

# NEWS TRACKER APPLICATION

Submitted By

Karunambika S P (TL)	732919ITR045
Aohnin Mistikha A	732919ITR011
Dharshini M	732919ITR024
Monisha V	732919ITR062

**Team ID:** PNT2022TMID22947

**Velalar College Of Engineering And Technology**

**(Autonomous)**



**Bachelor Of Technology**

**Department of Information Technology**

*Project Report submitted in the partial fulfilment  
for the completion of the project in*

**IBM | Nalaiyathiran**

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## **1.INTRODUCTION:**

### **1.1 PROJECT OVERVIEW:**

As our lives are very busy these days, we often feel we need more than 24 hrs. a day to cope up with everything we have in our schedule. Well, that's not possible but reducing the time by changing the conventional method of reading news can help. Just tell us what market news you're interested in and get a quick peek for the day. Only read what you feel is relevant and save your time. This app helps you to query for all information about Indices, Commodities, Currencies, Future Rates, Bonds, etc.

### **1.2 Purpose:**

Newspapers are one of the most popular and most needed commodities in our daily life. In today's busy world, reading newspapers has become one of the traditional ways of getting news. News is produced every minute and distributed via television, radio and the Internet, so the news updated the next morning is already outdated. So newspaper and magazine publishers have a hard time keeping up with the pace. Change is needed and publishers must embrace mobile and In this rapidly growing technological world where we have fast connection and network to instantly connect to other person. In this rapid and information oriented world people want to stay updated with incidents and news of their interest. This News Tracker is web application where user have access to latest news feed of the market they interested in a less time consuming way. The main focus of this application is to connect news articles from all around the world, deliver the feed of user's interest in a way that they can get a quick peek of the news with less distractions

### **Project Scope:**

- Web application that displays the news based on User Interest
- User can save and share the interesting or important feed
- User can search the news they wanted
- User can the update the interest whenever they want
- User can access the application anywhere and at any time

## 2.LITERATURE SURVEY

### Existing Problem:

As our lives are very busy these days, we often feel we need more than 24 hrs. a day to cope up with everything we have in our schedule. Well, that's not possible but reducing the time by changing the conventional method of reading news can help. Just tell us what market news you're interested in and get a quick peek for the day.

- Too much distraction caused unwanted news feed and advertisement
- Not so much application to Only read what you feel is relevant and save your time.

### 2.1 REFERENCE:

S No	TOPIC	AUTHOR	YEAR	METHODOLOGY	ACCURACY
1	Web News App	Brijesh Joshi	2014	Native Publishers like BBC News or NY Times uses their own writers to manage articles and manage it.	80%
2	Daily News App	Billsus, D. &Pazzani, M.	1999	It empowers us to partake in each dialog related to the world's recent development.	65%
3	Web Tracking	Tatiana Ermakova	2018	The accelerated adoption of cloud computing among enterprises is due to the multiple benefits the technology provides, one of them the simplification of inter-organizational information sharing, which is of utmost importance in healthcare.	85%
4	News classification based on their headline s	Mazhar Iqbal Rana;Shehzad Khalid;	2014	Due to huge availability of text in numerousforms,lotof unstructured data has been recorded by research experts and have found numerous ways in literature to convert this scattered text into defined structured volume isknown as test classification	60%

### 3.IDEATION & PROPOSED SOLUTION

#### 3.1 Empathy Map Canvas:



#### 3.2.Ideation & Brainstorming

##### Step 1: Team Gathering and Selection of Problem Statement

**Brainstorm & idea prioritization**

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

10 minutes to prepare  
1 hour to brainstorm  
2-8 people recommended

[Share template feedback](#)

**Before you collaborate**

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

10 minutes

- Team gathering**  
Online: select a good participant list. For sessions and zoom: invite three news information or journalism related Participants: Ashwin Mishra & Deepankar K. Karanabhisha S P. Monisha V
- Set the goal**  
To brainstorm ideas for news reader application based on User needs to create what actions it could be prioritized
- Learn how to use the facilitation tools**  
Use the facilitation superpowers to run a speedy and productive session

[Open article](#)

**Define your problem statement**

What problem are you trying to solve? Frame your problem as a how might we statement. This will be the focus of your brainstorm.

5 minutes

**PROBLEM**

How might we display news feed that user interested so that user get a quick peek of the day with less distractions in app

**Key rules of brainstorming**

Turn an idea into an actionable solution

- Start with goals
- Define outcome
- Set the measure
- Encourage wild ideas
- Listen to others
- If possible, be visual

## Step 2 : Braistroming ,Idea List and Grouping

2

### Brainstorm

Write down any ideas that come to mind that address your problem statement.

🕒 10 minutes

#### TIP

You can select a sticky note and hit the pencil [switch to sketch] icon to start drawing!

#### Karunambika S P

Latest News feed on top	Local news	Customized search
More Control to the user	Categorizing news	Various markets for filter
Daily updates on interested news feed	Option to get filter based on time	Bookmarking news
News should short and clear	List on the market niche user following	Profile Customization
Sharing link to friends	Community based on interested market niche	Multi Language support
Proter and smoother Performance or style="user-select: auto;"	Bug free	Less distractive
24/7 Service should be available	Profile Customization	News Review
Depth of news (time/valuation)	News should be from trustable resource	Weather updates based user given location
Spam message should		

#### Monisha V

Search	Voice search	Date
Time	Latest news update	News details
News review	Scrolling option	Select or click the news for more details
Less Ads	Profile option	Setting option
Profile editing	Notification option	No frustrated in this app
Very little resource usage	Curated and focused	Marks trends tracking
Track how often user visit area	Bookmarking news	Save and download
Share the link	Data usage	All Languages Available

#### Dharshini M

Sport news	Date and time	Settings
My feeds	Health care	Profile customization
Entertainment news	Multi languages supports	My interests
Traffic news	Day to day news	Share news to other apps
Select location and get news	Filter based on market feed	

#### Aohnin Mistikha

Search	News updates	Settings
Profile options	Less ads	All languages news are updated
Languages selection	Various markets for filter	Notification option
Share market news	Breaking news	Top trending events
Time based Filter		

3

### Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

🕒 20 minutes

#### Search Option

Global Search bar	Filters in Search bar	Time based filter
Filter based on market feed	Options for Narrowing Search	
Daily updates on interested news feed		

#### News Display

Local News	Local news or other place	Options of various market Place
All language Support	Trending news on top	Bookmarking news
Breaking news on interested niche	My news feed tab	

#### Other Features

Less ads	Profile Customization
Settings	Help
Weather info	

#### TIP

Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

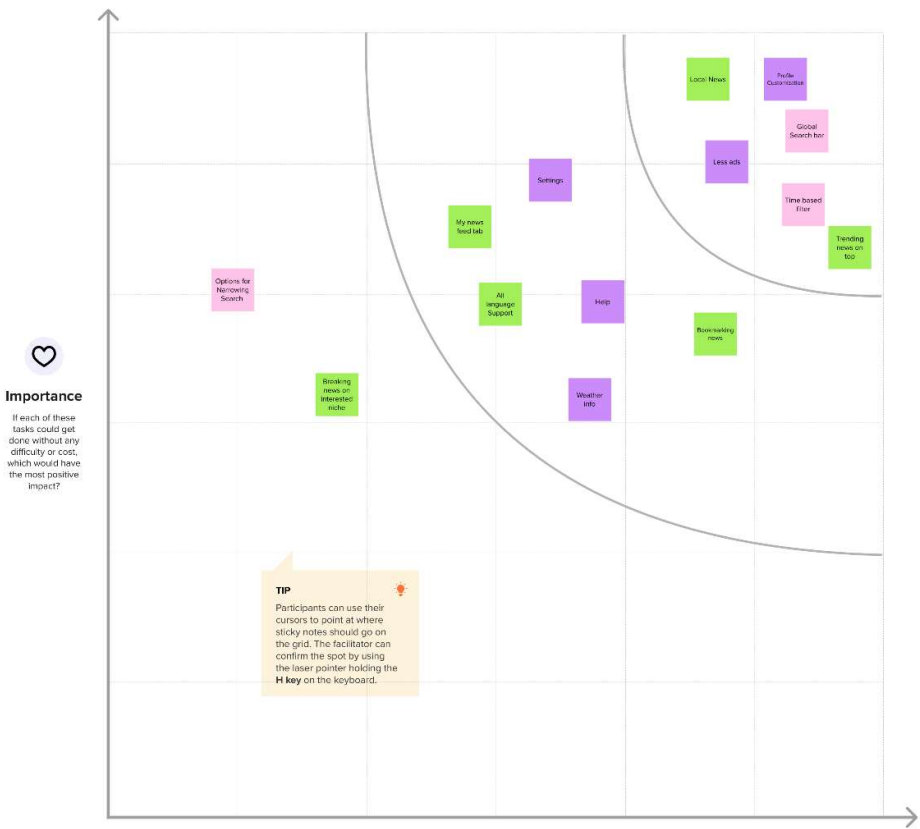
# Idea Prioritization:

