NULL
<b>user_lname</b>	VARCHAR(255) DEFAULT NULL
<b>user_email</b>	VARCHAR(255) DEFAULT NULL
<b>birthdate</b>	DATE DEFAULT NULL
<b>address</b>	VARCHAR(255) DEFAULT NULL
<b>number</b>	VARCHAR(11) DEFAULT NULL

role	TINYINT(1) DEFAULT NULL
created_at	TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP
active	TINYINT(1) DEFAULT 1

## B. ENTITY RELATIONSHIP DIAGRAM



Entity Relationship Diagram for Tutuban

The figure above shows the Entity Relationship Diagram of Tutuban. Here are the relationship descriptions of every entities of this database:

### 1. Users ↔ Activity Logs

- **Each User** may generate one or more Activity Log entries.
- **Each Activity Log** must be generated by one and only one User.

### 2. Users ↔ Articles

- **Each User** may write one or more Articles.

- **Each Article** must be authored by one and only one User.

### **3. Categories ↔ Articles**

- **Each Category** may classify one or more Articles.
- **Each Article** must belong to one and only one Category.

### **4. Articles ↔ Comments**

- **Each Article** may receive one or more Comments.
- **Each Comment** must be attached to one and only one Article.

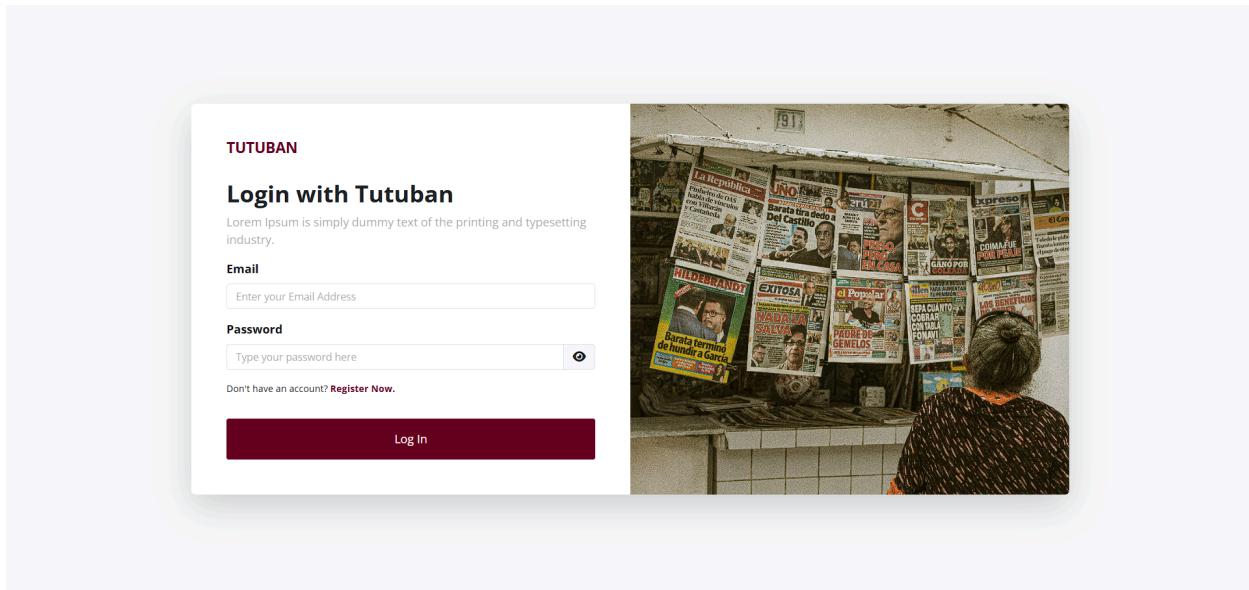
### **5. Users ↔ Comments**

- **Each User** may leave one or more Comments.
- Each Comment** must be written by one and only one User.

### **6. Fake\_KW ↔ Articles**

- **Each Fake News Keyword** entry may be referenced by one or more Articles.
- **Each Article** may reference one or only one fake news keyword entry.

