

## BLACK-BOX TESTING

### 1. Signup

#### Test Case Description

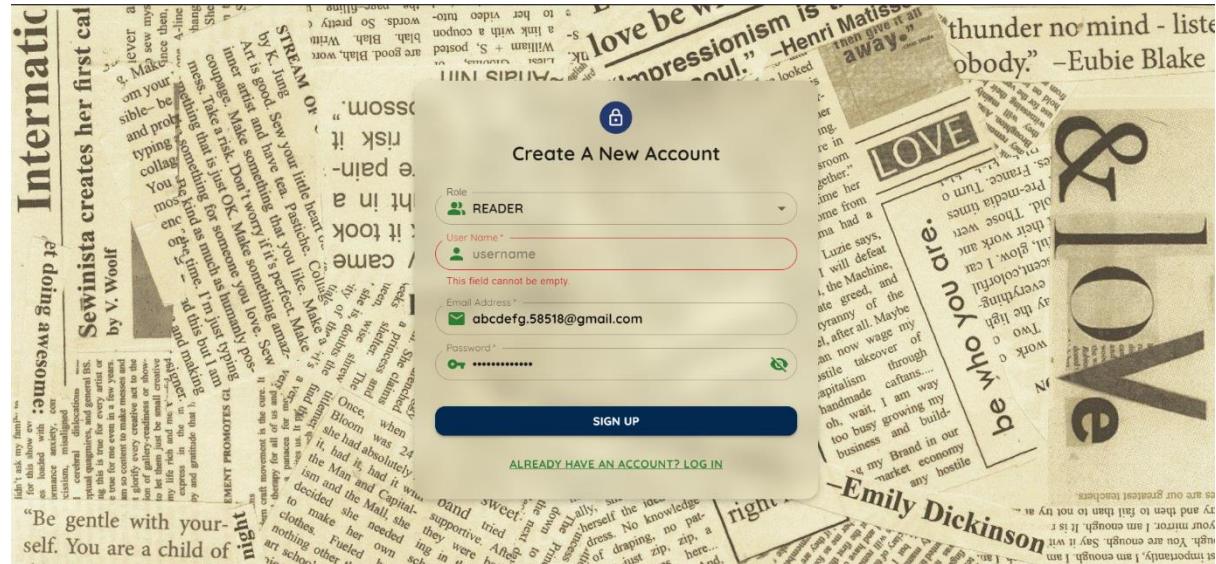
1. **SU1:** Blank email field.
2. **SU2:** Blank password field.
3. **SU3:** Invalid email format (e.g., missing '@').
4. **SU4:** Invalid email format (e.g. Invalid Top level domains) .
5. **SU5:** Password less than required length (e.g., <8 characters).
6. **SU6:** Password greater than or equal to required length. (>= 8)
7. **SU7:** Password does not meet complexity requirements (no special character).
8. **SU8:** Email already registered.
9. **SU9:** Valid username (successful signup).
10. **SU10:** Email with leading/trailing whitespaces.
11. **SU11:** Signup with email in non-English characters (e.g., Hindi)(Valid).
12. **SU12:** Signup with email with only numeric characters (e.g., 202201256 ).
13. **SU13:** Password with non-English characters.
14. **SU14:** Invalid special characters in email.(+,-,=,)
15. **SU15:** Password with only numbers.
16. **SU16:** Blank Username
17. **SU17:** Username in non-English characters
18. **SU18:** Username is not alphabetic

Sr. N o	Test Name(s)	Input Username	Input Email	Input Password	Remarks	Expected Output
1	SU1	Ayush Pandita	BLANK	Random@123	Email should not be blank;	Error: "Please fill out this field."
2	SU2	Ayush Pandita	User1@gmail.com	Blank	blank	Error: "Password is Blank."

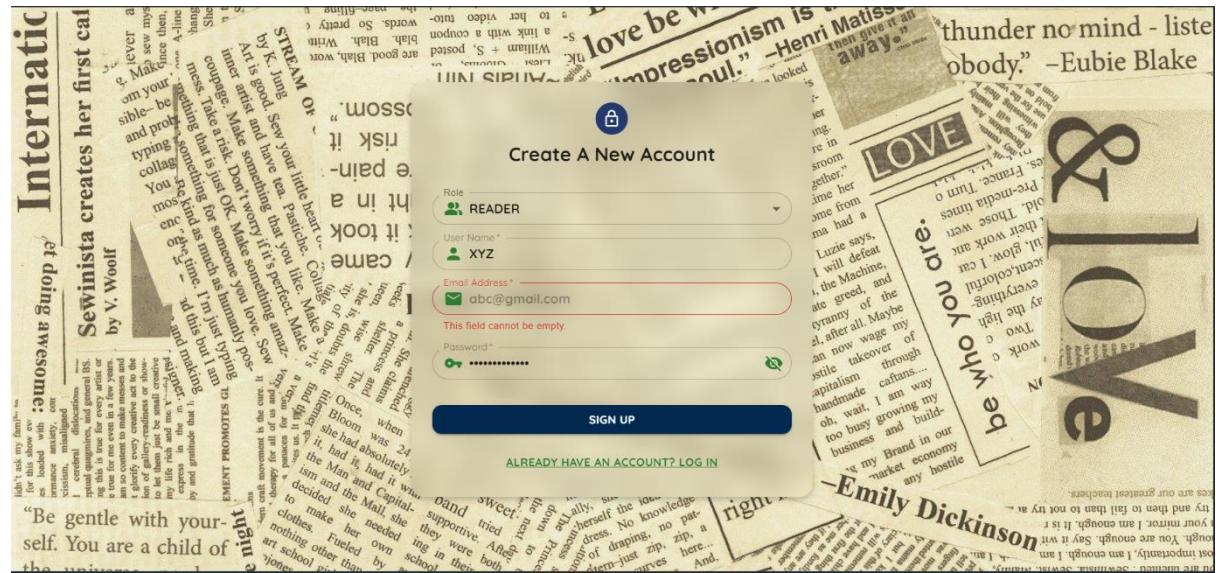
3	SU3	Ayush Pandita	User2&gmai l.com	Password@123	Invalid email format	Error: "Enter a valid email."
4	SU9,SU12, SU9,SU4 ,SU6	Ayush Pandita	<a href="mailto:user3@example.com">user3@example.com</a> 202201256 @gmail.co m	Password@123	Valid inputs; signup success	Success: "Account created."
5	SU11,SU13	Ayush Pandita	उपयोगकर्ता @gmail.co m	पासवर्ड123!	Email and password in Hindi	Success : "Account Created"
6	SU8	Ayush Pandita	User1@gma il.com	Random@123	Account with this email already exists	Already registered
7	SU5	Ayush Pandita	User4@gma il.com	@yush	Password less than 8 characters	Please enter valid password
8	SU7	Ayush Pandita	User5@gma il.com	Ayush_7777	Password doesn't contain any special character	Please enter valid password
9	SU10	Ayush Pandita	User6@gma il.com	Ayush%rdtg	Trailing spaces in email address	Enter valid email address
10	SU14	Ayush Pandita	User_%7@g mail.com	ayush@455	Special characters in user email address	Enter valid email addresses
11	SU15	Ayush Pandita	User8@gma il.com	88979687	Password as numbers	Success : Account created
12	SU16		User9@gma il.com	ayushhhhhhh	Username is blank	Enter valid Username
13	SU17,SU18	Ayush878 876564	User10@gm ail.com	AYushh76	Username is aplhanumeric/numerix	Success: Account is created
14	SU4	Ayush	User11@ga me.com	ayushhh	Invalid TLD	Enter valid email id