4

## Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

🕒 20 minutes



### 3.3.Proposed Solution

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To grow in this information(data)-oriented fast- paced world people need to update themselves intheir interested market sectors So that the user wants a solution to get news feedrelevant to their choices so that they can save time on searching news and the available news applications are filled with ads and spam which are distractive and annoys user's experience
2.	Idea / Solution description	Providing a cloud-based web application which gives user a more control by displaying trending news based on user's choice, their interest and location
3.	Novelty / Uniqueness	The news tracker application which enables user to focus on the news of market area they are interested from with no annoying ads and irrelevant feed
4.	Social Impact / Customer Satisfaction	More users can enhance their knowledge on news feed they are interested with no external distraction within application which result in less time consumption and more knowledge on the interestedmarket area  With absence of annoying and distractive Advertisements and reliable and accurate news feed  This application will greatly satisfy user needs
5.	Business Model (Revenue Model)	The model can generate revenue through few premiums by providing features like displaying what social personalities insights on the news, featured news of the month /week
6.	Scalability of the Solution	Since application will deployed in IBM Cloud ,it can manages multiple user at a time which will give seamless user experience and it can also be extended as per the traffic



### 3.4 Problem solution fit:

Project Title: News Tracker Application

Project Design Phase-I - Solution Fit

Team ID: PNT2022TMD22

Define CS, fit into CC	<b>1. CUSTOMER SEGMENT(S)</b> <span>CS</span> Who is your customer? i.e. working parents of 0-5 y.o. kids <ul style="list-style-type: none"> <li>News Reader</li> <li>Students</li> <li>From young people to old people</li> <li>From village people to city people</li> </ul>	<b>6. CUSTOMER CONSTRAINTS</b> <span>CC</span> What constraints prevent your customers from taking action or limit their choices of solutions? i.e. spending power, budget, no cash, network connection, available devices. <ul style="list-style-type: none"> <li>Network Connection</li> <li>It will consume more time and cost</li> <li>Should provide download option</li> <li>Don't need to carry newspaper for various locations</li> </ul>	<b>5. AVAILABLE SOLUTIONS</b> <span>AS</span> Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? i.e. pen and paper is an alternative to digital notetaking. <ul style="list-style-type: none"> <li>People may use either newspaper or social media or youtube channels to know the news.</li> <li>People may also use google news and google assistants for tracking information.</li> </ul>
	<b>2. JOBS-TO-BE-DONE / PROBLEMS</b> <span>J&amp;P</span> Which jobs to be done (or problems) do you address for your customers? There could be more than one; explore different sides. <ul style="list-style-type: none"> <li>We can avoid fake news</li> <li>News received at correct time</li> <li>With the help of our customer location, the app can automatically post the news in their surroundings.</li> <li>Providing reading mode.</li> </ul>	<b>9. PROBLEM ROOT CAUSE</b> <span>RC</span> What is the real reason that this problem exists? What is the back story behind the need to do this job? i.e. customers have to do it because of the change in regulations. <ul style="list-style-type: none"> <li>In a busy world people not have allocate time for reading newspaper and watching news channels.</li> <li>No user customization.</li> <li>Though the app is not attractive, user lose interest on app.</li> </ul>	<b>7. BEHAVIOUR</b> <span>BE</span> What does your customer do to address the problem and get the job done? i.e. Directly related: find the right solar panel installer, calculate usage and benefits, indirectly associated: customers spend free time on volunteering work (i.e. Greenpeace) <ul style="list-style-type: none"> <li>User gets frustrated while using bad user interface.</li> <li>User may feel stressed eye.</li> <li>People follow youtube channels but this will not possible to fetch all the news.</li> <li>Sometimes user feels disturbed while continuous notification occurs.</li> </ul>
Identify strong TR & EM	<b>3. TRIGGERS</b> <span>TR</span> What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news. <ul style="list-style-type: none"> <li>When things goes viral.</li> <li>People asking about latest news.</li> </ul>	<b>10. YOUR SOLUTION</b> <span>SL</span> If you are working on an existing business, write down your current solution first, fill in the corners, and check how much it fits reality. If you are working on a new business proposition, then keep it blank until you fill in the corners and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour. <ul style="list-style-type: none"> <li>Providing a cloud-based web application which gives user a more control by displaying trending news based on user's choice, their interest and location.</li> <li>The news tracker application which enables user to focus on the news of market area they are interested from with no annoying ads and irrelevant feed.</li> </ul>	<b>8. CHANNELS of BEHAVIOUR</b> <span>CH</span> <b>ONLINE</b> What kind of actions do customers take online? Extract online channels from #7 <ul style="list-style-type: none"> <li>In online, people know news faster through network.</li> <li>Advertisement.</li> </ul>
	<b>4. EMOTIONS: BEFORE / AFTER</b> <span>EM</span> How do customers feel when they face a problem or a job and afterwards? i.e. lost, insecure > confident, in control - use it in your communication strategy & design. <ul style="list-style-type: none"> <li>Feels waste of time because of irrelevant context.</li> <li>Feels getting lack of information about that particular content.</li> </ul>		<b>OFFLINE</b> What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development. <ul style="list-style-type: none"> <li>Customer's review.</li> <li>User can save post and makes use of it later.</li> </ul>

#### 4.REQUIREMENT ANALYSIS :

The functional requirements of the proposed solution are as follows

<b>FR No.</b>	<b>Functional Requirement (Epic)</b>	<b>Sub Requirement (Story / Sub-Task)</b>
FR-1	User Registration	Registration through Gmail Registration using Login /Sign Up form
FR-2	User Confirmation	Confirmation via Google Authentication/Mail
FR-3	User Login	User login with username and password Login orwith Gmail
FR-4	User Interface	User goes through the filtered news provided byapplication as per their interest
FR-5	User Account Settings	User can update account credentials, personal Information, interests and choices of news andcan report any issues

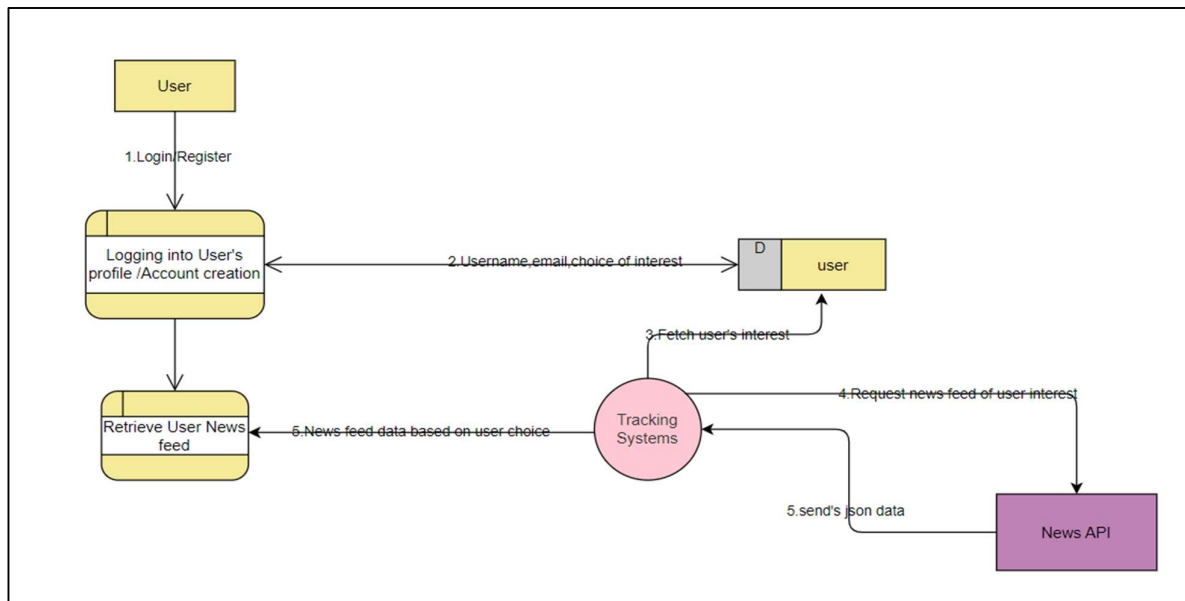
**Non-functional Requirements:**

The non-functional requirements of the proposed solution are as follows:

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	This application is easily navigable which is suitable from young to old people which enhance the user-friendly experience All possible actions can be easily accessed so that user can effectively spend their time of learning about the information
NFR-2	Security	The application uses Google OAuth 2.0 / Auth0 for User authentication
NFR-3	Reliability	The application could be able to handle requests without failure in 95 percent of all use cases since the IBM cloud is reliable doesn't face down time so often
NFR-4	Performance	The application's Home Page/News feed page has a loading time of 5-6 seconds.
NFR-5	Availability	The application must be available to the users at least 99% of the time in a month.
NFR-6	Scalability	Considering the cloud factors the application should be able to handle upto 10,000 users at a time

