



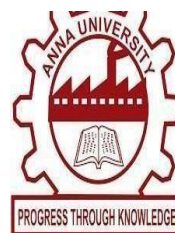
MAHENDRA INSTITUTE OF TECHNOLOGY

(AUTONOMOUS)

Mahendhirapuri, Mallasamudram,

Namakkal- 637503

Office of the Controller of Examinations



NEWS TRACKER APPLICATION

APROJECT REPORT

Submitted by

PAVITHRA V (611619104080)

PRABHA SRI R (611619104081)

PRIYADHARSHINI V (611619104082)

SANDHIYA SHREE V (611619104090)

*In partial fulfilment for the award of the degree
of*

BACHELOR OF ENGINEERING

In

COMPUTER SCIENCE AND ENGINEERING

**MAHENDRA INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)**

MAHENDHIRAPURI, MALLASAMUDRAM, NAMAKKAL- 637 503

MAHENDRA INSTITUTE OF TECHNOLOGY

(Autonomous)

Mahendhirapuri, Mallasamudram, Namakkal DT- 637 503

Department of Computer Science and Engineering

BONAFIDE CERTIFICATE

Certified that this project report “**NEWS TRACKER APPLICATION**” is the Bonafide work of our team “**PRABHA SRI R (611619104081), PAVITHRA V (611619104080), PRIYADHARSHINI V (611619104082), SANDHIYA SHREE V (611619104090)**” who carried out the project work under my supervision.

.....
SIGNATURE

Dr. J. STANLY

JAYAPRAKASH HEAD OF

THE DEPARTMENT

Professor

Department of CSE

Mahendra Institute Technology

Namakkal - 637 503

.....
SIGNATURE

Mr.K.MEIYALAKAN

SUPERVISOR

Assistant professor

Department of CSE

Mahendra Institute of Technology

Namakkal - 637 503

Submitted for the end semester viva voce examination held on

.....
Internal Examiner

.....
External Examiner

MAHENDRA INSTITUTE OF TECHNOLOGY

(Autonomous)

Mahendhirapuri, Mallasamudram, Namakkal DT -637 503

Department of Computer Science and Engineering

CERTIFICATE OF PROJECT APPROVAL

This is to certify that the Project report titled “**News Tracker Application**” is the approved record of work done by “**Prabha Sri R(611619104080), Pavithra V (611619104081), Priyadharshini V (611619104082), Sandhiya shree V (611619104090)**” in partial fulfillment for the award of the Degree of B.E Computer Science and Engineering during the academic year 2019-2023.

SUPERVISOR

HEAD OF THE DEPARTMENT

Date:

(Signature with seal)

Submitted for the end semester viva voce examination held on _____

Internal Examiner

External Examiner

ACKNOWLEDGEMENT

We would like to take this opportunity to say our thanks to the people who have helped us make this project a reality.

We wish to express our sincere thanks to our honorable chairman, **Shri. M.G.Bharath Kumar B.Ed., M.A., M.I.S.T.E.**, of our Educational trust, Kalipatty and the Managing Directors **Er.Ba.Mahendiran B.E.**, and **Er.MahaAjay Prasad B.E.**, providing an extraordinary infrastructure.

We would like to express our sincere thanks to **Dr.T.Elango M.E., Ph.D.**, the principal of our college, for their kind encouragement and blessings to do this project.

We also thank **Dr.J.Stanly Jayaprakash M.E., Ph.D.**, Head of the Department, Department of Computer Science and Engineering for the encouragement, valuable suggestions and support in doing this project.

We would like to thank our internal guide **Mrs.C.Gayathri.M.E,(Ph.D).**, Department of Computer Science and Engineering for the kind co-operative and support rendered in making our project a success.

We would like to say our sincere thanks to all other faculties, Department of Computer Science and Engineering for their active and kind guidance and advice for our project.

Above all we would like to express my sincere gratitude and thanks to our parents for their valuable comments and suggestions for making success.

ABSTRACT

Everyone has the right to freedom of speech. However, this right is being misused to differentiate and attack others, physically or verbally, in the name of free speech. This discrimination is known as hate speech. Hate speech can be well-defined as language used to express hate towards a person or a group of people based on characteristics such as race, religion, ethnicity, gender, nationality, disability and sexual orientation. The increasing usage of social sites and information sharing has specified major benefits to humanity. However, this has also assumed rise to a variety of challenges including the spreading and sharing of hate speech messages. Thus, to solve this emerging issue in social media sites, recent studies employed a variety of machine learning and deep learning algorithms with text mining algorithm to automatically detect the hate speech messages on real time datasets. Hence, the aim of this Project is to analyses the comments on social networks using named as Back propagation neural network algorithm. Using NLP technique, can extract the keywords from user generated content and implement Back Propagation neural network to classify the text whether it is positive or negative. If it is negative means, automatically block the comments as per user wish and also block the friends based on pre-defined threshold values. Experimental results shows that the proposed framework implemented in real time social network site with improved notification.