## Actual Output:

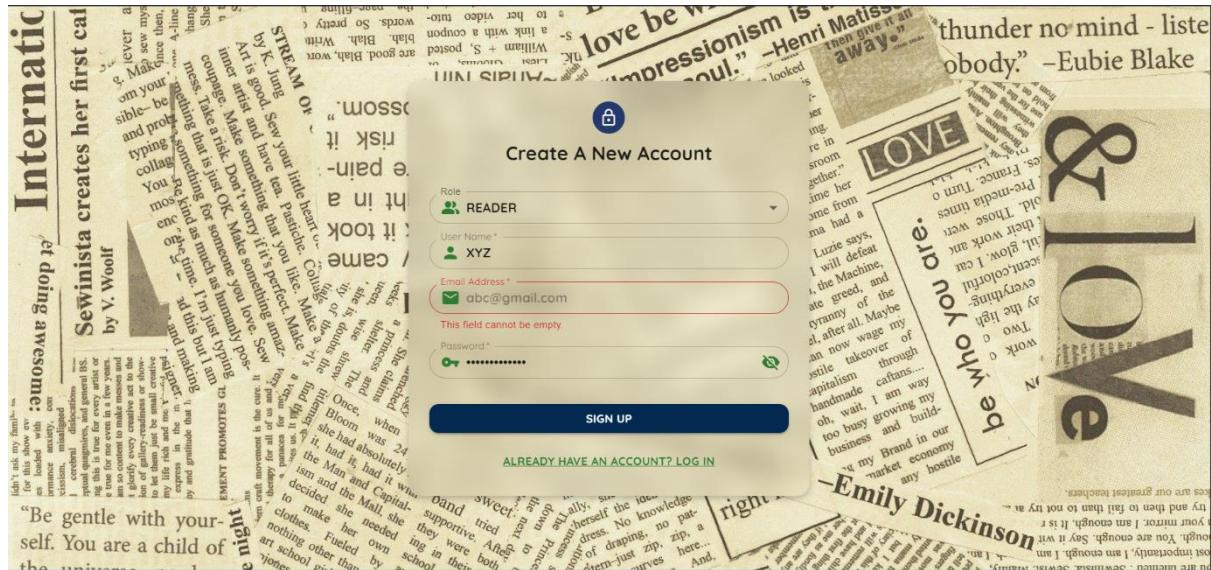
### 1)Username Blank



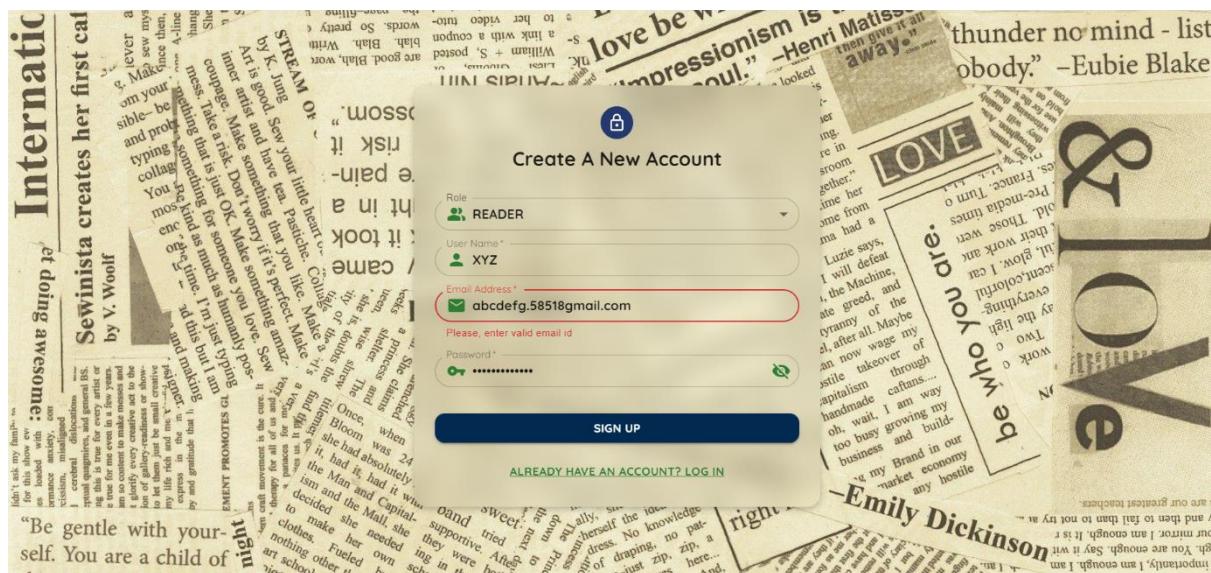
### 2)Email address blank



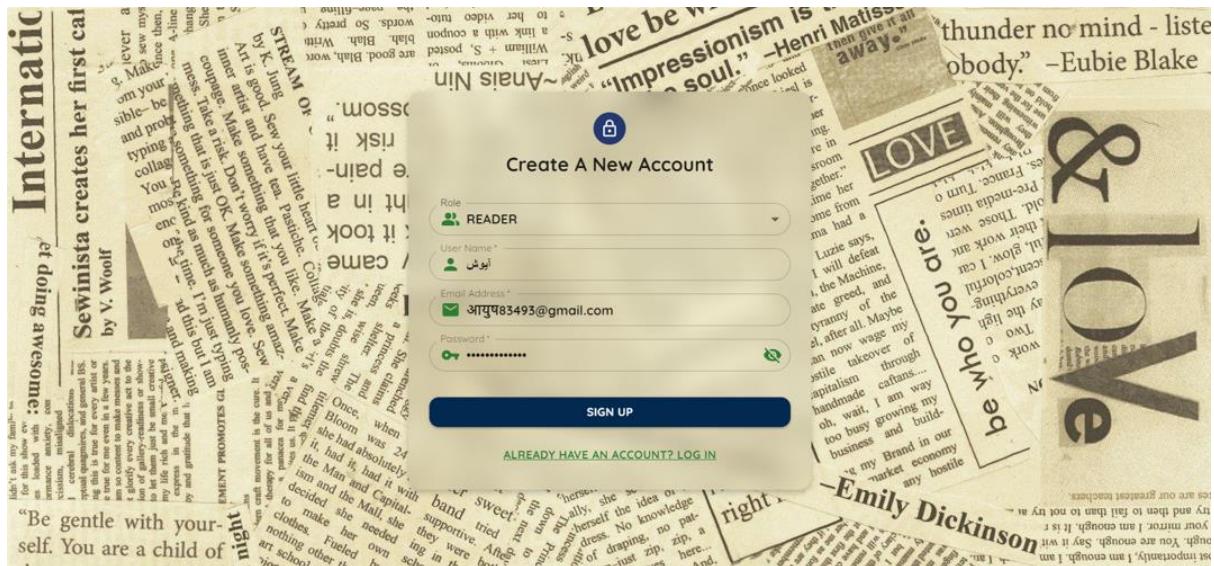
### 3) Password Blank



### 4) Invalid email



## 5) Non- English Username and Email



## 2. Login

### Test Case Description

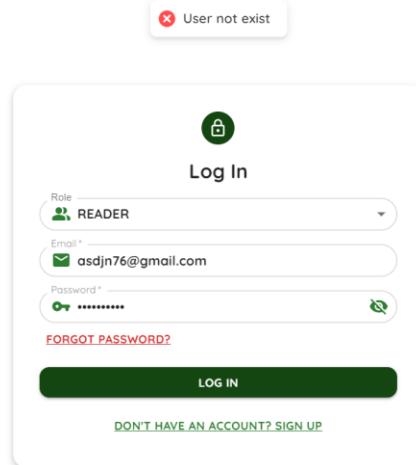
1. **L1:** Blank email field.
2. **L2:** Blank password field.
3. **L3:** Invalid email format.
4. **L4:** Valid email but incorrect password.
5. **L5:** Email not registered.
6. **L6:** Valid credentials (successful login).
7. **L7:** Case sensitivity in email and password.
8. **L8:** Login with leading/trailing whitespaces in email.
9. **L9:** Login using email in non-English characters.
10. **L10:** Login using password in non-English characters.

11. **L11:** Login with old credentials after password change.

Sr. No	Test Name(s)	Input Email	Input Password	Remarks	Expected Output
1	L11,	BLANK	Random@123	Email should not be blank	Error: "Please fill out this field."
2	L12	User1@gmail.com	BLANK	Password should not be blank	Error: "Please fill out this field."
3	L13	User2@gmail.com	Password@123	Invalid email or not registered	Error: "Invalid credentials."
4	L14	abcdefg.58158@gmail.com	ayush1234	Incorrect password	Error: Wrong Password
5	L16	User3@gmail.com	Password@123	Valid credentials; login success	Success: "Login successful."
6	L15	User4@gmail.com	3453532	Email not registered	Error: "User does not exist"
7	L18, L19,L10	उपयोगकर्ता@gmail.com	पासवर्ड123	Non-English characters or whitespaces in inputs	Success: Account Created
8	L11	User5@gmail.com	Password@123	old credentials entered	Error: "Login failed."

## Actual Output:

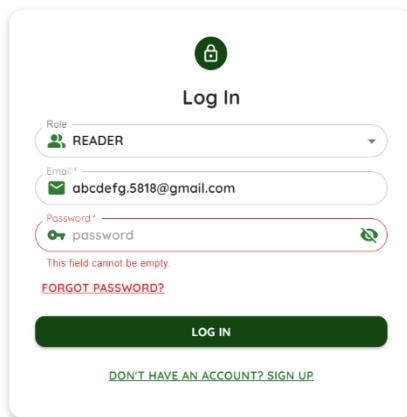
### 1) User does not exist/ Incorrect Email



The screenshot shows a login form titled "Log In". At the top right, there is a red error message box containing the text "User not exist". The form includes fields for "Role" (set to "READER"), "Email" (containing "asdjn76@gmail.com"), and "Password". Below the form is a "LOG IN" button and a link for "DON'T HAVE AN ACCOUNT? SIGN UP".

### 2) Password Blank

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The screenshot shows a login form titled "Log In". The "Email" field contains "abcdefg.5818@gmail.com". The "Password" field is empty and highlighted with a red border, with an error message below it stating "This field cannot be empty.". The form also includes fields for "Role" (set to "READER") and "Email". Below the form is a "LOG IN" button and a link for "DON'T HAVE AN ACCOUNT? SIGN UP".

### 3)Email blank

A screenshot of a login interface titled "Log In". At the top right is a green circular icon with a white padlock symbol. Below it is the word "Log In" in a bold, black font. A "Role" dropdown menu is set to "READER". The "Email" field contains the placeholder "email" and has a red border, indicating it is required. A small note below says "This field cannot be empty." The "Password" field is filled with several dots and has a green border. Below the password field is a "FORGOT PASSWORD?" link. At the bottom is a large green "LOG IN" button. At the very bottom of the form is a link "DON'T HAVE AN ACCOUNT? SIGN UP".

### 4) Non-English Credentials

A screenshot of a login interface titled "Log In". At the top right is a green circular icon with a white padlock symbol. Below it is the word "Log In" in a bold, black font. A "Role" dropdown menu is set to "READER". The "Email" field contains the placeholder "आयुष@gmail.com" and has a green border. The "Password" field contains the placeholder "ଓম্বাহু\_ত্যলিম্বন পর্দা" and has a green border. Below the password field is a "FORGOT PASSWORD?" link. At the bottom is a large green "LOG IN" button. At the very bottom of the form is a link "DON'T HAVE AN ACCOUNT? SIGN UP".