## 5.PROJECT DESIGN:

### 5.1 Data Flow Diagram:



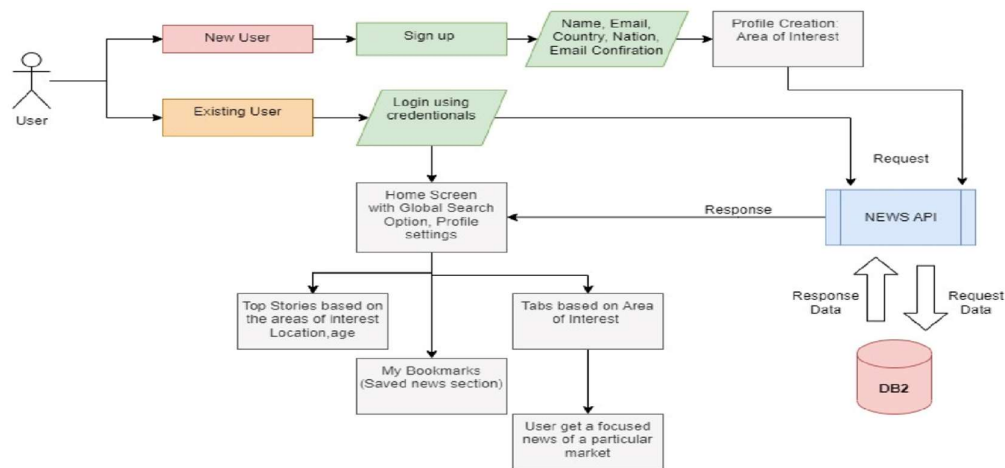
1. When user register the user info will be stored in the user DB with information like username , password and email
2. Then the user will see the screen to enter their area of interest which will saved in same user db and integrated with News API
3. The news based on user interests will be rendered and displayed once the user login

## 5.2 Solution and Technical Architecture:

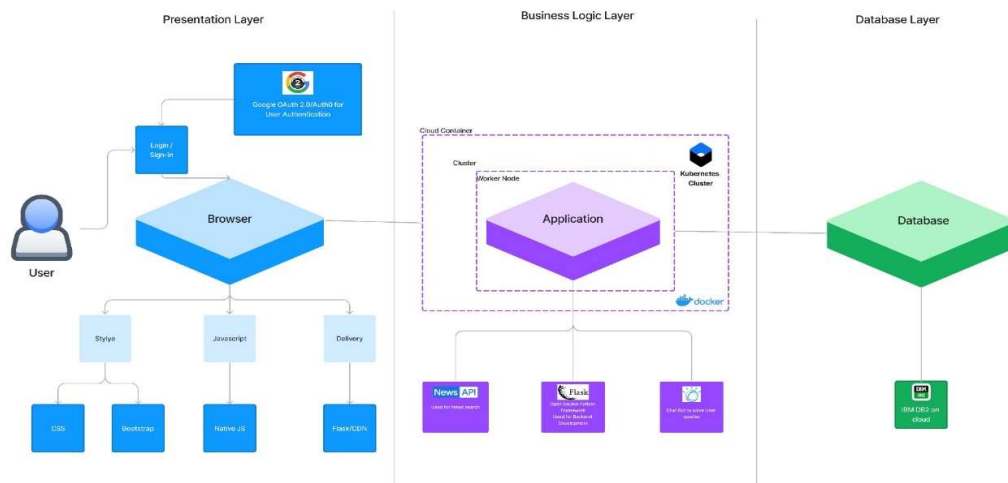
### Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.



### Technical Architecture Diagram:



### 5.3 User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Web User/Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	USN-4	As a user, I can log into the application by entering email & password		High	Sprint-1
	Dashboard	USN-5	As a user, I could see the news feed I am interested		High	Sprint-2
		USN-6	As a user, I could see the news feeds filtered according to my choice as I go through		High	Sprint-2
		USN-7	As a user, I can save the news I think interested or to read later		Medium	Sprint-3
	Settings	USN-8	As I user, I can log out of my profile in settings	I can click confirm to log out while trying to log out	Medium	Sprint-3
		USN-9	As I user, I update my interests and choice in account settings		High	Sprint-4
Customer Care Executive	Chat Bot/Help	USN-10	Solve the issues requested by client		Medium	
Administrator		USN-11	Roll out updates and bug fixes		Medium	

## 6.PROJECT PLANNING & SCHEDULING :

### 6.1.Sprint Planning & Estimation

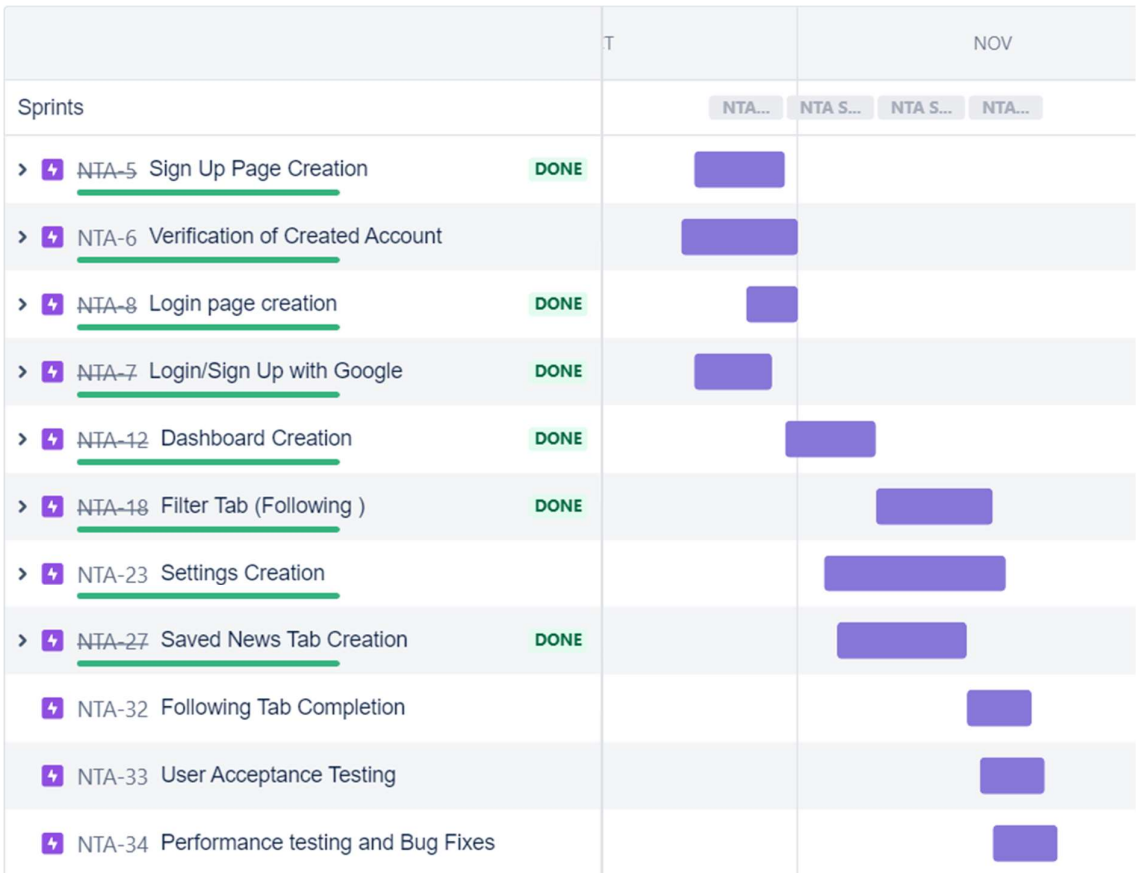
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	5	High	Aohnin Mistikha, Karunambika
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	5	High	Dharshini, Monisha
Sprint-1		USN-3	As a user, I can register for the application through Gmail	5	Medium	Karunambika, Dharshini
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password	5	High	Monisha, Aohnin
Sprint-2	Dashboard	USN-5	As a user, I could see the news feed I am interested	10	High	Karunambika, Monisha
Sprint-2		USN - 6	As a user, I could see the news feeds filtered according to my choice as I go through	10	High	Aohnin Mistikha, Dharshini
Sprint-3		USN-7	As a user, I can save the news I think interested or to read later	10	Medium	Dharshini, monisha
Sprint-3	Settings	USN-8	As I user, I can log out of my profile in settings	10	Medium	Aohnin, Karunambika
Sprint-4		USN-9	As a user, I can update my interests and choice in account settings.	10	High	Karunambika, Monisha, Aohnin
Sprint-4	Chat bot / Query	USN-10	Solve the issues requested by client	5	Medium	Dharshini, Monisha, Aohnin, Karunambika
Sprint-4		USN-11	Roll out updates and bug fixes	5	Medium	Dharshini, Monisha, Aohnin, Karunambika

### 6.2 Sprint Delivery Schedule

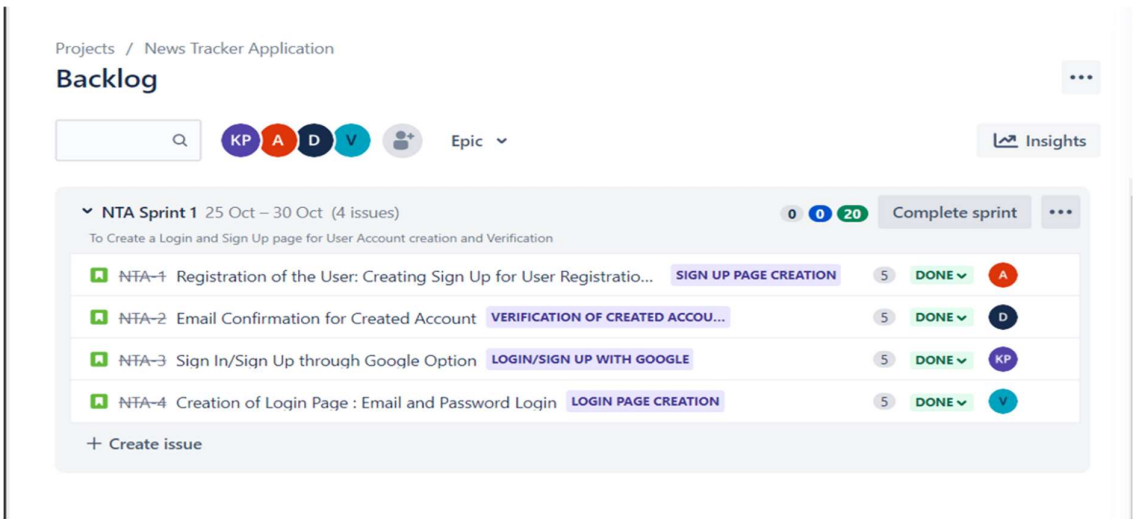
Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

6.3 Reports from Jira:

Roadmap:



Sprint 1:





Sprint 2:

Jira Software

Your work

Projects

Filters

Dashboards

People

Apps

Create

Search

?