## SCREENSHOTS & FEATURES

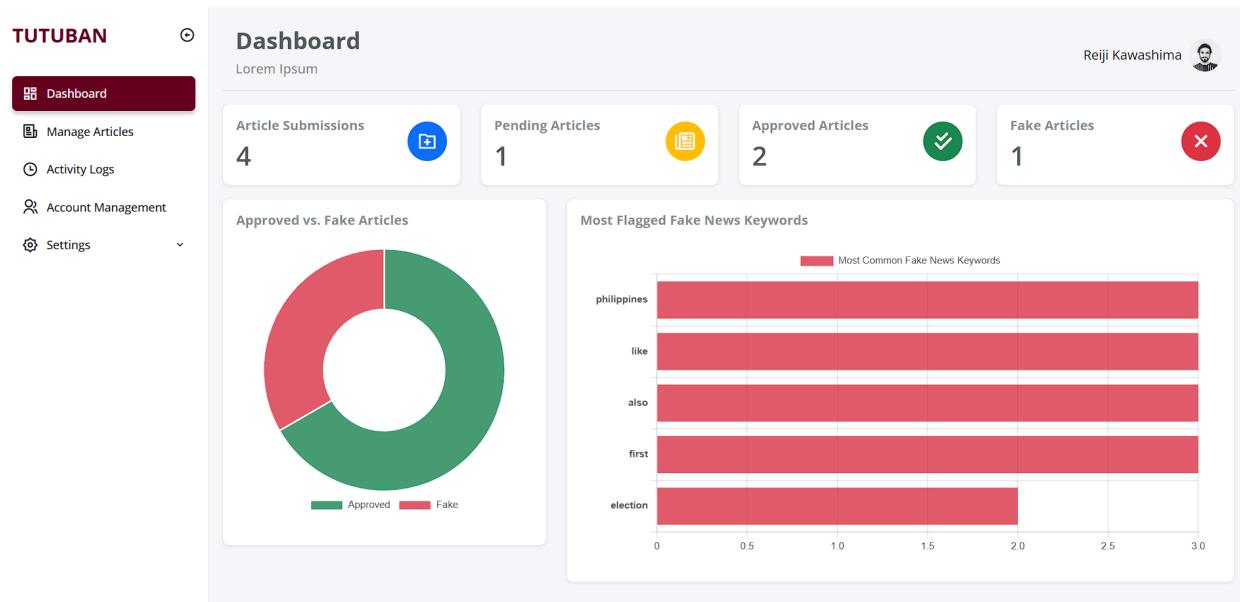


**Login Page:** This will let the users access the system. It has a backend logic to determine if the account is an admin or user.

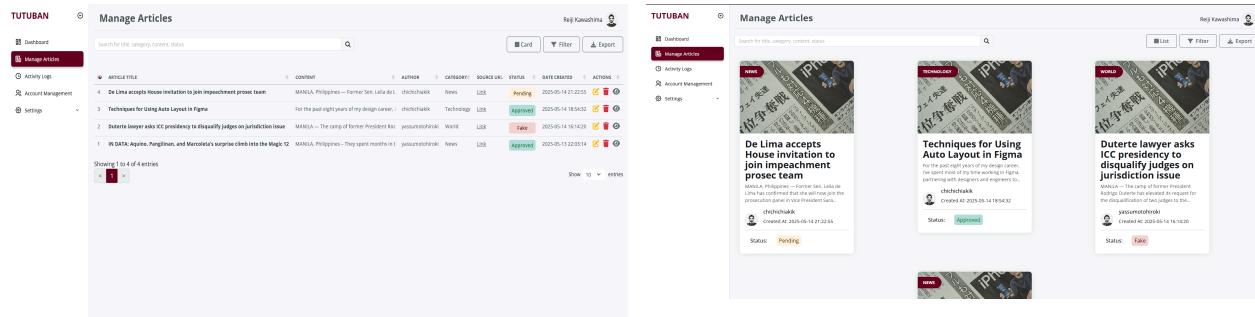
A redacted screenshot of the 'Register with Tutuban' page. It includes fields for First Name, Last Name, Username, Email, Password, Confirm Password, Date of Birth, Address, and Phone Number, each with validation error messages indicating they are required.