## 5) Incorrect Password

The screenshot shows a 'Log In' form. At the top right, there is a red error message box containing the text 'Invalid password'. The form includes fields for 'Role' (set to 'READER'), 'Email' (containing 'abcdefg.58518@gmail.com'), and 'Password' (containing 'ahdijfgyef6'). Below the password field is a 'FORGOT PASSWORD?' link. A large green 'LOG IN' button is at the bottom, and a 'DON'T HAVE AN ACCOUNT? SIGN UP' link is at the very bottom.

## 3. Add News Provider

### Test Case Description

1. **NP1:** Blank provider name.
2. **NP2:** Blank Base URL.
3. **NP3:** Invalid Base URL format.
4. **NP4:** Duplicate Base URL.
5. **NP5:** Valid inputs (all fields provided).
6. **NP6:** Valid inputs (optional logo missing).
7. **NP7:** Valid Base URL without "https".
8. **NP8:** Base URL with invalid TLD (e.g., ".abc").
9. **NP9:** Base URL already linked to a deleted provider.
10. **NP10:** Valid Base URL with subdomains (e.g., news.sub.example.com).
11. **NP11:** Base URL containing query parameters (e.g., https://example.com?source=aggregator).

Test ID	Base URL	Expected Output
NP1	https://example.com	Error: "Please fill out this field."

NP8, NP10	http://example.com	Error: "Invalid URL format."
NP7	https://example.com	Success: "Provider added."
NP13	https://example.abc	Error: "Invalid URL format."

## ACTUAL OUTCOMES :

### 1)Valid Provider base URL

The screenshot shows a web browser window with multiple tabs open. The active tab is titled 'NewsAggregator' and displays the 'NewsBuzz' website at 'localhost:3000/search?q=&site=timesofindia.com'. The page shows search results for the query '""'. The first result is from 'Indiatimes' dated 8 Sept 2022, titled 'Live News: Latest News and Breaking News, Real Time Live Updates'. The second result is from 'Indiatimes' dated 8 Sept 2022, titled 'ICGS Abhiraj commission News Photo Fast patrol vessel (...)' with a thumbnail image of a ship. A 'SEARCH' button is visible above the results. A 'Site' filter dropdown in the search bar is set to 'timesofindia.com'. An 'Advanced Search' sidebar is open, showing fields for 'Site' (set to 'timesofindia.com'), 'Date Range' (with 'Start Date' and 'End Date' fields), and an 'ADVANCED SEARCH' button. The browser's taskbar at the bottom shows various pinned icons.

## 2) Invalid Provider Base URL

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "localhost:3000/search?q=&site=દિવ્યભારતીકોમ". The main content area displays a search interface for "NewsBuzz". A modal window titled "Advanced Search" is open, showing fields for "Site" (set to "દિવ્યભારતીકોમ"), "Date Range" (with "Start Date" and "End Date" fields), and a "SEARCH" button. Below the search bar, a message says "Looks like the news has left you hanging. Try a better search!". The browser's taskbar at the bottom shows various pinned icons.

## 3) Invalid URL Format

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "localhost:3000/search?q=&site=timeofindia.in". The main content area displays a search interface for "NewsBuzz". A modal window titled "Advanced Search" is open, showing fields for "Site" (set to "timeofindia.in"), "Date Range" (with "Start Date" and "End Date" fields), and a "SEARCH" button. Below the search bar, a message says "Looks like the news has left you hanging. Try a better search!". The browser's taskbar at the bottom shows various pinned icons.

#### 4) Special Character in Provider BaseURL

The screenshot shows a web browser window with multiple tabs open. The active tab is 'localhost:3000/search?q=&site=timeof%40india.com'. The page displays search results for the query 'timeof@india.com'. The results include two articles from Zee News and India.Com. A sidebar on the left contains navigation icons for Home, Providers, Global, AI, Finance, Tech, Education, Entertainment, Climate Change, Society, Culture, and Science. A search bar at the top right has the placeholder 'Search for topics' and a green 'SEARCH' button. To the right of the search bar is a 'Logout' button. A 'Advanced Search' modal is open, showing fields for 'Site' (set to 'timeof@india.com'), 'Date Range' (with 'Start Date' and 'End Date' dropdowns), and an 'ADVANCED SEARCH' button. The bottom of the screen shows a taskbar with various application icons and system status indicators.

## 4. User Actions: Like, Comment, Share, Bookmark

### Test Case Description

1. **UA1:** Like article without login.
2. **UA2:** Like article logged in.
3. **UA3:** Comment on article (blank input).
4. **UA4:** Comment with special characters.
5. **UA5:** Comment with text in another language.
6. **UA6:** Share article without login.
7. **UA7:** Share article (invalid URL).
8. **UA8:** Comment with text exceeding limit (e.g., 500 characters).
9. **UA9:** Like an already liked article (toggle).
10. **UA10:** Share via unsupported platform.
11. **UA11:** View comment as a guest (read-only).
12. **UA12:** Comment containing emojis.
13. **UA13:** Delete a comment as an author.
14. **UA14:** Attempt to like a comment.

15. **UA15:** Comment without logging in
  16. **BM001:** Bookmark an article
  17. **BM002:** Remove a bookmarked article
  18. **BM003:** Access bookmarked article
  19. **BM004:** Bookmark article without logging in
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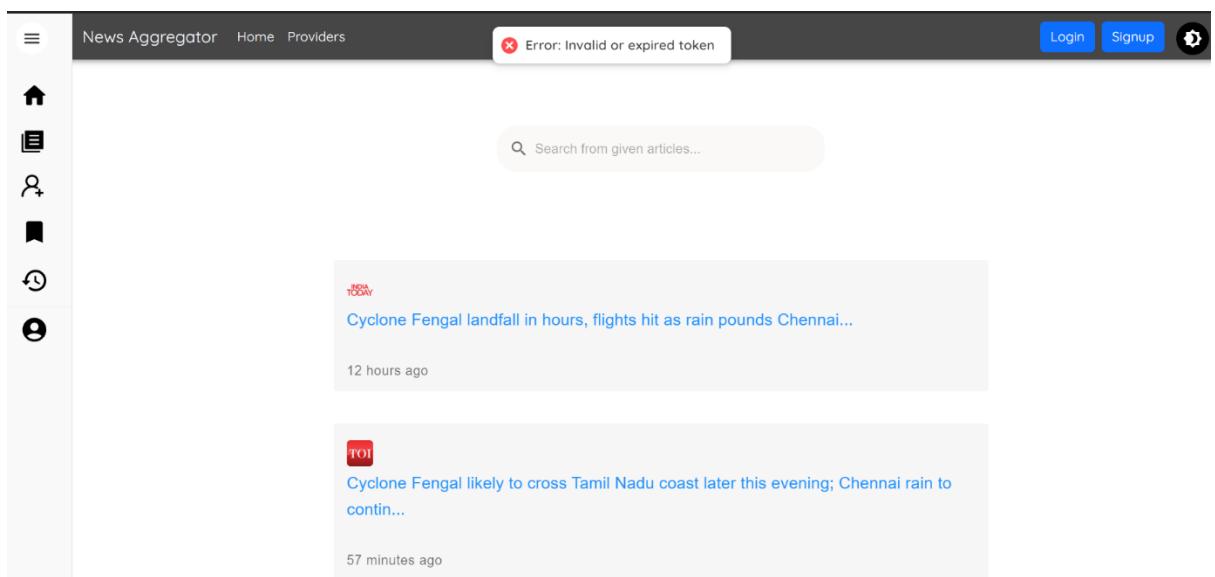
**Test Cases Table**

Test ID	Test Name	Action	Expected Output
<b>UA1</b>	Like article without login	Click "Like" without logging in	Error message: "Please log in to like articles."
<b>UA2</b>	Like article logged in	Click "Like" while logged in	Success: Article is liked.
<b>UA9</b>	Like an already liked article (toggle)	Click "Like" again	Like is removed from the article.
<b>UA3</b>	Comment on article (blank input)	Submit an empty comment	Error message: "Comment cannot be empty."
<b>UA4</b>	Comment with special characters	Submit a comment with special characters	Success: Comment is posted.
<b>UA12</b>	Comment containing emojis	Submit a comment with emojis	Success: Comment is posted.
<b>UA13</b>	Delete a comment as author	Click "Delete" on an existing comment	Success: Comment is removed.
<b>UA15</b>	Comment while logged out	Click on comment	No Action
<b>BM001</b>	Bookmark an article successfully	Click "Bookmark"	Success: Article added to bookmarks.
<b>BM002</b>	Remove a bookmarked article	Click "Remove Bookmark"	Success: Article removed from bookmarks.

<b>BM003</b>	Access bookmarked articles	Navigate to "Bookmarks" page	All bookmarked articles are displayed in reverse chronological order.
<b>BM004</b>	Bookmark article without logging in	Click "Bookmark" while logged out	Error message: "Please log in to bookmark articles."
<b>UA6</b>	Share an article without login	Click "Share" when logged out	Error: Please Login
<b>UA7</b>	Share an article with invalid URL	Click on share and copy url	Error message: 400
<b>UA10</b>	Share via unsupported platform	Select unsupported platform from share options	Error message: "Platform not supported."
<b>UA14</b>	Attempt to like a comment	Click "Like" on a comment	Error message: "Action not allowed on comments."
<b>UA11</b>	View comments as a guest	Navigate to comments section	No action

## Actual Output

### 1) Like without Login



## 2) Comment containing special characters successfully

The screenshot shows the News Aggregator application. At the top, there is a navigation bar with links for 'Home' and 'Providers'. A green success message 'Comment added successfully' is displayed. The main content area shows two news articles from 'INDIA TODAY' and 'TOI'. The first article is about 'Cyclone Fengal landfall in hours, flights hit as rain pounds Chennai' and was posted 12 hours ago. The second article is from 'TOI' about 'Cyclone Fengal likely to cross Tamil Nadu coast later this evening; Chennai rain to continue'. On the right side, a 'Comments' section is open, showing a single comment from 'Ayushh' with the text '&^'. Below the comments is a text input field with placeholder text 'Write a comment...'. The interface includes a search bar at the top and a sidebar with various topic buttons like 'GLOBAL', 'AI', 'FINANCE', etc.