TABLE OF FIGURES

1. INTRODUCTION
 - 1.1 Project Overview
 - 1.2 Purpose
2. LITERATURE SURVEY
 - 2.1 Existing problem
 - 2.2 References
 - 2.3 Problem Statement Definition
3. IDEATION & PROPOSED SOLUTION
 - 3.1 Empathy Map Canvas
 - 3.2 Ideation & Brainstorming
 - 3.3 Proposed Solution
 - 3.4 Problem Solution fit
4. REQUIREMENT ANALYSIS
 - 4.1 Functional requirement
 - 4.2 Non-Functional requirements
5. PROJECT DESIGN
 - 5.1 Data Flow Diagrams
 - 5.2 Solution & Technical Architecture
 - 5.3 User Stories
6. PROJECT PLANNING & SCHEDULING
 - 6.1 Sprint Planning & Estimation
 - 6.2 Sprint Delivery Schedule
 - 6.3 Reports from JIRA
7. CODING & SOLUTIONING
 - 7.1 Feature
8. TESTING
 - 8.1 Test Cases
 - 8.2 User Acceptance Testing
9. RESULTS
10. ADVANTAGES & DISADVANTAGES
11. CONCLUSION
12. FUTURE SCOPE
13. APPENDIX (Source Code, GitHub & Project Demo Link)

1.INTRODUCTION

Nowadays, the news media are subject to the social scrutiny because of the lack of credibility, the manipulative media, the misinformation campaigns, and the propagation of fake news point out that the main difference between fake news and true news relies on lack editorial norms and processes that ensure the accuracy and credibility of the information. Thus, to arrange a way that allows guaranteeing these editorial processes (or at least part of them) can suppose abig step in the fight against the above-mentioned issues. To track the evolution of the news reports and the relevant data and information it contains as they change over time, and therefore to trace how the related news evolves, constitute other instruments to face the previous issues. This is not only useful for end readers but for fact-checking agencies and those tools that perform automatic indexing and extraction of relevant information of news. Once the information has been verified and fact-checked, these tools need a way to guarantee that the extracted data have not changed.

1.1 PROJECT OVERVIEW

As news is increasingly accessed on smartphones and tablets, the need for personalizing news app interactions is apparent. We report a series of three studies addressing key issues in the development of adaptive news app interfaces. We first surveyed users' news reading preferences and behaviours; analysis revealed three primary types of reader. We then implemented and deployed an Android news app that logs users' interactions with the app. We used the logs to train a classifier and showed that it is able to reliably recognise a user according to their reader type. Finally, we evaluated alternative, adaptive user interfaces for each reader type. The evaluation demonstrates the differential benefitof the adaptation for different users of the news app and the feasibility of adaptive interfaces for news apps.

1.2 PURPOSE

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 whatmarket 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 aboutIndices, Commodities, Currencies, Future Rates, Bonds, etc.... as on official websites.

Project Workflow:

1. The user interacts with the application.
2. Registers by giving the details.
3. Integrate the application with news APIs and store the data in the database.
4. The database will have all the details and the user can search the news by using a searchbar.

2. LITERATURE SURVEY

2.1 Existing problem

News is one of the primary sources of gaining information about the actions and events that happen all around. It may be an event that happened in the past, happening now or going to happen in the future. In the present days where there is a rapid increase in the development and adaptability of technologies throughout all the demographic of people, it is necessary to provide news in such a way that it is interconnected with the current technological trends. 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.... as on official websites.

2.1 References:

Like articles, websites, blogs.

<https://www.researchgate.net/>.