**Register Page:** This will let the users register their credentials to access the system. It has a jquery validation plugin for form handling. This also makes the registered user as type ‘user’.

## ADMIN



**Admin Dashboard:** This page features the graphical reports of the submitted articles. Four widgets show the count for article submissions, pending articles, approved and fake articles. It also shows the doughnut graph for approved vs. fake articles and the most flagged keywords.



**Manage Articles:** This page features a datatable for submitted articles. Admins will have a choice for card or list (table) view. A search bar is included for searching articles. It also has the ability to export the article data via excel, csv or print format. It also has an advanced filtering for categories and its status.

This article is **Fake** (23%)

Total Words Analyzed: 509

Fake News Score: 49

Flagged Keywords: **Fake**, **Auto**, **Layout**, **Figma**, **Design**, **UX**, **UI**, **Prototyping**, **Prototype**, **Workflow**

Approval Status: **Approved**

Change Article Status: **Pending**, **Approve**, **Flag as fake**

Article has been approved and published.

Edit Article

Source: medium.com

**View Article Details:** This page features the resulting percentage based on the algorithm of the automatic fake news detection. It also highlights the flagged keywords that were analyzed in our fake keywords table in the database. The admin has the power to change the article status to pending, approved or flagged as fake.

LOG ID	TIMESTAMP	EDITED BY	ACTION	DETAILS	PAGE
52	2025-05-15 23:10:13	reijikawashima_95	CREATE	Admin created a new category	http://localhost/CCS06FProject-01-frontend/frontend/page_admin_categories.php
51	2025-05-15 23:06:59	reijikawashima_95	CREATE	Admin create new Account	http://localhost/CCS06FProject-01-frontend/frontend/page_admin_categories.php
50	2025-05-15 23:01:15	reijikawashima_95	CREATE	Admin create new Account	http://localhost/CCS06FProject-01-frontend/frontend/page_admin_categories.php
49	2025-05-15 23:01:10	reijikawashima_95	CREATE	Admin create new Account	http://localhost/CCS06FProject-01-frontend/frontend/page_admin_categories.php
48	2025-05-15 23:01:05	reijikawashima_95	CREATE	Admin create new Account	http://localhost/CCS06FProject-01-frontend/frontend/page_admin_categories.php

Show 1 to 5 of 5 entries

< 1 >

Filter Export Clean Logs

Delete past 10 days  
Delete past 30 days  
Delete past 90 days

Show 10 entries

**Activity Logs:** This page contains all the activities that were made by accounts registered in the system. It also has a feature to clean logs to delete data past a particular number of days. It also

has an advanced filter for timestamp and action columns. Exporting data is also a feature on this page.

The screenshot shows a table of account management. The columns are:

ID	ACCOUNT NAME	USERNAME	BIRTH DATE	ADDRESS	EMAIL	CONTACT NUMBER	ROLE	ACTIVE	ACTIONS
9	Saori Hayami	yumeosaori	1992-01-01	Tokyo	hayamisaori@test.com	9170003333	User	Active	
8	Juan Della Cruz	juandelacruz_1	1999-01-01	Tarlac	juandelacruz@test.com	09110001111	User	Active	
7	John Doe	johndoe00001	1999-04-01	Pampanga	john.doe@test.com	09170001111	User	Active	
3	Hiroki Yasumoto	yassumotohiroki	1977-03-16	Kanagawa, Japan	hirokiyasumoto@test.com	9171035201	User	Active	
2	Reiji Kawashima	reijikawashima_95	2015-05-12	Kagoshima, Japan	reijikawashima@test.com	09170000000	Admin	Active	
1	Chiaki Kobayashi	chichichiakii	1994-06-04	Kanagawa, Japan	chiaki.kobayashi@test.com	91700000000	User	Active	

Showing 1 to 6 of 6 entries

The screenshot shows a modal dialog for creating a new account. The fields are:

- User Name: Enter your username
- Password: Enter your password here
- Confirm Password: Confirm password
- Email: example@gmail.com
- Birthdate: mmddyyyy
- Address: Enter your Address
- Phone Number: 09xxxxxxxx
- Role: User

**Create User**

**Account Management:** This page handles the accounts of all the registered users in the system. It has advanced filtering, export data and the ability for administrators to create an account. They also have an ability to edit some of the credentials of the users as well as delete.