## 3) Comment containing non English characters and emojis

This screenshot shows the same News Aggregator interface as the previous one. The 'Comments' section now displays two comments from 'Ayushh'. The first comment is '&^' and the second is 'أوش , 🔥'. The rest of the interface, including the news articles and search bar, remains the same.

#### 4)Delete a comment

The screenshot shows the News Aggregator application interface. At the top, there is a navigation bar with links for 'News Aggregator', 'Home', and 'Providers'. A green success message box displays 'Comment deleted successfully!'. To the right of the message are buttons for 'Search for topics', 'SEARCH', 'Logout', and a gear icon. Below the navigation bar is a horizontal menu bar with categories: 'GLOBAL' (selected), 'AI', 'FINANCE', 'TECH', 'EDUCATION', 'ENTERTAINMENT', 'CLIMATE CHANGE', 'SOCIETY', 'CULTURE', and 'SPORTS'. On the far right of the menu bar is a 'ADD TOPIC' button. A search bar with the placeholder 'Search from given articles...' is located below the menu. The main content area displays two news articles. The first article is from 'INDIA TODAY' and is titled 'Cyclone Fengal landfall in hours, flights hit as rain pounds Chennai'. It was posted '12 hours ago'. The second article is from 'TOI' and is titled 'Cyclone Fengal likely to cross Tamil Nadu coast later this evening; Chennai rain to continue'. A sidebar on the right is titled 'Comments' and shows a single comment from 'Ayushh' dated 'Dec 1, 01:07 PM' with the text '&'. Below the comment is a text input field labeled 'Write a comment...' with a blue send button.

#### 5)Like article while logged in

The screenshot shows the News Aggregator application interface. The top navigation bar includes 'News Aggregator', 'Home', and 'Providers'. A green success message box displays 'Like added successfully!'. The top right features 'Logout' and a gear icon. The horizontal menu bar below the navigation bar includes 'GLOBAL' (selected), 'AI', 'FINANCE', 'TECH', 'EDUCATION', 'ENTERTAINMENT', 'CLIMATE CHANGE', 'SOCIETY', 'CULTURE', and 'SPORTS', with 'ADD TOPIC' on the far right. A search bar with 'Search from given articles...' is present. The main content area shows three news articles. The first article is from 'Yahoo Finance' and is titled 'Suze Orman's No. 1 Money Tip Is 'Very, Very Different' From Most Advice You Have Heard'. The second article is from 'Reuters' and is titled 'Facing far-right ultimatum, French finance minister says budget can still be improved'. The third article is from 'Financial Times'. On the left side of the screen is a vertical sidebar with icons for navigation: a menu, home, list, user, bookmark, and refresh.

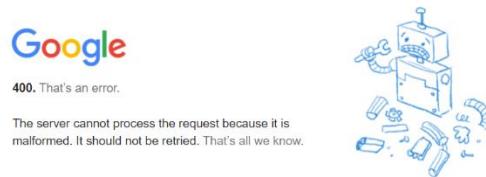
## 6) Remove a like

The screenshot shows a news aggregator interface. At the top, there's a navigation bar with 'News Aggregator', 'Home', 'Providers', a search bar ('Search for topics'), a 'SEARCH' button, a 'Logout' button, and a settings icon. Below the navigation is a category bar with 'GLOBAL' (selected), 'AI', 'FINANCE', 'TECH', 'EDUCATION', 'ENTERTAINMENT', 'CLIMATE CHANGE', 'SOCIETY', 'CULTURE', and 'SPORTS'. To the left is a sidebar with icons for Home, List, User, Bookmarks, Refresh, and Profile. The main content area displays two news cards. The first card is from 'INDIA TODAY' with the title 'Cyclone Fengal landfall in hours, flights hit as rain pounds Chennai' and a timestamp '12 hours ago'. It has a 'Like' button with a count of 2. The second card is from 'TOI' with the title 'Cyclone Fengal likely to cross Tamil Nadu coast later this evening; Chennai rain to continue'. A success message 'Like removed successfully!' is shown in a green box at the top right of the page.

## 7) Share on unsupported platforms

The screenshot shows a news aggregator interface similar to the previous one. The top navigation bar includes 'News Aggregator', 'Home', 'Providers', a search bar ('Search for topics'), a 'SEARCH' button, a 'Logout' button, and a settings icon. The category bar below includes 'GLOBAL' (selected), 'AI', 'FINANCE', 'TECH', 'EDUCATION', 'ENTERTAINMENT', 'CLIMATE CHANGE', 'SOCIETY', 'CULTURE', and 'SPORTS'. The sidebar on the left has icons for Home, List, User, Bookmarks, Refresh, and Profile. The main content area shows three news cards. The first card is from 'Forbes' with the title 'Study: 94% Of AI-Generated College Writing Is Undetected By Teachers'. It includes a snippet: 'But by and large, stopping AI academic writing from appearing in assignments for most schools or educational institutions.' Below it is a sharing modal titled 'Share this article' with icons for X, Facebook, and LinkedIn. The second card is from 'BBC' with the title 'Actress Cate Blanchett: I'm deeply concerned about AI'. It includes a snippet: 'Cate Blanchett has told the BBC she is "deeply concerned" about the impact of artificial intelligence (AI).'. The third card is from 'Hindustan Times' with the title 'When will you die? This AI-powered 'Death Clock' seems to have the answer'. The sharing modal is partially visible over the first article's content.

## 8) Share with expired/invalid URL



## 9) Bookmark an article

A screenshot of a news aggregator application interface. At the top, there is a navigation bar with links for "News Aggregator", "Home", "Providers", "Logout", and a settings icon. Below the navigation bar is a search bar with the placeholder "Search for topics" and a "SEARCH" button. A "Bookmark added successfully!" message is displayed in a green box. The main content area shows a list of news articles. The first article is from BBC, titled "Actress Cate Blanchett: 'I'm deeply concerned about AI'", posted 15 hours ago. The second article is from Hindustan Times, titled "When will you die? This AI-powered 'Death Clock' seems to have the answer", posted 11 hours ago. The third article is partially visible, showing a thumbnail of a person and the text "The Death Clock app, launched in July, predicts life expectancy using AI and data. With 125000 downloads, it aids health decisions and...". On the left side of the main content area, there is a vertical sidebar with icons for "GLOBAL", "AI", "FINANCE", "TECH", "EDUCATION", "ENTERTAINMENT", "CLIMATE CHANGE", "SOCIETY", "CULTURE", "SPORTS", and "ADD TOPIC".

## 10) Remove a bookmark

The screenshot shows the News Aggregator application's user interface. At the top, there is a navigation bar with links for 'News Aggregator', 'Home', and 'Providers'. On the right side of the top bar, there is a message box stating 'Bookmark removed successfully!' and a 'Logout' button. Below the top bar, there is a horizontal menu with categories: 'GLOBAL' (selected), 'AI', 'FINANCE', 'TECH', 'EDUCATION', 'ENTERTAINMENT', 'CLIMATE CHANGE', 'SOCIETY', 'CULTURE', and 'SPORTS'. To the right of this menu is a 'SEARCH' button and a 'Logout' button. A vertical sidebar on the left contains icons for 'Home', 'Profile', 'Bookmarks', 'Logout', and 'Help'. The main content area displays search results for the query 'AI'. The first result is from 'Forbes' with the title 'Study: 94% Of AI-Generated College Writing Is Undetected By Teachers'. The second result is from 'BBC' with the title 'Actress Cate Blanchett: 'I'm deeply concerned about AI''. Both results include a small thumbnail image.

## 11) View Bookmarks

The screenshot shows the News Aggregator application's user interface, similar to the previous one but with a different set of results. At the top, there is a navigation bar with links for 'News Aggregator', 'Home', and 'Providers'. On the right side of the top bar, there is a 'Logout' button. Below the top bar, there is a horizontal menu with categories: 'GLOBAL' (selected), 'AI', 'FINANCE', 'TECH', 'EDUCATION', 'ENTERTAINMENT', 'CLIMATE CHANGE', 'SOCIETY', 'CULTURE', and 'SPORTS'. To the right of this menu is a 'SEARCH' button and a 'Logout' button. A vertical sidebar on the left contains icons for 'Home', 'Profile', 'Bookmarks', 'Logout', and 'Help'. The main content area displays a list of bookmarks. The first bookmark is from 'Yahoo Finance' with the title 'Suze Orman's No. 1 Money Tip Is 'Very, Very Different' From Most Advice You Have Heard'. The second bookmark is from 'Reuters' with the title 'Facing far-right ultimatum, French finance minister says budget can still be improved'. The third bookmark is from 'Financial Times'.

12) Share without logging in- Displays share options(F)

The screenshot shows a news aggregator interface. At the top, there's a navigation bar with 'News Aggregator', 'Home', 'Providers', a search bar ('Search for topics'), a 'Logout' button, and a 'Logout' icon. Below the navigation is a horizontal menu with categories: 'GLOBAL', 'AI', 'FINANCE', 'TECH', 'EDUCATION', 'ENTERTAINMENT', 'CLIMATE CHANGE', 'SOCIETY', 'CULTURE', and 'SPORTS'. On the far right of the menu is a 'ADD TOPIC' button. To the left of the main content area is a vertical sidebar with icons for home, search, refresh, and other functions.