⚙

KP

News Tracker Applicati...

Software project

PLANNING

Roadmap

Backlog

Board

DEVELOPMENT

Code

Project pages

Add shortcut

Project settings

You're in a team-managed project

Learn more

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Projects / News Tracker Application

Backlog

...

Q

KP A D V

Epic

Type

Insights

NTA Sprint 2 1 Nov – 6 Nov (6 issues)

0 20 0 Start sprint

...

NTA-13 Create a navigation bar with search DASHBOARD CREATION 4 IN PROGRESS D

NTA-15 Dashboard Backend DASHBOARD CREATION 4 IN PROGRESS V

NTA-16 News feed Filter (Following tab Creation) FILTER TAB (FOLLOWING) 3 IN PROGRESS KP

NTA-17 News API Integration DASHBOARD CREATION 3 IN PROGRESS A

NTA-21 Filter Backed Creation FILTER TAB (FOLLOWING) 4 IN PROGRESS KP

NTA-22 Dashboard Front End Creation DASHBOARD CREATION 2 IN PROGRESS A

+ Create issue

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Projects / News Tracker Application

NTA Sprint 2

To Create a Dashboard and integrate API

🔗 ☆ ⌚ 0 days remaining Complete sprint

...

Q

KP A D V

Epic

Type

GROUP BY None Insights

TO DO

IN PROGRESS 6 ISSUES

DONE 3 ISSUES

Create a navigation bar with search DASHBOARD CREATION NTA-13 4 D

Dashboard Backend DASHBOARD CREATION NTA-15 4 V

News feed Filter (Following tab Creation) FILTER TAB (FOLLOWING) NTA-16 3 KP

UI Fixes NTA-11 ✓ V

Dashboard Creation Front End NTA-14 ✓ 2 A

Filter Backed Creation NTA-20 ✓ 4 KP

### Sprint 3:

News Tracker Applicati...

Software project

PLANNING

Roadmap

Backlog

Board

DEVELOPMENT

Code

Project pages

Add shortcut

Project settings

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Projects / News Tracker Application

Backlog

Q

KP A V D

Epic

Type

Insights

NTA Sprint 3 7 Nov - 13 Nov (7 issues)

To Complete Saved news and Give Bookmarks option

NTA-24 Settings Tab Creation(Front End & Backend Setup) SETTINGS CREATION

4

IN PROGRESS

KP

NTA-25 Personal Info in Settings SETTINGS CREATION

3

IN PROGRESS

A

NTA-26 Account Info and Contact Creation SETTINGS CREATION

2

IN PROGRESS

V

NTA-28 Saved News Bookmark in dashbord SAVED NEWS TAB CREATION

2

IN PROGRESS

A

NTA-29 Saved News Front End Creation SAVED NEWS TAB CREATION

4

IN PROGRESS

D

NTA-30 Following Tab Front Creation FILTER TAB (FOLLOWING )

3

TO DO

V

NTA-31 Saved News backend FILTER TAB (FOLLOWING )

2

TO DO

KP

+ Create issue

karunambika08.atlassian.net/jira/software/projects/NTA/boards/1

YouTube Front end Nalajayathiran IBM UX (18) LinkedIn Japan

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Projects / News Tracker Application

NTA Sprint 3

To Complete Saved news and Give Bookmarks option

0 days remaining

Complete sprint

GROUP BY None

Insights

TO DO 2 ISSUES

Following Tab Front Creation FILTER TAB (FOLLOWING )

NTA-30 3 V

Saved News backend FILTER TAB (FOLLOWING )

NTA-31 2 KP

IN PROGRESS 5 ISSUES

Settings Tab Creation(Front End & Backend Setup) SETTINGS CREATION

NTA-24 4 KP

Personal Info in Settings SETTINGS CREATION

NTA-25 3 A

Account Info and Contact Creation SETTINGS CREATION

NTA-26 2 V

DONE 6 ISSUES

Create a navigation bar with search DASHBOARD CREATION

NTA-13 4 D

Dashboard Backend DASHBOARD CREATION

NTA-15 4 V

News feed Filter (Following tab Creation) FILTER TAB (FOLLOWING )

NTA-16 3 KP

## Sprint 4:

Does your team need more from Jira? Get a free trial of our Standard plan.

Projects / News Tracker Application

Backlog

KP

A

D

V

Epic

Insights

NTA Sprint 4 14 Nov – 19 Nov (4 issues)

0200

Start sprint

...

Bug Fixes and optimization

NTA-35 Search Optimization

5

IN PROGRESS

A

NTA-36 Following Tab updation

5

IN PROGRESS

KP

NTA-37 UI Fixes

5

IN PROGRESS

D

NTA-38 Databases Updation

5

IN PROGRESS

V

+ Create issue

Does your team need more from Jira? Get a free trial of our Standard plan.

Projects / News Tracker Application

NTA Sprint 4

Bug Fixes and optimization

KP

D

V

A

Epic

0 days remaining

Complete sprint

...