**Edit Account**

First Name	Birthdate
Saori	01/01/1992
Last Name	Phone Number
Hayami	9170003333
Username	Address
yumekosaoari	Tokyo
Email	
hayamisaori@test.com	
Role	Status
User	Active

**Cancel** **Update Account**

**Edit Account:** Admins have the ability to update the credentials of registered accounts on this page.

**Category Setting**

ID	CATEGORY NAME	CREATED AT	ACTION
8	Politics	2025-05-15 23:10:13	
7	Entertainment	2025-05-14 18:40:51	
6	Business	2025-05-14 18:40:45	
5	Technology	2025-05-14 18:40:35	
4	World	2025-05-13 21:30:52	
3	Feature	2025-05-13 21:30:47	
2	Sports	2025-05-13 21:30:40	
1	News	2025-05-13 21:29:43	

Showing 1 to 8 of 8 entries

< 1 >

Show 10 entries

**Category Setting (Management):** This page allows administrators to add and delete categories.

**TUTUBAN**

- Dashboard
- Manage Articles
- Activity Logs
- Account Management
- Settings**
  - Profile Setting
  - Change Password
  - Category Management
  - Keywords Management**

## Keyword Management

Search for Keyword

+ Add Keyword

ID	WORD	VALUE	ACTION
5667	bias	2	
5658	zombies	1	
5657	york	1	
5656	wisconsin	1	
5655	western	1	
5654	water	1	
5653	veterans	1	
5652	veteran	1	
5651	vatican	1	
5650	variants	1	