The main content area displays several news articles. The first article is from 'Forbes' with the title 'Study: 94% Of AI-Generated College Writing Is Undetected By Teachers'. A share modal is overlaid on this article, containing the text 'Share this article' and social media sharing icons for X, Facebook, and LinkedIn. Below the modal are the article's author ('Forbes'), publication time ('15 hours ago'), and a snippet of the text. The second article is from 'BBC' with the title 'Actress Cate Blanchett: 'I'm deeply concerned about AI''. It includes a small thumbnail of Cate Blanchett. The third article is from 'Hindustan Times' with the title 'Will you die? This AI-powered 'Death Clock' seems to have the answer'. A share button is visible next to this article.

## 5. History Tracking

### Test Case Description

- HT1:** Fetch history without being logged in.
- HT2:** Fetch history using an invalid user ID.
- HT3:** Revisited article history non duplicacy
- HT4:** Add a history entry with a malformed link (invalid URL).
- HT5:** Fetch history with non-English title (e.g., Hindi).

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### Test Cases

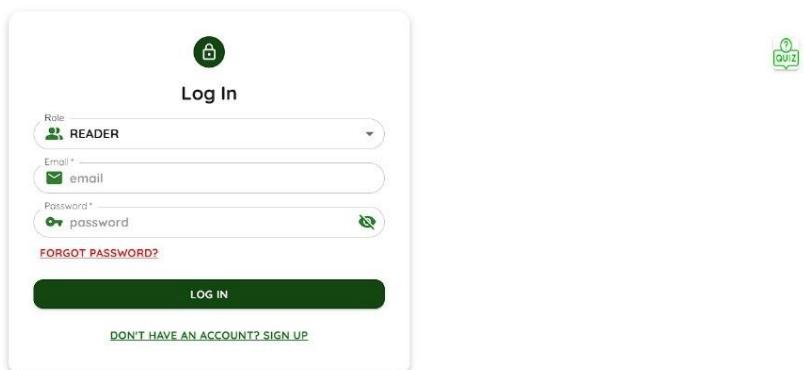
Sr. No	Test Name(s)	Input User ID	Remarks	Expected Output
1	HT3	Valid user ID	If user revisits an article	Existing history of same article replaced

2	HT4	Valid user ID	Invalid news article URL	No redirection. Therefore no history
3	HT1, HT2	BLANK, Invalid user ID	Not logged in or invalid user ID	Redirects to login page
5	HT5	Valid user ID	Fetch History with non English news Title	Article added in history

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## Actual Outcome

### 1) Fetch History without being logged in/invalid user ID



The screenshot shows a 'Log In' page with the following details:

- Role:** READER
- Email:** email
- Password:** password
- Buttons:** A large green 'LOG IN' button and a smaller 'DON'T HAVE AN ACCOUNT? SIGN UP.' link.
- Icon:** A small 'QUIZ' icon is located to the right of the form.

## 2) Duplicate articles- Shows duplicate articles (F)

The screenshot shows a user interface for a news platform named "NewsBuzz". The top navigation bar includes links for "Home" and "Providers", a search bar with placeholder "Search for topics", a "SEARCH" button, a "Logout" button, and a gear icon. Below the navigation is a horizontal menu with categories: "GLOBAL", "AI", "FINANCE", "TECH", "EDUCATION", "ENTERTAINMENT", "CLIMATE CHANGE", "SOCIETY", "CULTURE", and "SPORTS". To the right of this menu is an "ADD TOPIC" button and a "QUIZ" icon. The main content area displays three news cards. Each card has a title, a timestamp, and a small "click" button above it. The titles are identical: "Cyclone Fengal landfall in hours, flights hit as rain pounds Chennai". The timestamps are "Dec 1, 06:01 PM", "Dec 1, 05:58 PM", and "Dec 1, 05:57 PM".

## 3) Non English titled News History

This screenshot shows the same "NewsBuzz" interface as the previous one. The top navigation bar, menu, and news cards are identical. However, the first news card in the list has a title in Hindi: "भारत के इस राज्य में नहीं लगता इनकम टैक्स, सरकार ने खास वजह से दी छूट, सुनकर आप भी बसना चाहेंगे यहाँ". This indicates a historical news item from December 1, 2023.

#### 4) Invalid URL

The screenshot shows the NewsBuzz website interface. On the left is a sidebar with icons for Home, Providers, Global, AI, Finance, Tech, Education, Entertainment, Climate Change, Society, Culture, and Sports. The main header includes 'NewsBuzz' logo, 'Home', 'Providers', a search bar ('Search for topics'), a green 'SEARCH' button, a red 'Logout' button, and a user icon. Below the header is a navigation bar with categories: GLOBAL, AI, FINANCE, TECH, EDUCATION, ENTERTAINMENT, CLIMATE CHANGE, SOCIETY, CULTURE, and SPORTS. The main content area displays a search results page for the query '""'. It features a search bar with placeholder 'Search from given articles...', a message box stating 'Looks like the news has left you hanging. Try a better search!', and an 'Advanced Search' sidebar. The 'Advanced Search' sidebar contains fields for 'Site' (set to 'unicorn123.com'), 'Date Range' (with 'Start Date' and 'End Date' fields), and a blue 'ADVANCED SEARCH' button.

## 6. Quiz

### Test Case Description

- **QR001:** The standard case where a logged-in user retrieves 10 random questions.
- **QR002:** A logged-in user with an invalid role (e.g., provider) is denied access to the quiz.
- **QR003:** A user who is not logged in is denied access to the quiz.
- **QR004:** A logged-in user with a valid role (e.g., reader) has access to the quiz.
- **AS001:** A user submits a correct answer to a quiz question.
- **AS002:** A user submits an incorrect answer, and the system displays the correct and marked answers.
- **AS003:** A user skips answering a question, and the system does not provide access of next button.
- **AS004:** User answers a question; "Next" button becomes enabled.
- **AS005:** User skips a question (no answer selected); "Next" button remains disabled.
- **AS006:** User returns to a previously answered question; the selected answer remains visible.
- **AS007:** User tries to move to the next question without answering; system prevents it.

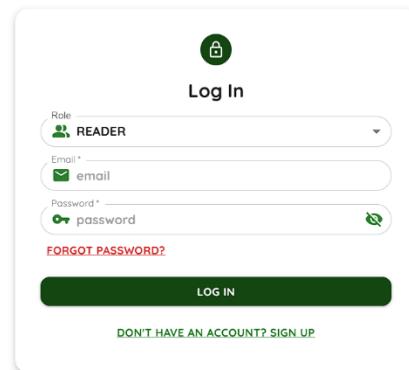
Test Id	Input	Expected Output
QR001,QR004	Logged in user + reader want to give quiz	Questions Retrieved Successfully
QR002	Without logged in user want to give quiz	Redirect to login page
QR003	Provider want to give quiz	No quiz option for provider
AS001,AS004	User select answer	Next button enabled and redirect to next question
AS002	User selected answer is wrong	In final result show correct answer and marked answer
AS003,AS005,AS007	User want to skip question	Can't do it .next button is disabled
AS006	User want to go back to previously answer question	Successfully visited previously and the selected answer remains visible.

## ACTUAL OUTCOME :

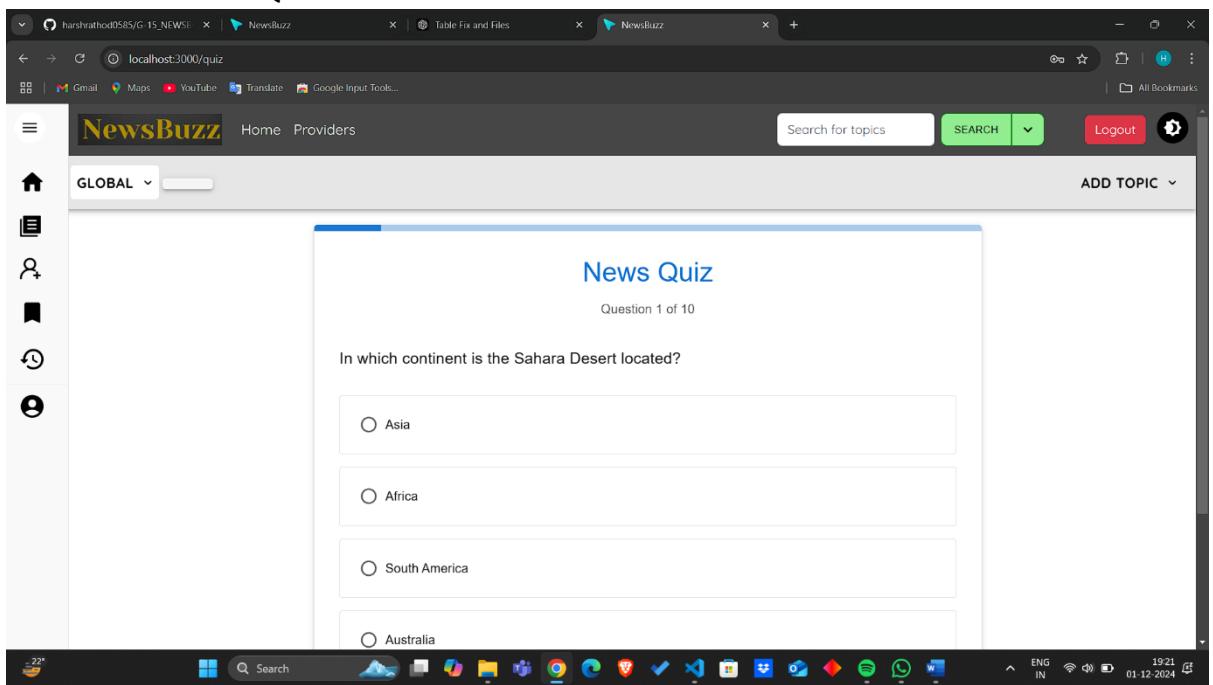
### 1) logged in user + reader role

The screenshot shows a web browser window with the URL `localhost:3000/quiz`. The page is titled "News Quiz" and displays the first question: "What is the capital of France?". Four options are listed: Paris, Madrid, Berlin, and Rome. The "Paris" option is highlighted with a blue border, indicating it is the selected or correct answer. The browser's address bar shows "localhost:3000/quiz". The top navigation bar includes links for "Home", "Providers", "Search for topics", "SEARCH", "Logout", and "ADD TOPIC". The left sidebar has icons for "GLOBAL", "AI", "FINANCE", "TECH", "EDUCATION", "ENTERTAINMENT", "CLIMATE CHANGE", "SOCIETY", "CULTURE", "SPORTS", and "ADD TOPIC". The system tray at the bottom right shows the date and time as "01-12-2024 19:18 IN".