<https://techvidvan.com/tutorials/android-news-app-project-source-code/> <https://www.rpublication.com/>

| S.No | Paper Title | Author(s) | Month/Year | Method/Implementation Technique(s) | Resource Link |
|------|---|--|---------------|---|---|
| 1 | Exploring mobile news reading interactions for news app personalization | Marios Constantinides, John Dowell, David Johson, Sylvain Malacria | August, 2015 | 1. Identification of news reader types 2. Interaction logging and classification study 3. Deployment and data collection 4. Predicting News readertypes 5. Adaptive UI | https://www.researchgate.net/publication/299870645_Exploring_mobile_news_reading_interactions_for_news_app_personalisation |
| 2 | Detection and Tracking in News Articles | Sagar Patel, Sanket Suthar, Sandip Patel, Neha Patel | March, 2015 | 1. Preprocessing 2. Tokenization 3. Stemming/Lemmatization 4. Vector Space Model 5. Topic tracking | https://www.researchgate.net/publication/315657099_Topic_Detection_and_Tracking_in_News_Articles |
| 3 | Following the Fed with a News Tracker | Michael William McCracken | January, 2012 | The paper is not a technical paper but is essentially a statistical paper on how should one conclude whether the data have come in stronger, weaker or as expected. This is based on the CitiGroup U.S Economic Surprise Index. | https://www.researchgate.net/publication/227438253_Following_the_Fed_with_a_News_Tracker |

| | | | | | |
|---|---|---------------------------|------------|--|---|
| 4 | An End-to-end Weaklysupervised News Aggregation Framework | Xijin Tang, Xiaohui Huang | June, 2022 | <p>The framework combines Snorkelbased weaklysupervised classification, Latent Dirichlet Allocation (LDA) topic modeling, and topic signal detection model to classify and aggregate unlabeled news texts and ultimately generate visualized results containing news categories, news topics, and temporal topic relationships. This paper uses constructed knowledge thesaurus and the Snorkel method to weakly supervise the classification of unlabeled news with no manual tagging. Subsequently, we utilize LDA to generate the topics and obtain the signal value of each topic based on the topic signal detection function. Finally, we establish the temporal topic relationships and get the visualized results of news aggregation.</p> | https://www.researchgate.net/publication/361087328_An_End-to-end_Weakly-supervised_News_Aggregation_Framework |
|---|---|---------------------------|------------|--|---|

2.3 Problem Statement Definition:

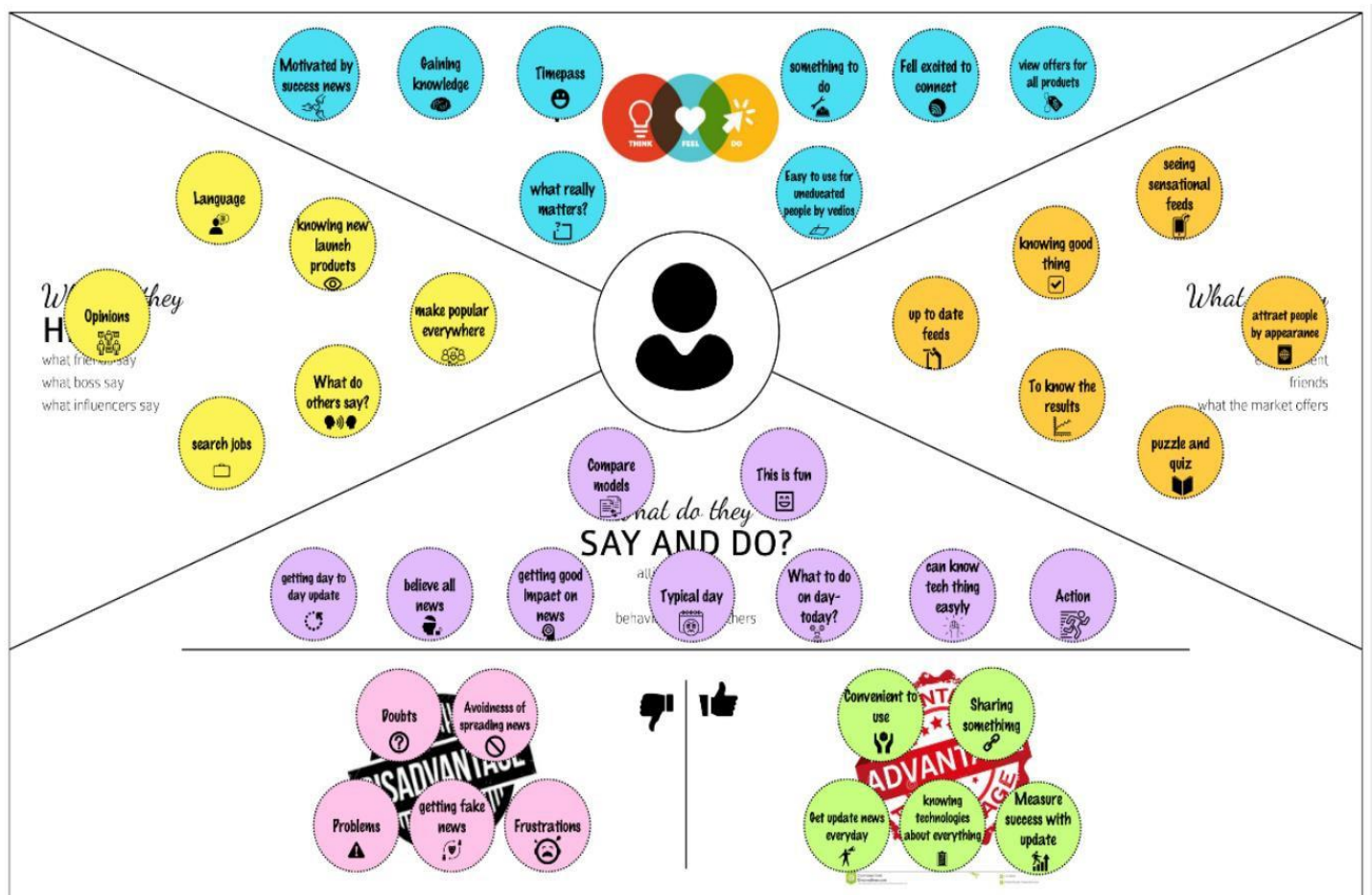
1. The user needs a way to organize the news on daily basis so that he can cope up with daily events in his tight schedule.
2. The user wants to read news only about particular topics so that he can be informed about his interest.
3. The user wants to get informed from only certified news outlets.
4. The user needs a way to search about the news on topics he wants to.
5. The user wants to know the news about his surrounding using GPS location.