GROUP BY

None

Insights

TO DO

IN PROGRESS 2 ISSUES

DONE 2 ISSUES

+

UI Fixes

NTA-37

5

D

Databases Updation

NTA-38

5

V

Search Optimization

NTA-35

5

A

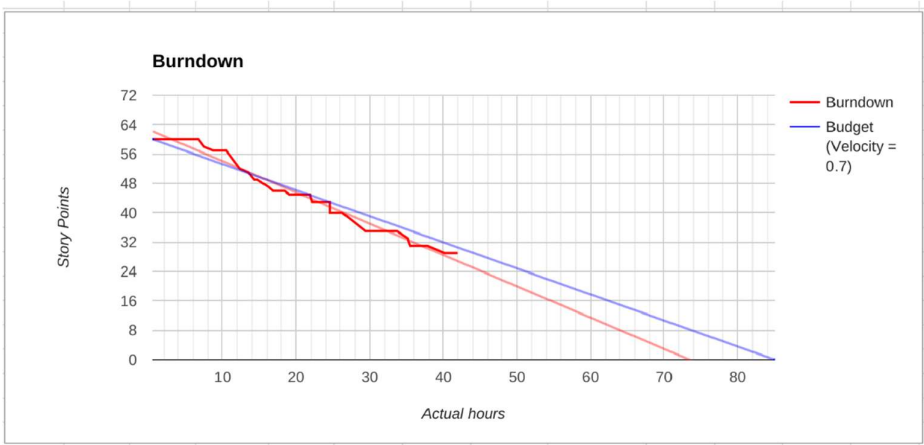
Following Tab updation

NTA-36

5

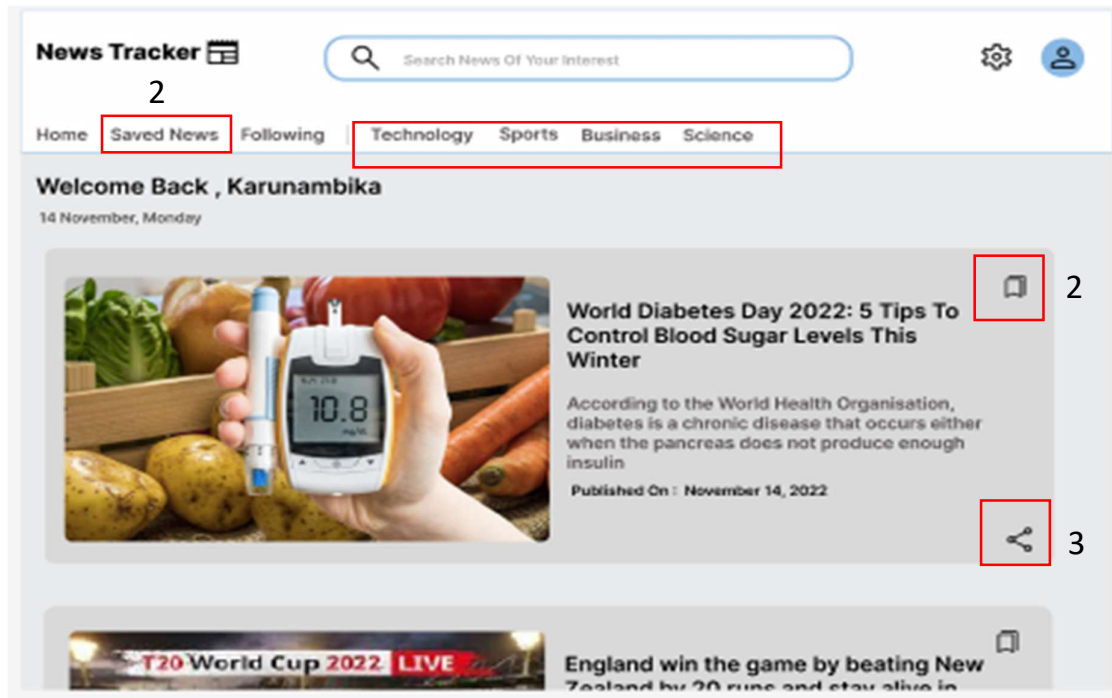
KP

## Burndown Report:

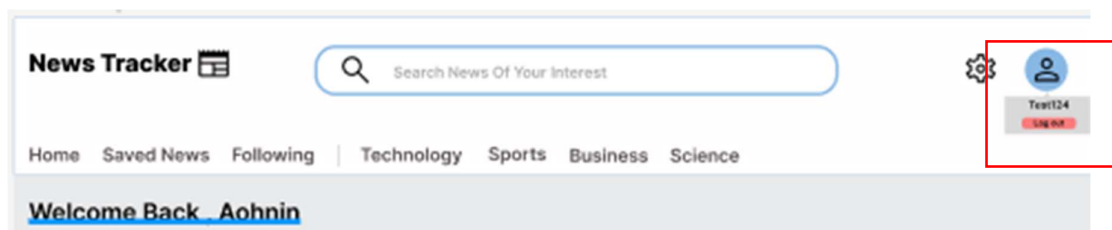


## 7. CODING & SOLUTIONING

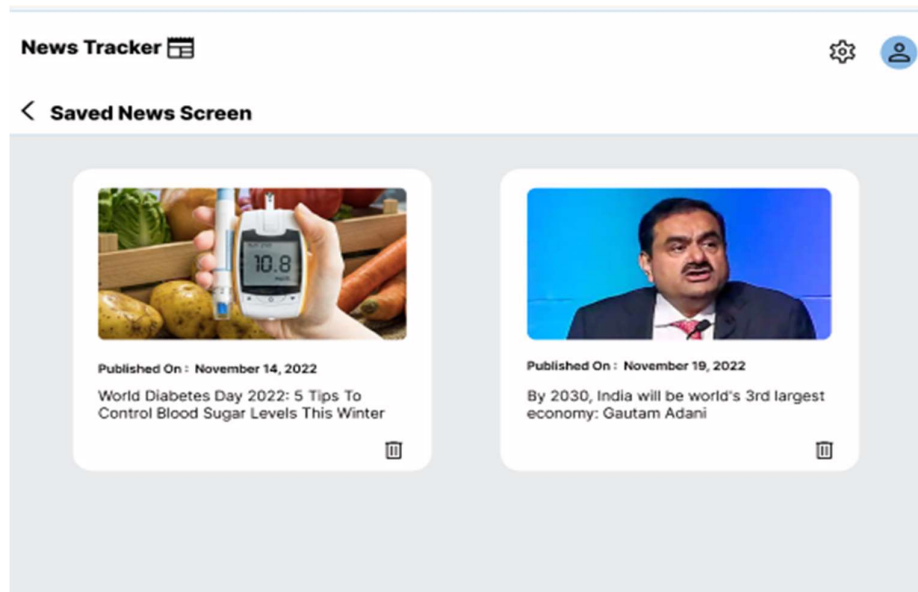
### 7.1 Feature 1:



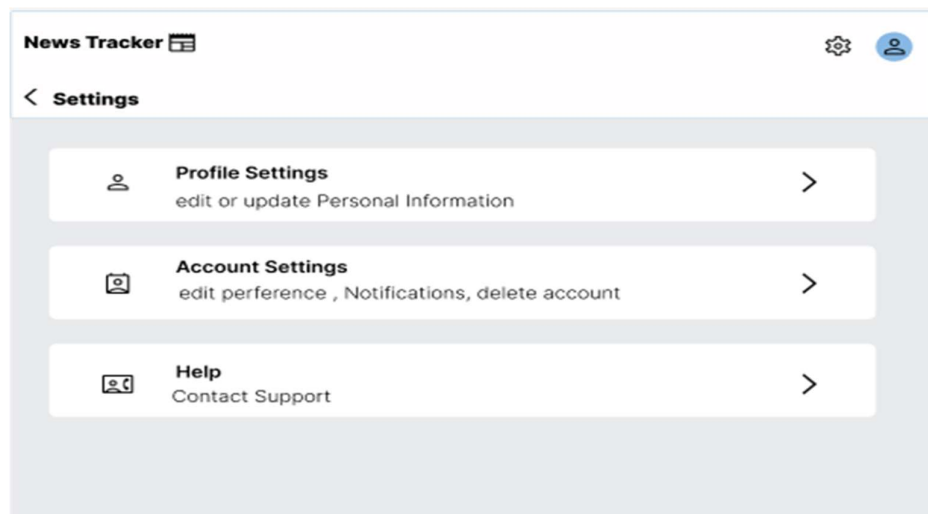
1. The dashboard is designed in way that no distractive items are displayed to the user. The user will see only the news feeds from areas of market they are following
2. The other feature is that the user can save(bookmark) the news of their interest so that they can view it later
3. User can also share the link of the news that seems interesting to them
4. User can navigate to the news feeds of their news from navioation bar



## Saved News Tab:



## Settings Screen:

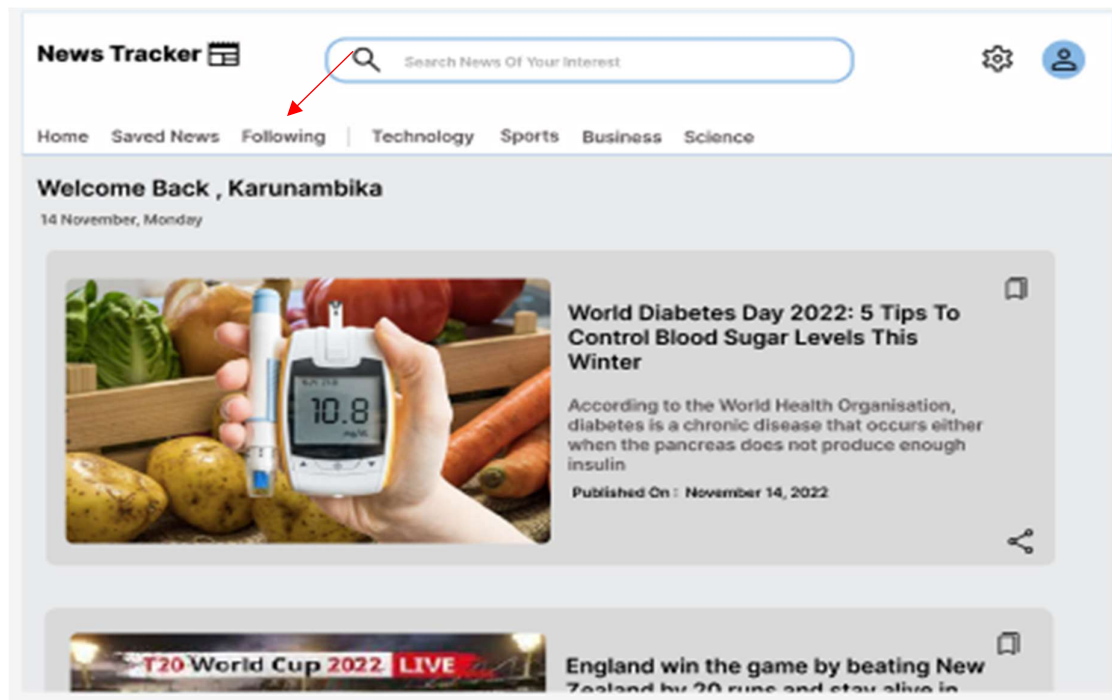


1. The user can update their profile information easily from the settings
2. Account Settings can be used to update preferences, Notifications and Account Deletion
3. Help option can be used by the user to contact the system admins when there is issue

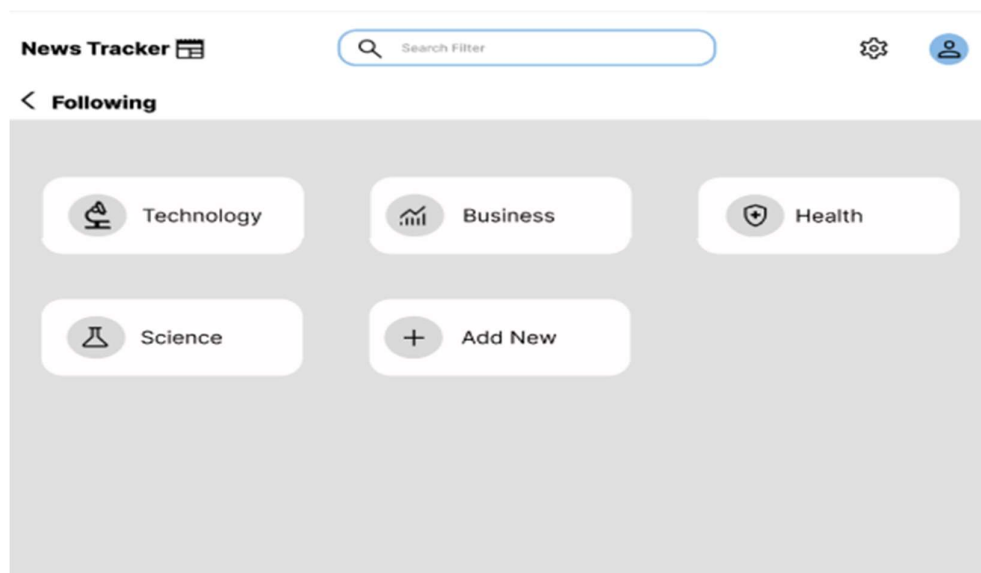
## 7.2 Feature 2:

### Following Tab

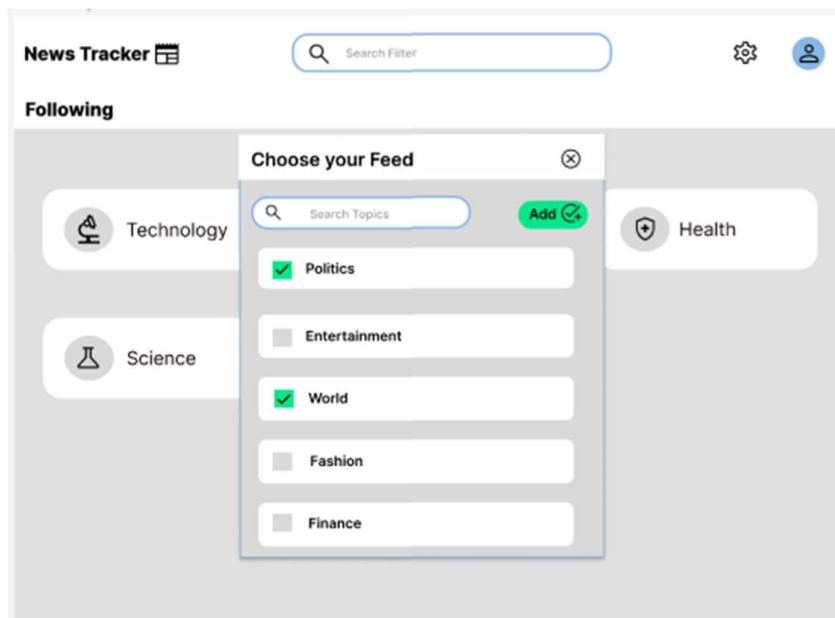
The main objective of the application is to display the news based on user's area of Interest so that user get focused and less distractive feed which in turn saves user's time



### Following Screen



### Adding news item in following



This feature helps the user to select the area they interested to see the daily updates from so that they get quick peek of the latest happenings on that day and stay update

This allow the user to feel that are have a sense of control over the application which result in great user interaction

## 8.Acceptance Testing

### UAT Execution & Report Submission

#### 1.Purpose of Document

The purpose of this document is to briefly explain the test coverage and open issues of the News Tracker Application project at the time of the release to User Acceptance Testing (UAT).

#### 2.Defect Analysis

This report shows the number of resolved or closed bugs at each security level, and how they were resolved

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
<b>By Design</b>	10	4	3	3	20
<b>Duplicate</b>	1	0	3	0	4
<b>External</b>	2	3	0	1	6
<b>Fixed</b>	11	2	4	20	37
<b>Not Reproduced</b>	0	0	1	0	1
<b>Skipped</b>	0	0	2	1	3
<b>Won't Fix</b>	0	5	1	1	7
<b>Totals</b>	24	14	13	26	77

#### 3.Test Case Analysis

This report shows the number of test cases that have passed, failed and untested

Section	Total Cases	Not Tested	Fail	Pass
<b>Print Engine</b>	7	0	0	7
<b>Client Application</b>	58	0	0	58
<b>Security</b>	2	0	0	2
<b>Outsource Shipping</b>	7	0	0	7
<b>Exception Reporting</b>	4	0	0	4
<b>Final Report Output</b>	9	0	0	9
<b>Version Control</b>	3	0	0	



## User Acceptance Settings:

Test Case ID	Feature Type	Composes	Test Scenario	Steps to Execute	Test Data	Expected Result	Actual Result	Status	Comments	TC for Bug ID	Executed By
LoginPage_T_C_001	Functional	Home Page	Verify user is able to see the Login/Sign up popup when user clicked on my account better.	1.Enter URL and click go. 2.Click on My Account drop-down button. 3.Verify login/Signu p popup displayed or not.		Login/Signup pop up should display.	Login/Signup pop up should display.	Pass			Karunambika
LoginPage_T_C_002	UI	Home Page	Verify the UI elements is Login/Sign up popup.	1.Enter URL and click go. 2.Click on My Account drop-down button. 3.Verify login/Signu p popup with below UI elements: a.email text box. b.password text box.	Username: dharshini@gmail.com password: Testing12	Application should show below UI elements: a.email text box b.password C.Sign with Google	Application should show below UI elements: a.email text box b.password C.Sign with Google	Fail		1234 Aashwin Mistiksha	
LoginPage_T_C_003	Functional	Home Page	Verify user is able to log into application with valid credentials.	c.Login button. d.New customer? Create account link. e.Last password? Recovery password link. f.Enter URL and click go. 3.Click on My account drop-down button. 3.Enter Valid username/ email in Email text box. 4.Enter valid password	Username: dharshini@gmail.com password: Testing12	Sign Up for New User	Sign Up for New User	Pass			Dharshini
LoginPage_T_C_004	Functional	Login Page	Verify user is able to log into application with valid credentials.	In password text box. 5.Click on Login button. f.Enter URL and click go. 3.Click on My account drop-down button. 3.Enter Valid username/ email in Email text box. 4.Enter valid password	Username: dharshini@gmail.com password: Testing12	Login in Successfully for Verified Users	Login in Successfully for Verified Users	Pass			Monisha
LoginPage_T_C_005	Functional	Login Page	Verify user is able to log into application with valid credentials.	In password text box. 5.Click on Login button.	Username: dharshini@gmail.com password: Testing12	Login in Successfully for Verified Users	Login in Successfully for Verified Users	Pass			Aashwin Mistiksha
HomePage_T_C_006	Functional	Home Page	Verify whether the bookmark option is working	Enter URL and click go 2.Click on My account drop-down button. 3.Enter Valid username/	Username: dharshini@gmail.com password: Testing12	Bookmark Working properly so that news is saved	Bookmark Working properly so that news is saved	Pass			Dharshini
HomePage_T_C_007	Functional	Home Page	Verify the news feed are based on the filter selected	In home ,click following and check wheather the same category news are displayed	Username: dharshini@gmail.com password: Testing12	Displaying of news based on filter selected	Displaying of news based on filter selected	Pass			Karunambika
HomePage_T_C_008	Functional	Home Page	Verify the share option is work for news feeds	After Logged in ,Click share option in any and verify	Username: dharshini@gmail.com password: Testing12	Share option working properly	Share option working properly	Pass	should be optimized even more		Karunambika
Settings_T_C_009	Functional	Settings	Verify whether the setting is working properly and information can be edited and up to date	After Login,Click setting in home and check the personal information,Account information,Contact support are working properly	Username: dharshini@gmail.com password: Testing12	Proper working of Settingd	Proper working of Settingd	Pass			Aashwin Mistiksha
Following_T_C_010	Functional	Following Page	Verify whether the Filter selected by user are displayed	After Logged in,Click following option,2)verify selected filter are displayed and working	Username: dharshini@gmail.com password: Testing12	Filter tab workinf properly	Filter tab workinf properly	Pass			Monisha
Following_T_C_011	Functional	Following Page	Verify whether the area of interests are added and removed	After Logged En,1) Click the 'following' option,2)Click Add new 3)Check the option you want and they should be added in main screen	Username: dharshini@gmail.com password: Testing12	Addition and Deletion of the select area	Addition and Deletion of the select area	Pass			Monisha
SavedNews_T_C_012	Functional	Saved News Pages	Verify whether the bookmarked news are displayed in saved news page	After Logged En,1) Click the 'saved news' option 2)verify news that bookmarked are saved	Username: dharshini@gmail.com password: Testing12	Displaying of save news	Displaying of save news	Pass	should be optimized even more		Aashwin Mistiksha
SavedNews_T_C_013	Functional	Saved News Pages	Verify whether the saved news can be deleted	After Logged En,1) Click the 'saved news' option 2)verify the saved news can be deleted	Username: dharshini@gmail.com password: Testing12	Deletion of saved news	Deletion of saved news	Pass	Sometimes there is glitch		Monisha

**9.RESULTS:**

**9.1 Performance metrics**

**Sign In Page**

News Tracker

Sign Up

SIGN IN

Email or UserName

Password

Forget Password?