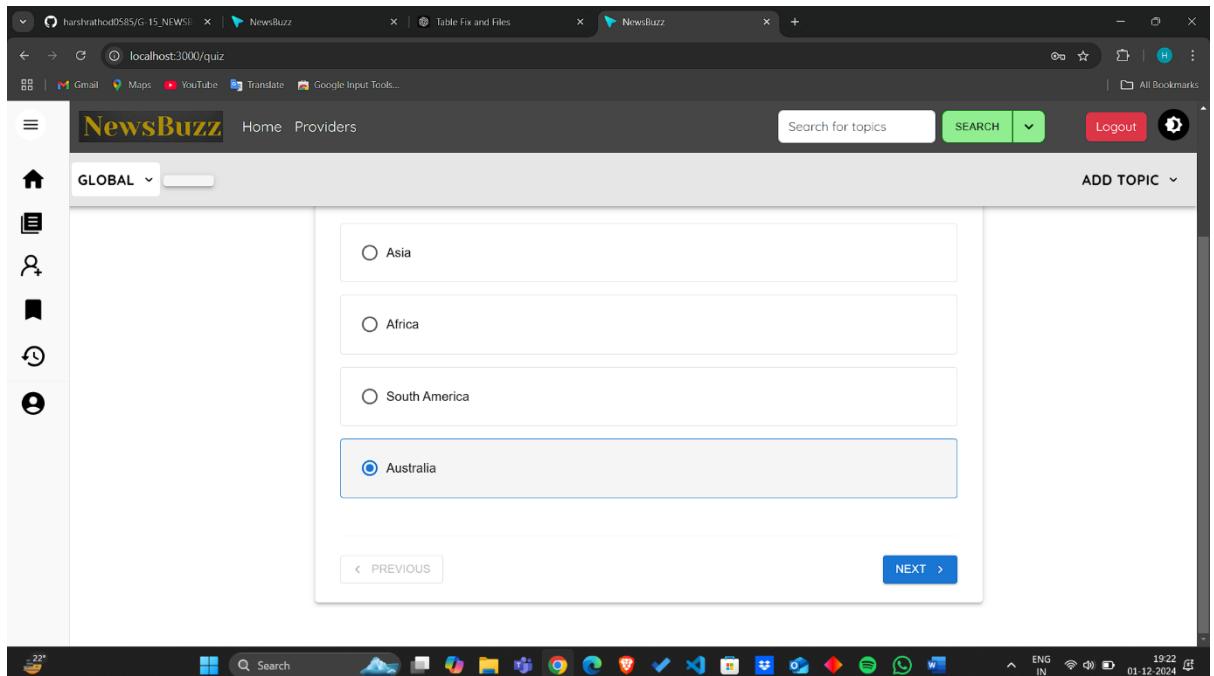
## 2) Without Loggein user



## 3) Error : Provider Give Quiz

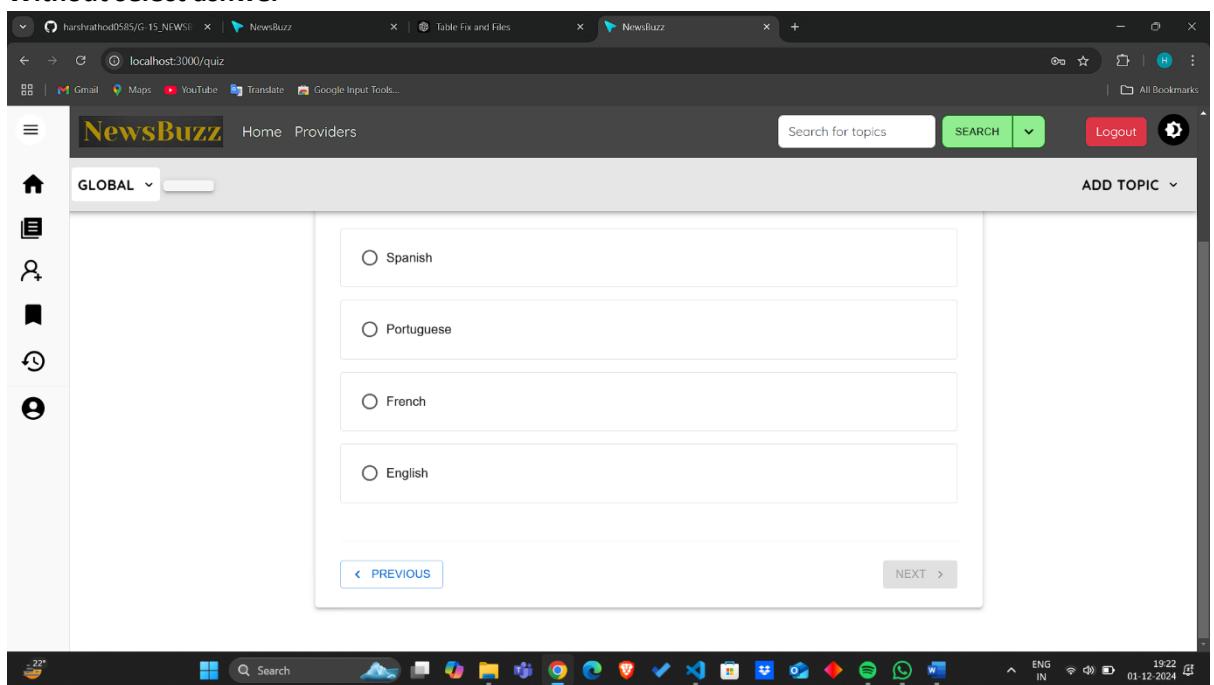


**4) Select answer + next button enabled**



The screenshot shows a quiz interface on the NewsBuzz platform. The user has selected the option 'Australia' from a list of four choices: Asia, Africa, South America, and Australia. The 'Australia' option is highlighted with a blue border and a blue radio button. Below the list are 'PREVIOUS' and 'NEXT' navigation buttons. The top navigation bar includes links for 'Home' and 'Providers', a search bar, and a 'Logout' button.

**5) Without select asnwer**



The screenshot shows a quiz interface on the NewsBuzz platform. None of the language options (Spanish, Portuguese, French, or English) have been selected. Below the list are 'PREVIOUS' and 'NEXT' navigation buttons. The top navigation bar includes links for 'Home' and 'Providers', a search bar, and a 'Logout' button.

## 6) Incorrect question show by system

The screenshot shows a web browser window with three tabs: 'localhost:3000/quiz', 'NewsBuzz', and 'Table Fix and Files'. The main content area displays the 'NewsBuzz' application. On the left is a sidebar with icons for Home, Providers, and various filters. The main area has a 'GLOBAL' dropdown set to 'Asia'. It lists 'Africa' (correct) and 'Australia' (incorrect). Below this, a question asks 'What is the longest river in the world?'. The options are 'Amazon River' (correct), 'Nile River' (correct), 'Yangtze River' (incorrect), and 'Mississippi River' (incorrect).

## 7. Sending Email for Verification and Authentication

### Test IDs and Descriptions

1. **SE1:** Send verification email during sign-up.
2. **SE2:** Send email for password reset request.
3. **SE3:** Send email with an invalid email address.
4. **SE4:** Send email when SMTP server is down.
5. **VC1:** Verify code during sign-up.
6. **VC2:** Verify code during password reset.
7. **VC3:** Enter incorrect verification code.
8. **VC4:** Enter expired verification code.
9. **VC5:** Verify code with empty input.
10. **FP1:** Reset password with valid verification code.
11. **FP2:** Reset password with invalid email.
12. **FP3:** Reset password with weak password.