3.IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas


An empathy map is a simple, easy-to-biggest visual that captures Knowledge about a user's behavior and attitudes. It is a useful tool to helps teams better understand their users.

Creating an effective solution requires understanding the true problem and the person who is experiencing it. The exercise of creating the map helps participants consider thing from the user's perspective along with his or her goals and challenges.




3.2 Ideation & Brainstorming


Template





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 collaborate

 **2-8 people** recommended

 Share template feedback

0

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.

010 minutes

1. **Team gathering**
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

2. **Set the goal**
Think about the problem you'll be focusing on solving in the brainstorming session.

3. **Learn how to use the facilitation tools**
Use the Facilitation Superpowers to run a happy and productive session.

4. **Open article**
Read the article about the problem you're trying to solve.

Open article

0

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.

05 minutes

1. **Problem statement**
Write a clear, concise statement of the problem you're trying to solve.

2. **Problem**
The user needs a way to get relevant news based on his choices so that the user does not have to spend a lot of time on searching news. News is filled with ads and spam, annoys and irritates the user and affects the user experience. Market is full of news with all categories. Users are not interested in all the categories and will be more interested with their personal choices. Traditional way of tracking news is slow and obsolete, user needs a new innovative application to track news with personal based choices. Lack of quick updates for the day results in staying behind in the trend in today's world and tracking the news regularly should be done.

3. **How might we**
Write a series of questions that start with "How might we..." and relate to the problem statement.

4. **Brainstorming**
Use the Facilitation Superpowers to run a happy and productive session.

5. **Key rules of brainstorming**
To run a smooth and productive session

8 Stay in topic. W Encourage wild ideas.
8 Defer judgment. Listen to others.
R Go for volume. R If possible, be visual.

Pavithra I/

Prajha Sil R

Priyadarsini V

Sandhya shree I/

Aesthetic
UI Design

Email
notification
functionality

Collaboration
with Google
Calendar

Listen to
podcasts

Dark mode
and light
mode UI

Message and
Email
notification of
news;

Stay
updated
with latest
news

Use social
media in
right way

Responsive
UI

Collaborating
with
government

Advertise
and market
the app

Daily and
weekly reports
on
E-mail

Clear
instructions

Posters
and
social

Media
monitoring
services

Keep
Employees
happy

Celebrating
our team
and their
achievement

Awards
and some
cash prizes

Increases
their
salaries

Storing personal
details like
address in a
secure manner

Keeping
Anonymity
among users

User
Security

Fast fixing of
bugs

GPS
tracker

Awareness
page inside
the app

User
Feedback

Keep
track of
users

Hand out
news
articles

Graupidea5i

1- e!!!!!!Sslarhg y'oojd e.as while dustes!n!ji similar or irelated mtes as: you!JJ.
In he Las.t 10 m.loo_tes,\theadhi d'!!!Stetr a sentenre-ll e Labet a dust Blbl er
tba.n :s:ic:st dey no'tes, ury and see y'!!!! and !break It **hto** small.erstb-!Jm...S-

0 2.0 mirm :.