Sign In

or

Login with Google

**Sign Up Page:**

News Tracker

Sign In

SIGN UP

UserName

Email

Password

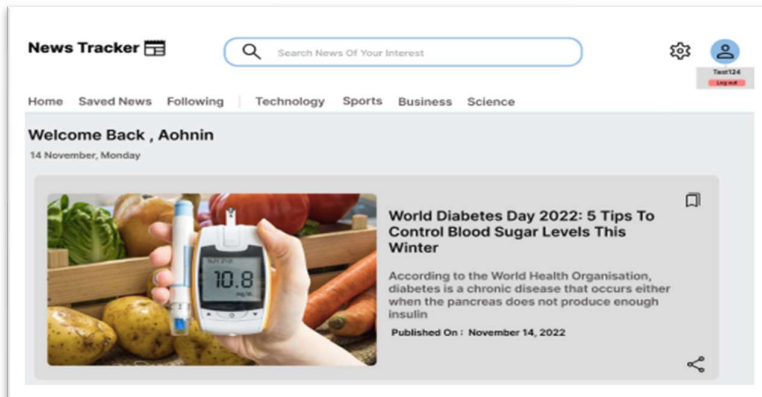
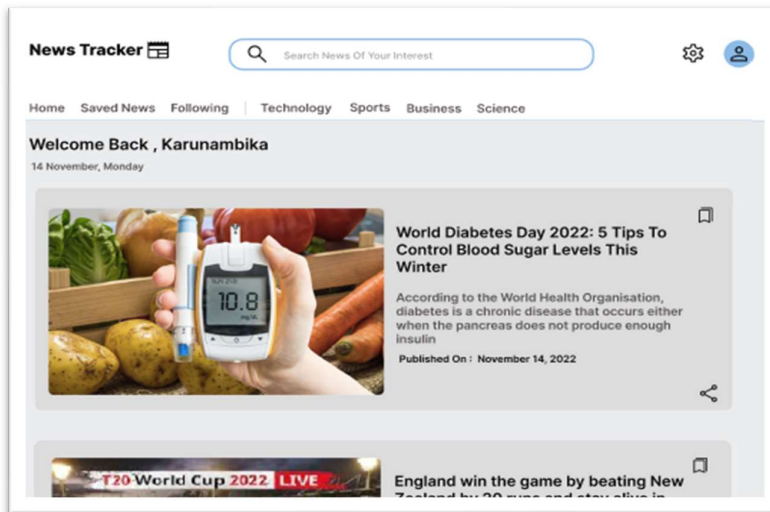
Confirm Password

Sign Up

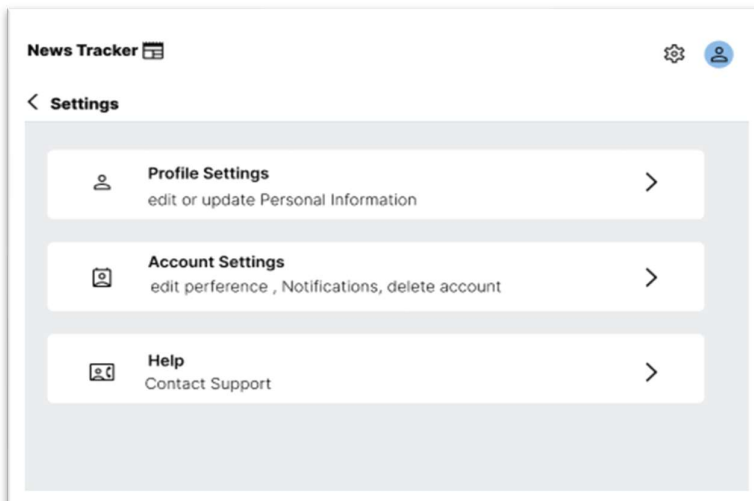
or

Login with Google

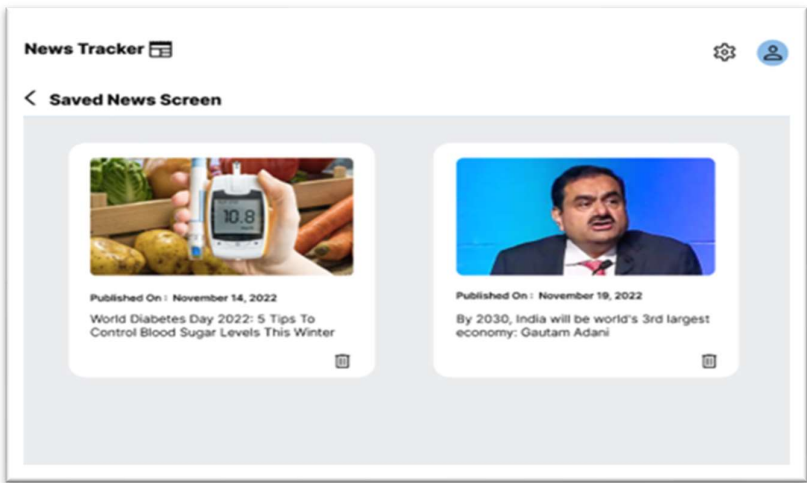
## Home Page:



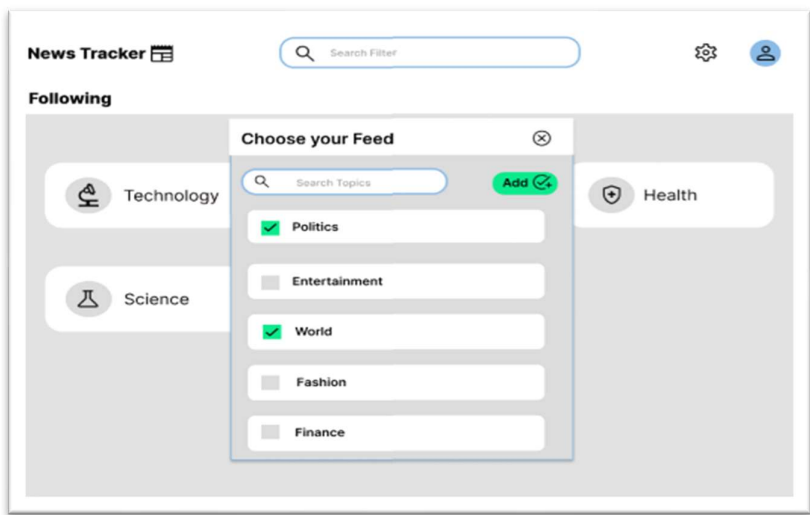
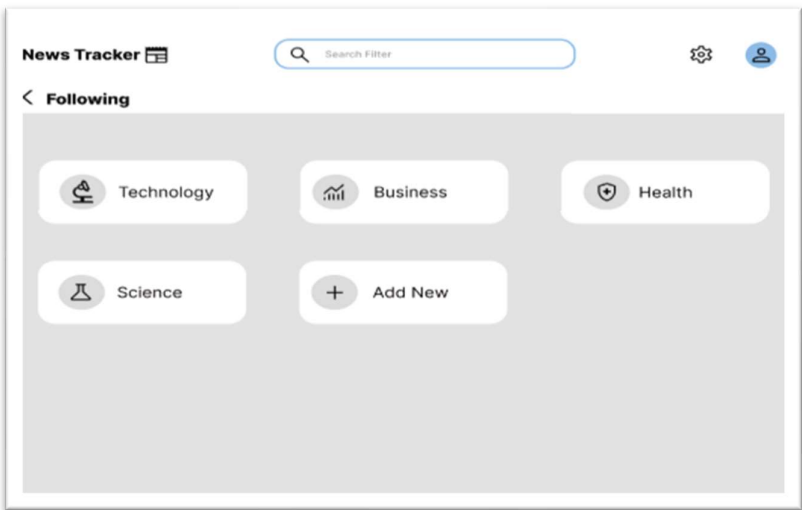
## Settings Page:



**Saved News Tab:**



**Following Page:**



## **10.Advantages and Disadvantages:**

### **Advantages:**

1. The system will help the user to get the focused news feed of their choice
2. Less Distractive with no ads
3. Available 24/7 with extensive customer support
4. User can bookmark the interested news to view later
5. User can share the news to people which they need

### **Disadvantages:**

1. Same news which is published in different websites can be displayed.
2. Delay response of news api can make the news collapse.

## **11.Conclusion:**

Thus the news tracker application project in Flask Framework using IBM CLOUD is tested, verified and executed successfully

## **12.Future Scope**

In the near future,

1. We planned to enhance the application by reducing fake news using algorithms and displaying of repeated news
2. We will try to implement this project in large scale which will be helpful and used by all the people.

## **13.APPENDIX**

```
body
{
    padding: 0;
    margin: 0;
    background: black;
    font-family: 'Abel', sans-serif !important;
}
```

```
ul {
    padding: 0;
    list-style-type: none;
    margin: auto;
}
```

```
span {
    color:whitesmoke
}
```

```
.messages {
    padding: 1rem;
    border-radius: 1rem;
    display:flex;
    justify-content: center;
    align-items: center;
    text-align:center;
}
```

```
.messages .success {
    background-color: rgba(0, 225, 0, 0.1);
    font-size:2rem;
    border-radius:1rem;
```

```
padding-right: 1rem;
padding-left: 1rem;
}

.messages .danger {
  background-color: rgba(255, 0, 0, 0.1);
  font-size: 2rem;
  border-radius: 1rem;
  padding-right: 1rem;
  padding-left: 1rem;
}

.home-body {
  display: flex;
  justify-content: center;
}

#indentation {
  margin-bottom: 100px;
  margin-right: 0px;
}

@media only screen and (max-width: 576px) {
  ul {
    list-style-type: none;
  }
  #stories {
    margin-left: 40px;
  }
}

/* card styles for each news story */
.no-stories {
```

```
    /* padding:2rem; */
    margin-left:2rem;
    margin-right:2rem;
    text-align:center;
    display:flex;
}

.row {
    margin: auto;
}

.container {
    background: #242424;
    border-radius: 30px;
    margin-bottom:2rem;
}

.card {
    justify-content: center;
    margin: auto;
    border-radius: 10px;
    transition-duration: 0.5s;
}

.card:hover {
    border-width: 1px;
    background: #ade7ff;
    margin: auto;
    box-shadow: 1px 1px 10px 10px #95eeee;
}

.card-body {
    background: #3d3d3d;
    border-radius: 10px;
```



```
    justify-content: center;
    transition-duration: 0.5s;
}
```

```
.card-body:hover {
    background: rgb(65, 65, 65)
}
```

```
.results {
    color:whitesmoke;
    margin:auto;
}
```

```
#date {
    color:gainsboro;
}
```

```
#image {
    margin-bottom: 10px;
}
```