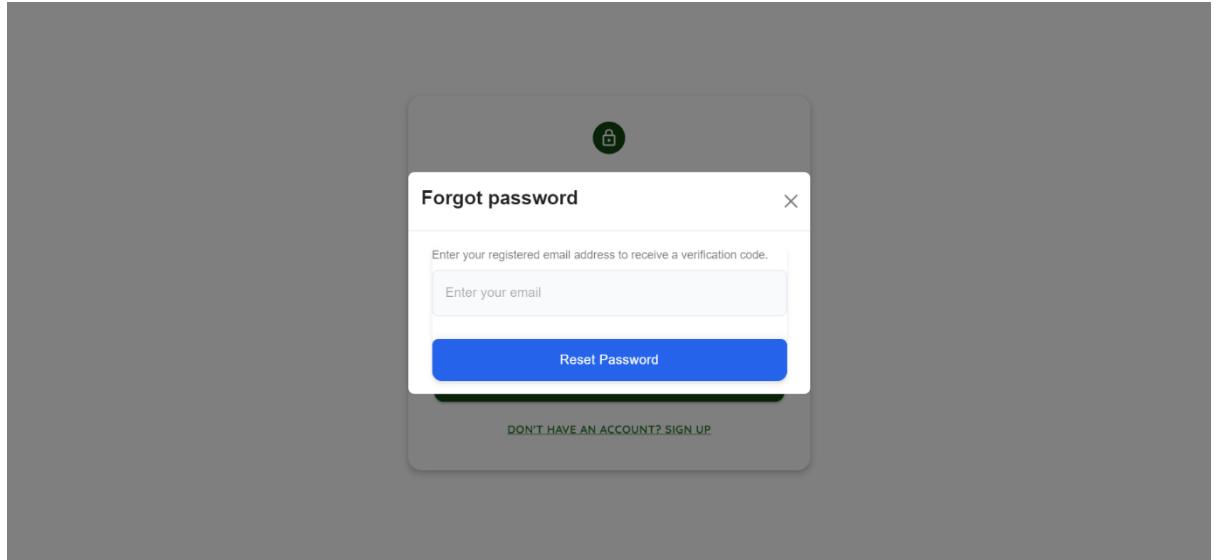
13. **FP4:** Attempt to reset password without verification.

14. **FP5:** Reset password for a non-existent user.

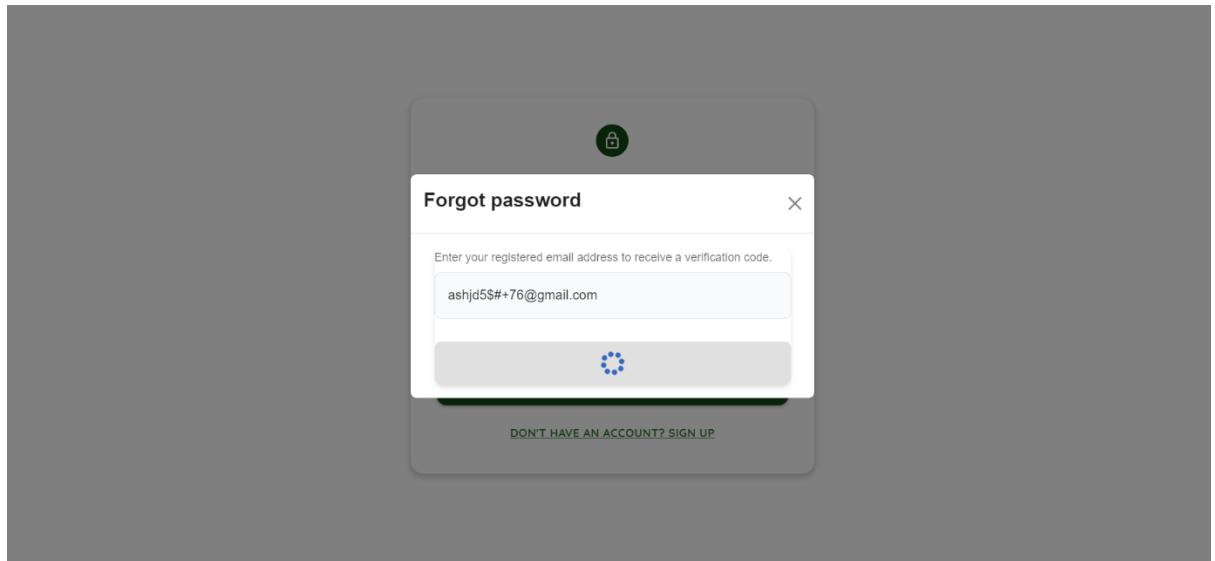
Test ID	Test Name	Action	Result
			Success: "Verification email sent successfully."
<b>SE1</b>	Send verification email during sign-up	Submit valid email during sign-up	Success: "Password reset email sent successfully."
<b>SE2</b>	Send email for password reset request	Submit valid email for reset	Error: "Invalid email format."
<b>SE3</b>	Send email with invalid email address	Submit invalid email	Error: "Failed to send email."
<b>SE4</b>	SMTP server is down	Submit email when server is down	Success: "Code verified successfully."
<b>VC1</b>	Verify code during sign-up	Enter correct code	Success: "Code verified successfully."
<b>VC2</b>	Verify code during password reset	Enter correct code	Error: "Invalid verification code."
<b>VC3</b>	Enter incorrect verification code	Enter wrong code	Error: "Verification code expired."
<b>VC4</b>	Enter expired verification code	Enter expired code	Error: "Verification code cannot be empty."
<b>VC5</b>	Verify code with empty input	Submit empty code	Success: "Password reset successfully."
<b>FP1</b>	Reset password with valid code	Submit new password with valid code	Error: "User associated with this email doesn't exist."
<b>FP2</b>	Reset password with invalid email	Submit new password with wrong email	Error: "Password does not meet security requirements."
<b>FP3</b>	Reset password with weak password	Submit weak password	Error: "Verification required to reset password."
<b>FP4</b>	Reset password without verification	Attempt reset without verifying code	Error: "User associated with this email doesn't exist."
<b>FP5</b>	Reset password for non-existent user	Attempt reset for non-existent user	Success: "Verification email sent successfully."

## Actual Outcome

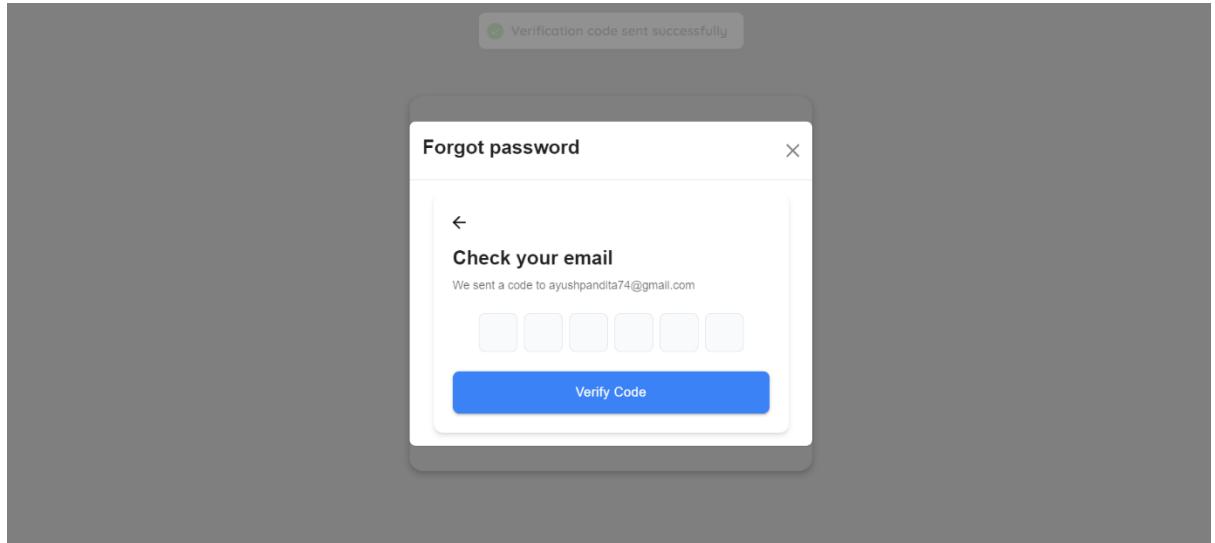
1) Send email for password reset



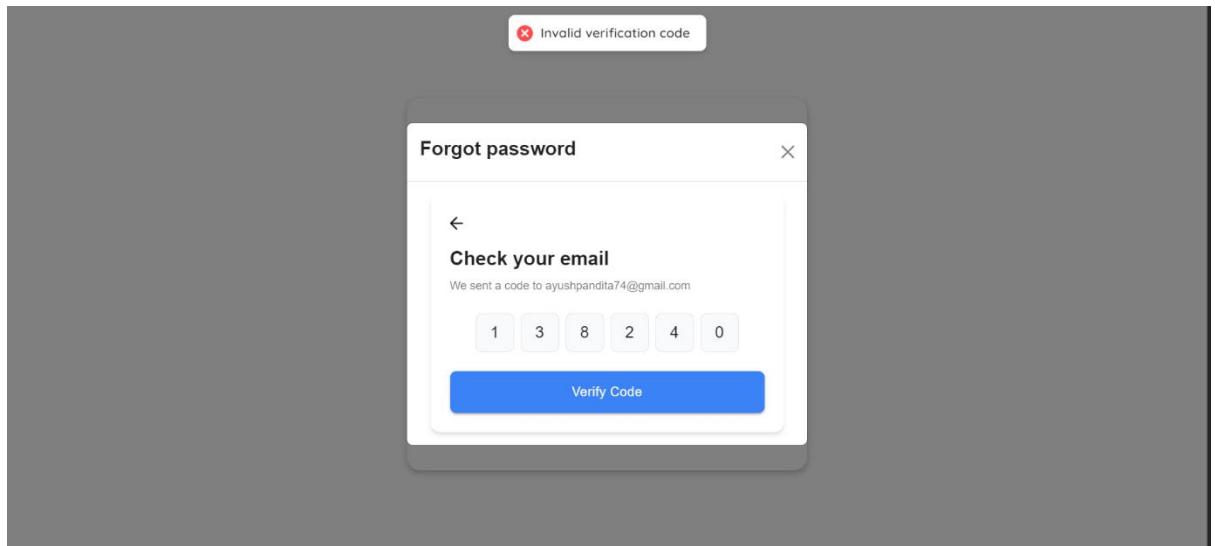
2) Send email with invalid email address