Use,r Interface,

| | |
|-----------------------------------|--|
| <div>Aesthetic UI Design</div> | <div>Dark mode and light mode UI</div> |
| <div>R'esp!!!r!live LJl</div> | <div>Clear instructions</div> |

Core 1Fu1lcHomaHties.

| | | |
|--|--|---|
| <div>Ern!lil notifit iiMi fm:tionlil.y</div> | <div>Collaborat100 with r.oog_l'e Cslil:r:idar</div> | <div>l-151'.efl lo l)Odi::2156</div> |
| <div>ii!fe,md [11111il lil:l'!!lfiC.lti md</div> | <div>Stay updated with La ITE!WS</div> | <div>U!ie :Loc mi:tlilil n!Jht-</div> |


Marr1k.eting

| | |
|---|--|
| <div>Collaborating with government</div> | <div>Advertis:e and market the app</div> |
| <div>Daily and weekly reports on E-mail</div> | <div>Posters. and soaa.1 media marketing</div> |
| <div>Make the app, ream ril"al places</div> | <div>Media fl"lOI"11tOrlF!!!! !k!l"l!lre:i</div> |

Reward S.ystem

| | |
|---|--|
| <div>Ke p empl.s. h:!pp</div> | <div>[elir.lit'l'lg our ream and Cla!!!li' !id"!re& t!.</div> |
| <div>Awards and :some cash pi"i</div> | <div>h.c.reas,es, th@llf salaries</div> |

Securit Y"

| | |
|--|---|
| <div></div> | <div>Keeping Anonymity among user</div> |
| <div>I.lier Semuy</div> | <div>GPStraoer</div> |

MisceHam,eous.

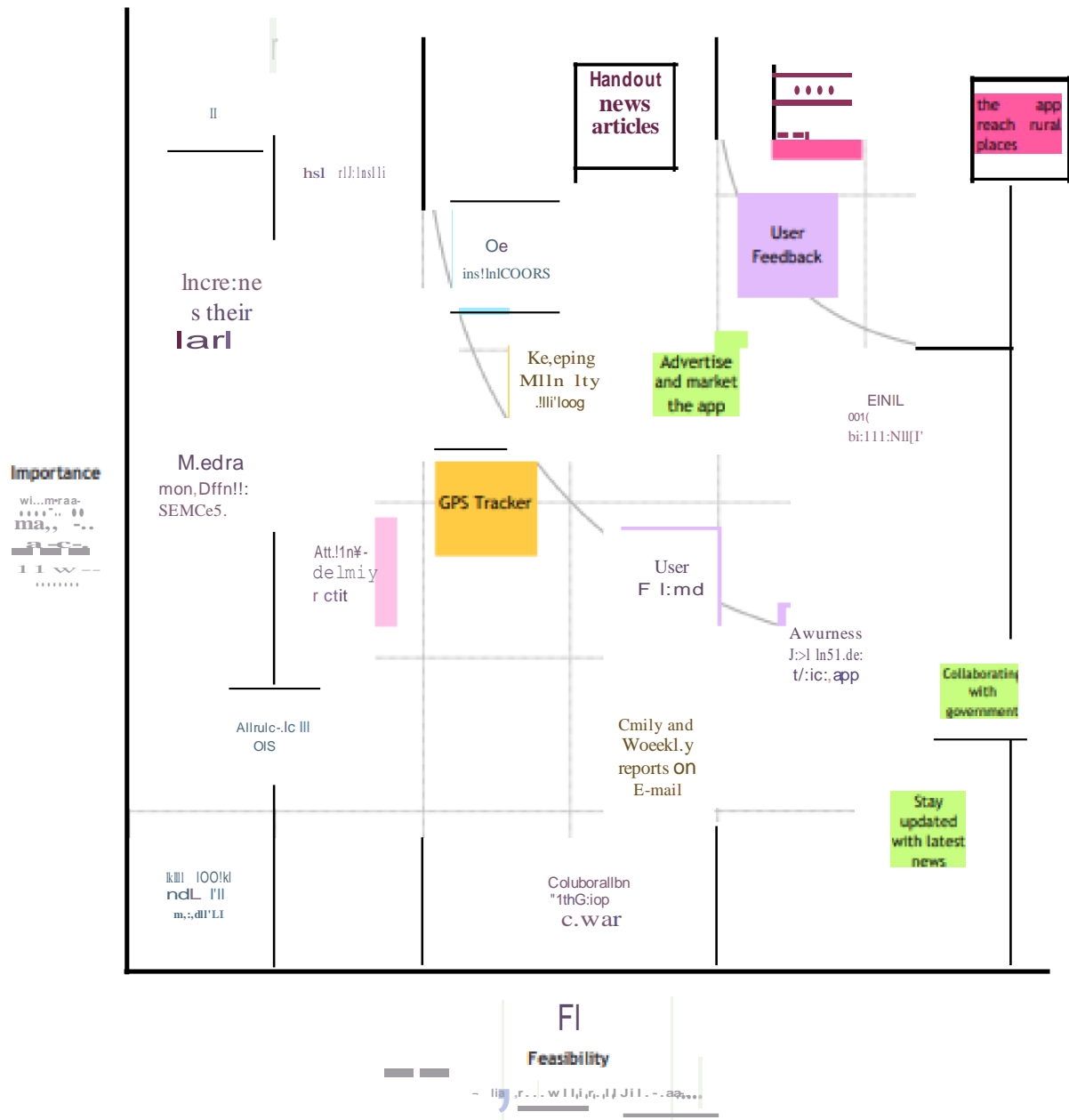
| | | |
|--------------------------------|--|-------------------------------|
| <div>Fast fixing of bugs</div> | <div>A.wa:remesli: pa:ge nside tine.a.pp</div> | <div>Use.- Feedback</div> |
| <div>I(b"adk of</div> | <div>hla:nd out 1news,artlc eJ.</div> | |