/\* more specific card styles to adapt to the behavior of mobile devices\*/

```
@media only screen and (max-width: 768px) {
    #left-b{
        margin-bottom: 10px;
        order: 1;
        padding-right: 0px;
    }
    #image {
        order: 0;
    }
}
```

```

        width: 100%;
    }
    #right-b{
        margin-bottom: 10px;
        order: 1;
        padding-left:0px;
    }

}

@media only screen and (max-width: 576px) {
    .container {
        justify-content: center;
    }
    #image {
        margin-top: -20px;
        order:0;
    }
    #search{
        display:none;
    }
}

/* form styling */

h1 {
    color:whitesmoke;
    font-family: 'Times New Roman', Times, serif;
}

.form {
    color: whitesmoke;
}

```

```
.form-alert {
    margin: 20px;
}

.submit-b {
    margin-bottom:20px;
}

.demo-user {
    text-align:center;
    margin-bottom:20px;
}

#content {
    color:white;
    margin-top: 5px;
}

.headline {
    margin-top: 12px;
    color:gainsboro;
}

.headline:hover {
    text-decoration: none;
    color: #a3a3a3;
    border-radius: 40px;
}

/* navbar styles*/
```

```
.navbar {  
    background-color: black;  
    color:rgb(65, 65, 65);  
}
```

```
.close {  
    display: inline-block;  
    font-size: 30px;  
    font-weight: 600;  
}
```

```
.navbar-toggler {  
    margin-right:10px;  
}
```

```
.nav-item {  
    margin:auto;  
    color: #f2f2f2;  
    font-family: 'Times New Roman', Times, serif;  
    padding-left: 0px;  
    text-decoration: none;  
    font-size: 17px;  
    transition-duration: 0.25s;  
    font-size:16px;  
}
```

```
.nav-item:hover {  
    background-color:rgb(119, 119, 119) ;  
    color: black;  
    text-decoration: none;  
}
```

```
.navbar-nav{
```

```
margin:0px;
}
```

```
#dropdown-item {
display: inline;
text-decoration: none;
padding-right:10px;
}
```

```
.query-link {
display: inline;
text-decoration: none;
color:#3d3d3d;
}
```

```
#search{
margin-right: 20px;
}
```

```
@media only screen and (max-width: 768px) {
#search{
display:none;
order:0;
}
}
```

```
#nav-msg-spc {
margin-top: 100px;
}
```

```
/* Home-Page */
```

```
#home {  
    margin: auto;  
    margin-top: 100px;  
    padding-right: 0px;  
    padding-left: 0px;  
    padding-top: 2rem;  
    padding-bottom: 2rem;  
}
```

```
h4 {  
    /*used throughout app as headlines*/  
    color: white;  
    margin: auto;  
}
```

```
h5 {  
    color: white;  
    margin: auto;  
}
```

```
p {  
    color: whitesmoke;  
}
```

```
/* Right (category-slideshow)*/
```

```
#slideshows {  
    padding: 0px;  
}
```

```
#slideshow {  
    margin:auto;  
    margin-bottom:15px;  
    padding:0px;  
}
```

```
.d-block {  
    /*image*/  
    width: 250px;  
    height: 175px;  
    object-fit: contain  
}
```

```
#slide-counter {  
    padding:0px;  
}
```

```
h3 a{  
    text-decoration: none;  
    color:white  
}
```

```
/*Left*/
```

```
.col-md-7 {  
    /* column left for overall container, contains info */  
    padding:0px;  
}
```

```
.announce {  
    /*div for columns in cards*/  
    padding:3px;  
    margin:3px;
```

```
}
```

```
.heading {  
  /*larger header div that includes descriptive text*/  
  margin: 10px;  
  text-align: center;  
}
```

```
.heading h4 {  
  /*eg, non-user, user, upcoming*/  
  font-size: 2rem;  
  padding-top: 1rem;  
  padding-bottom:.5rem;  
}
```

```
.carousel-caption {  
  text-align:justify;  
  padding:0px;  
  background:rgba(0,0,0,0.4);  
  font-size: 1.25vw;  
  margin-bottom:2rem;  
}
```

```
.category {  
  padding:0.5rem;  
  color:white;  
}
```

```
.category:hover {  
  text-decoration: none;  
  color: #a3a3a3;  
}
```



```
@media only screen and (max-width: 768px) {  
  #slideshows{  
    padding-top: 1rem;  
  }  
  .carousel-caption {  
    text-align:justify;  
    padding:0px;  
    background:rgba(0,0,0,0.4);  
    font-size: 2vw;  
    margin-bottom:2rem;  
  }  
  .caption {  
    text-align:justify;  
  }  
}
```

```
const body = document.querySelector("body");
```

```
const homeAdd = function (arg) {  
  arg.classList.add("home-body");  
}
```

//axios requests that reach our server to run SA on said story and show result inside button

```
const saButtons = document.querySelectorAll(".sa-button");  
for (let button of saButtons) {  
  button.addEventListener("click", async function (evt) {  
    evt.preventDefault();  
    const text = button.firstChild;  
    const input = text.nextSibling;  
    const value = input.value;  
    const storyID = button.getAttribute('data-story')
```

```

    if (value === "Get Polarity") {
      try {
        const req = await axios.post(`/story/${storyID}/polarity`);
        const resp = req.data.response;
        input.value = resp;
      } catch (error) {
        console.error(error.response.data)
      }
    }
    else if (value === "Get Subjectivity") {
      const req = await axios.post(`/story/${storyID}/subjectivity`);
      const resp = req.data.response;
      input.value = resp;
    }
  })
}

```

```

const deleteQueryButtons = document.querySelectorAll(".close")
for (let button of deleteQueryButtons) {
  button.addEventListener("click", async function (evt) {
    console.log("CLICKEDDDDD")
    const queryID = button.getAttribute('data-query')
    console.log(queryID)
    const req = await axios.post(`/user/${queryID}/delete`);
    const resp = req.data.response;
    button.value = resp;
  })
}

```

//Replace broken images with default image

```
const default_avatar = 'https://secure.gravatar.com/avatar?d=wavatar';
```

```
window.addEventListener("load", event => {  
    let images = document.querySelectorAll('img');  
    for (let image of images) {  
        let isLoading = image.complete && image.naturalHeight !== 0;  
        if (!isLoading) {  
            image.src = default_avatar;  
        }  
    }  
});  
  
// Source: https://www.techiedelight.com/replace-broken-images-with-javascript/
```

**# flask, config, and env imports**

**from dotenv import load\_dotenv**

**load\_dotenv()**

**from flask import Flask**

**app = Flask(\_\_name\_\_)**

**if app.config["ENV"] == "production":**

**app.config.from\_object('config.ProductionConfig')**

**elif app.config["ENV"] == "development":**

**app.config.from\_object('config.DevelopmentConfig')**

**else:**

**app.config.from\_object('config.TestingConfig')**

**#server-side session**

**CURR\_USER\_KEY = "curr\_user"**

**from flask\_session import Session**

```
server_session = Session(app)
```

```
#db set-up
```

```
from models import connect_db, db
```

```
connect_db(app)
```

```
db.create_all()
```

```
#view imports
```

```
from views import sa_views, site_views, api
```

```
#todo: write app.before_request middleware for security, include here
```

```
import os
```

```
import redis
```

```
class Config(object):
```

```
    DEBUG = False
```

```
    TESTING = False
```

```
    SQLALCHEMY_TRACK_MODIFICATIONS = False
```

```
    SQLALCHEMY_ECHO = True
```

```
    API_KEY = os.getenv("API_KEY")
```

```
    SECRET_KEY = os.getenv("SECRET_KEY")
```

```
    SESSION_TYPE = 'redis'
```

```
    SESSION_USE_SIGNER = True
```

```
    SESSION_PERMANENT = False
```

```
class DevelopmentConfig(Config):
```

```
    DEBUG = True
```

```
    SQLALCHEMY_DATABASE_URI = 'postgresql:///news-tracker7'
```

```
    SESSION_REDIS = redis.from_url('redis://localhost:6379')
```

```
class ProductionConfig(Config):
```

```
    SQLALCHEMY_DATABASE_URI = os.getenv("DATABASE_URL")
```

```
    SESSION_REDIS = redis.from_url(os.getenv('REDIS_URL', 'redis://localhost:6379'))
```

#2nd argument for local db is necessary for some reason because the production version keeps getting called in development.

```
class TestingConfig(Config):
```

```
    TESTING = True
```

```
    SQLALCHEMY_DATABASE_URI = 'postgresql:///newstracker-test'
```

```
    SQLALCHEMY_ECHO = False
```

```
    DEBUG_TB_HOSTS = ['dont-show-debug-toolbar']
```

```
    WTF_CSRF_ENABLED = False
```

**GITHUB LINK:** <https://github.com/IBM-EPBL/IBM-Project-37120-1660300572/>