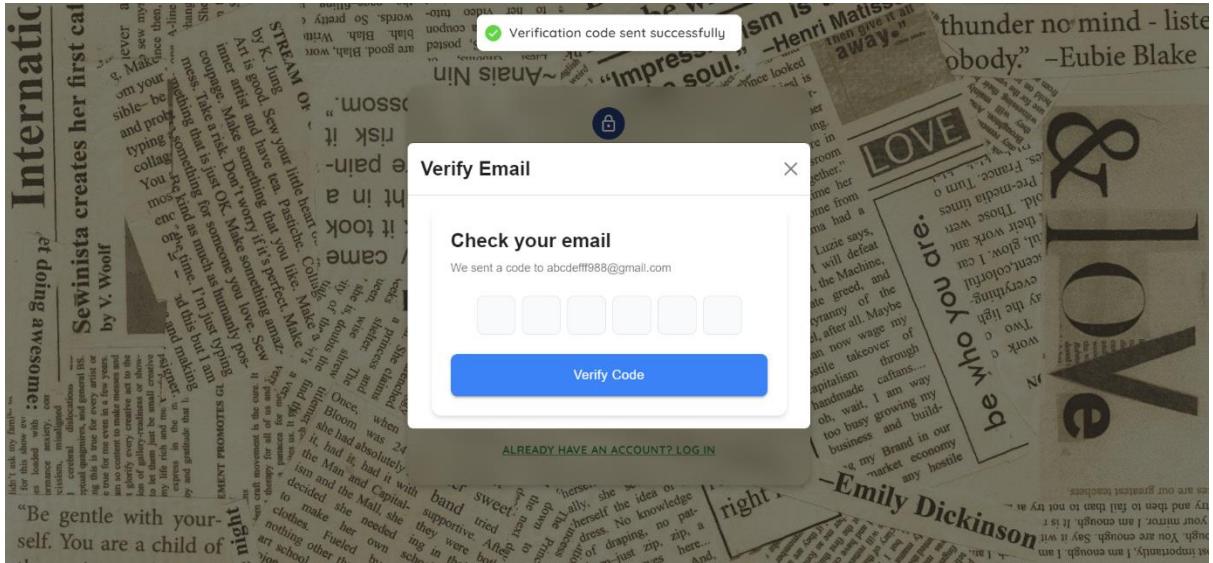
3)Verification code sent successful



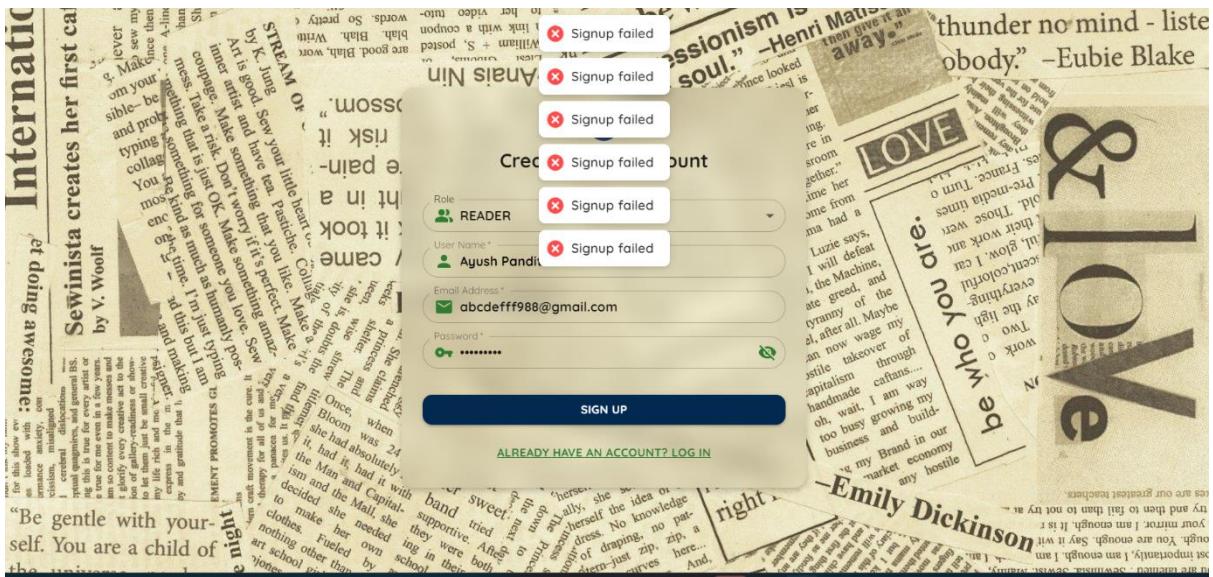
4)Invalid Verification code



## 5) Verification code sent successfully during signup



## 6) Verification email sent when server down



## 8) Search Functionality

- **SR001:** the standard case where a user searches using a valid keyword and receives matching articles.
- **SR002:** the search keyword does not match any article, displaying a "No articles found" message.
- **SR003:** the search keyword includes special characters, and matching articles are displayed if available.
- **SR004:** the search functionality works for users who are not logged in

Test ID	Test Scenario	Inputs	Expected Output
SR001	Search articles using a valid keyword	Keyword: "Technology"	Articles containing "Technology" in the title, content, or tags are displayed.
SR002	Search with no results	Keyword: "Unicorn1234"	Message displayed: "No articles found for your search."
SR003	Search with special characters	Keyword: "@AI#2023"	Articles matching special characters are displayed (if available).
SR004	Search without logging in	Keyword: "Politics"	Search results are displayed without requiring login.

## ACTUAL OUTCOMES :

### 1)Keyword : “Technology” Based News output

The screenshot shows a web browser window with the URL `localhost:8000/search?q=Technology`. The page title is "Search Results for 'Technology'" from the "NewsBuzz" provider. The search bar contains the query "Technology". The results list two articles:

- The Guardian**: "AI expert Marietje Schaake: 'The way we think about technology is shaped by the tech companies themselves'". The snippet mentions AI, tech companies, and the need for reform governments. It was posted 21 hours ago.
- The Indian Express**: "Wedding invitation cards: A marriage of tradition and technology accelerated by Covid". The snippet discusses wedding invitation cards and Covid. It was posted 21 hours ago.

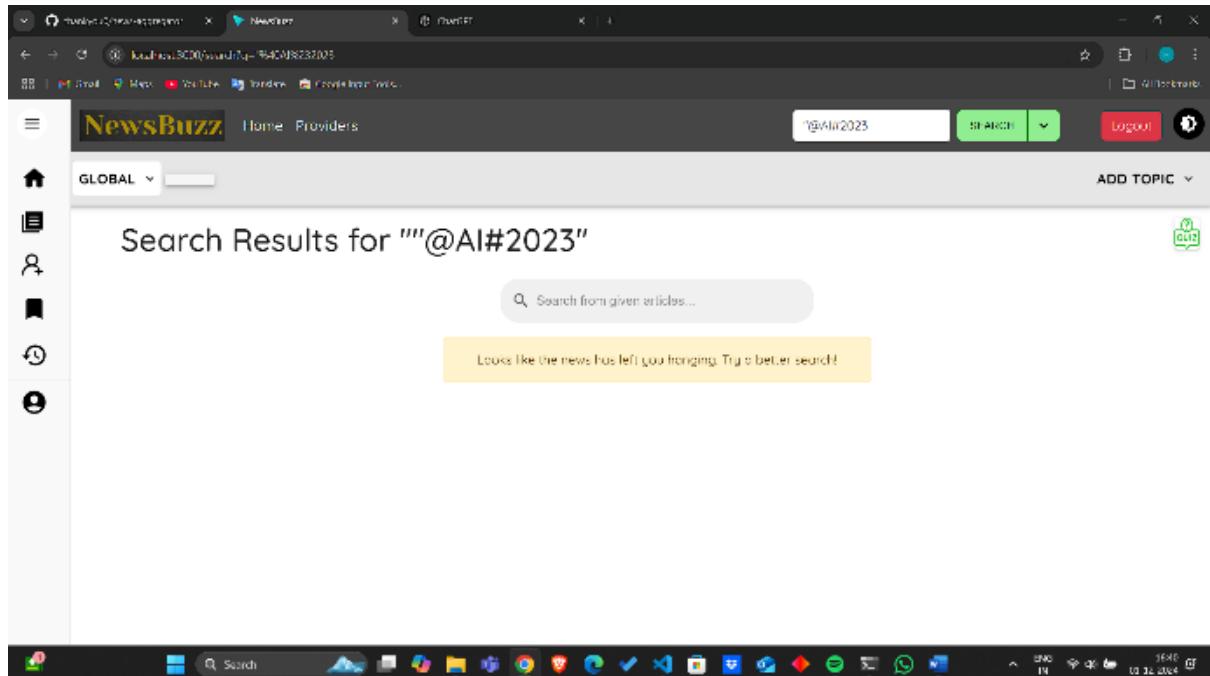
The interface includes a sidebar with navigation icons (Home, Providers, GLOBAL), a search bar, and a "Logout" button.

### 2)Keyword : “Unicorn123” Based News Not Available

The screenshot shows a web browser window with the URL `localhost:8000/search?q=Unicorn123`. The page title is "Search Results for 'Unicorn123'" from the "NewsBuzz" provider. The search bar contains the query "Unicorn123". A message box displays the text: "Looks like the news has left you hanging. Try a better search!".

The interface includes a sidebar with navigation icons (Home, Providers, GLOBAL), a search bar, and a "Logout" button.

### 3) Keyword : “@AI#2023” Based News Not Available



### 4)Without Logged in In Can't Search News