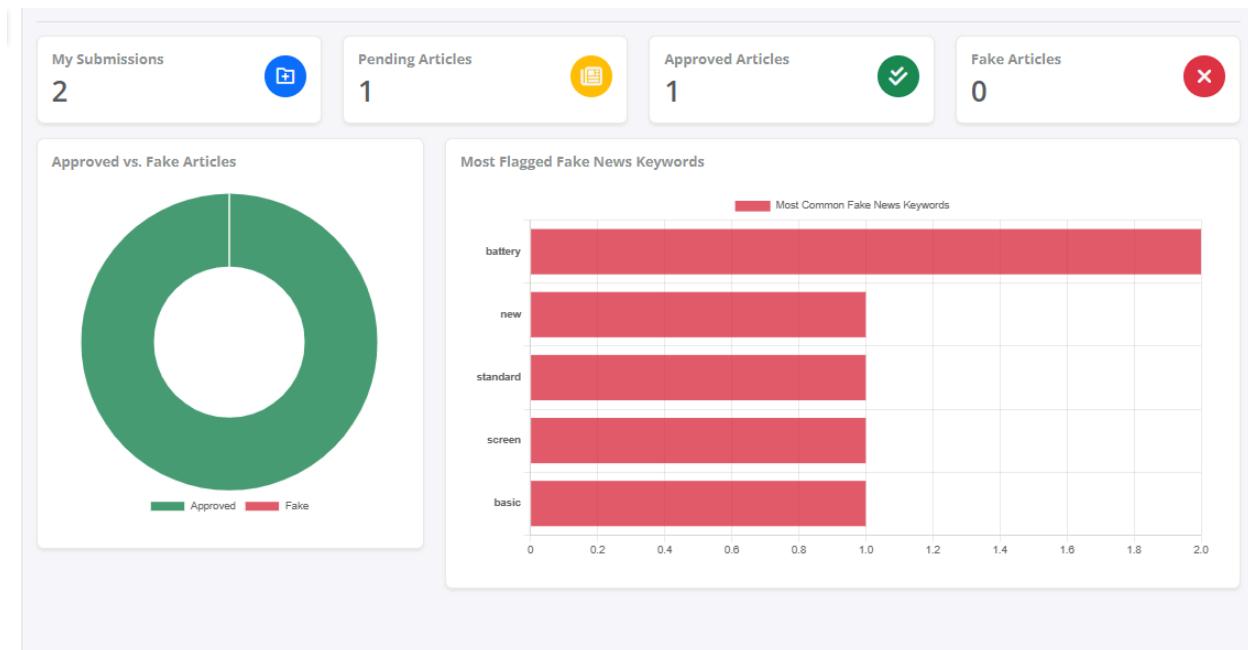
Showing 1 to 10 of 342 entries

< **1** 2 3 4 5 ... 35 >

Show 10 entries

**Keyword Management:** This page is also similar to the category management page but for fake news keywords.

## USERS



**User Dashboard:** This page provides an overview for users on their submitted articles count.

**TUTUBAN** ☺

**Create Article**

User Overview

**Create Article**

My Articles

Explore

Settings

Title  
Enter your Title Here

Category  
-- Select Category --

Source URL  
Enter your Source URL here

Date Published  
mm/dd/yyyy

Image

Content  
Enter your content here

Submit Article

**Create/Edit Article:** This page features a form in which the user will submit their article.

**TUTUBAN** ☺

**My Articles**

User Overview

Create Article

My Articles

Explore

Settings

Search for title, category, content, status

Card Filter

ID	ARTICLE TITLE	CONTENT	AUTHOR	CATEGORY	SOURCE URL	STATUS	DATE CREATED	ACTIONS
4	De Lima accepts House invitation to join impeachment prossec team	MANILA, Philippines — For	chichichikik	News	Link	Pending	2025-05-14 21:22:55	
3	Techniques for Using Auto Layout in Figma	For the past eight years of	chichichikik	Technology	Link	Approved	2025-05-14 16:54:32	

Showing 1 to 2 of 2 entries

< 1 >

Show 10 entries

The screenshot shows the 'My Articles' section of the TUTUBAN platform. It displays two articles from the user Chiaki Kobayashi:

- De Lima accepts House invitation to join impeachment probe team**: This article is marked as 'Pending'. It was created on May 14, 2025, at 21:22:55. The snippet reads: "MANILA, Philippines—Former Sen. Leila de Lima confirmed that she will now join the prosecution panel in Vice President Sara..."
- Techniques for Using Auto Layout in Figma**: This article is marked as 'Approved'. It was created on May 14, 2025, at 18:54:32. The snippet reads: "For the past eight years of my design career, I've spent most of my time working in Figma, partnering with designers and engineers to create components and establish patterns that help push the product forward and minor or elevate what's shown in production."

**My Articles:** This page shows the submitted articles of a particular user. It has a card and list view for user preferences and advanced filter settings.

The screenshot shows the 'View Article' page for the article 'Techniques for Using Auto Layout in Figma' by Chiaki Kobayashi. The page includes the following details:

- Article Summary:** Techniques for Using Auto Layout in Figma, written by Chiaki Kobayashi on May 14, 2025, in the Technology category.
- Statistics:**
  - This article is 23% fake.
  - Total Words Analyzed: 509
  - Fake News Score: 49
  - Flagged Keywords: AI, Figma, Auto Layout, Design System, UI/UX, Prototyping, Mockups, Components, Reusability, Scalability, Robustness.
- Approval Status:** Approved.
- Content Preview:** The article discusses the use of auto layout in Figma, mentioning its benefits for building responsive and flexible components. It also covers how auto layout interacts with other Figma features like constraints and libraries.
- Source:** medium.com

**View Article Statistics:** Users can view the statistics of their submitted articles. It is similar to the view article statistics on the admin side with an exception of users not having the access to change the status of their articles.

**Explore Article**

Search for title, category, comment, status

Technology

**Techniques for Using Auto Layout in Figma**  
By chichichiakik | 2025-05-14 18:54:32

For the past eight years of my design career, I've spent most of my time working in Figma, partnering with designers and engineers to create components and establish patterns that help push the product forward and move or elevate what's shown in production. Within this work, many moments feel incredibly rewarding and satisfying, from hitting publish on the...

News

**IN DATA: Aquino, Pangilinan, and Marcoleta's surprise climb into the Magic 12**  
By yassumotohiroki | 2025-05-13 22:03:14

MANILA, Philippines — They spent months in the survey shadows — then stole the spotlight on election day. Bam Aquino, Kiko Pangilinan, and Rodante Marcoleta, once written off as longshots, broke into the Magic 12 with a late-game push powered by crucial provincial votes the polls didn't see coming. As of May 13, 6:42 am, with 80.34% of election returns processed, the...

Show 10 entries

**Explore Articles:** Users can see all the approved articles on this page. It has a search bar for searching the articles and filtering of articles based on the category on the right panel.

**Explore Article**

News

**IN DATA: Aquino, Pangilinan, and Marcoleta's surprise climb into the Magic 12**  
By yassumotohiroki | May 13, 2025

chichichiakik  
Add a comment...  
**Comment**

Tangina mo teh dinogshow mo nananaman

yassumotohiroki  
5/14/2025, 5:00:48 PM  
Salamat sa suporta Chiaki.  
Ruby-chan?  
Hai!  
Nani ga suki?  
Chokominto yori mo a-na-ta  
Ayumu-chan?  
Hai!  
Nani ga suki?  
Sutoroberri fureibaayori mo a-na-ta  
Shiki-chan?  
Hai!  
Nani ga suki?

**View Approved Article Details:** It has the same UI design with the article statistics in exception of the comment section. Here, users can now comment on each other articles.

## GENERAL SETTINGS

The screenshot shows the 'Profile Setting' section of the 'Settings' page. At the top, there's a placeholder for a user profile picture. Below it, the user's name, 'Kobayashi, Chiaki', is displayed, followed by a block of text in a language that uses a mix of Latin and non-Latin characters. Underneath this, there are input fields for 'First Name' (Chiaki), 'Last Name' (Kobayashi), 'Username' (chichichiakik), and 'Email' (chiakikobayashi@test.com). There are also fields for 'Birth Date' (06/04/1994) and 'Address' (Kanagawa, Japan), along with a 'Contact Number' field containing the number 917000000. A large red 'Save Changes' button is located at the bottom of the form.

**Profile Setting:** This page let the user change some of their credentials.

The screenshot shows the 'Change Password' section of the 'Settings' page. It features a placeholder for a user profile picture. Below it, the user's name, 'Kobayashi, Chiaki', is displayed with a block of text in a mixed-language script. The page includes three input fields for password management: 'Old Password', 'New Password', and 'Confirm New Password'. Each field has a placeholder text: 'Enter your old password here', 'Enter your new password here', and 'Confirm your new password here' respectively. A large red 'Save Changes' button is positioned at the bottom of the form.

**Change Password:** This page lets the user change their password.

## **CONCLUSION**

The successful implementation of lexicon-based analysis marks a significant step in equipping the system with an automated method for identifying potentially unreliable news content. By examining the specific vocabulary used within articles, the system gains a foundational ability to flag text exhibiting linguistic characteristics often associated with misinformation. This provides a valuable starting point for content moderation and ensuring information integrity.

## **RECOMMENDATION**

To further advance the system's capabilities in detecting increasingly complex and nuanced forms of fake news, it is strongly recommended that future research endeavors explore and integrate alternative algorithmic approaches. Specifically, investigating machine learning models, which can learn intricate patterns from vast datasets, and contextual analysis techniques, which consider the surrounding information and relationships between words, hold considerable promise. These approaches, while outside the scope of the current project, could significantly enhance the accuracy and robustness of automated fake news detection, complementing the foundational lexicon-based analysis already implemented. Encouraging external researchers to investigate these avenues would contribute valuable insights and potential enhancements to the system's overall effectiveness.

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