0

Prfofi:iff

'four lemi !biuld 2III be- on lhl!- s pa :!bmt M3 1 IIIIt
fmwimll **four** iden mu this,8,rd m dc:lfmlln '!!'hicb ldr.n are lmfOIIIIt md
whh:'h,3!1!-! aslbi!a.

🕒 20 minutes



C,

After you collaborate

You can export the mural as an image or pdf to share with members of your company vvho might find it helpful.

Quick add-ons

Share the mural

Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.

Export the mural

Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

Keep moving forward



Strategy blueprint

Define the components of a new idea or strategy.

Open the template ->



Customer experience journey map

Understand customer needs, motivations, and obstacles for an experience.

Open the template -->

Strengths, weaknesses, opportunities & threats

Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.

Open the template -->

Share template feedback

3.3 Proposed Solution:

| S.No. | Parameter | Description |
|-------|---|---|
| 1. | Problem Statement (Problem to be solved) | <p>There are multiple news-sharing apps used by a single user and are often spammed with notifications. There is also a lot of fake news which gets shared. A news-sharing app wants to help users find relevant and important news easily every day and also understand explicitly that the news is not fake but from proper sources. There are multiple news-sharing apps used by a single user and are often spammed with notifications. There is also a lot of fake news which gets shared. A news-sharing app wants to help users find relevant and important news easily every day and also understand explicitly that the news is not fake but from proper sources.</p> <p>Newsfeed apps</p> <p>Newsfeed apps are apps in which a continuous stream of news items (the feed) is published. These articles mainly consist of text and photography, regularly supplemented with video, audio, or interactive elements (statistics, etc.). The news articles offered can be free, paid, or a combination of the two.</p> <p>In the Discussion section, discuss the findings of the previous studies and specifically mention what new observation or insight was generated through your study results.</p> <p>In the Conclusion section, clearly, mention how your study advances the knowledge in the field</p> |

| | | |
|----|--|---|
| 2. | Idea / Solution description | <p>The total value of global consumer spends on mobile apps amounted to 70 billion US dollars as of the 4th quarter of 2021 which is up by more than eight percent compared to the corresponding quarter in 2020.</p> <p>We exist in an era where there is an app for everything. While technology advancements are taking place every day, there is a wider scope of building innovative apps that solve problems and become a part of our day-to-day life.</p> |
| 3. | Novelty / Uniqueness | <p>The best way to highlight the novelty in your study is by comparing it with the work that was done by others and pointing out the things that your study does which was never done before.</p> <p>In the Discussion section, discuss the findings of the previous studies and specifically mention what new observation or insight was generated through your study results.</p> <p>In the Conclusion section, clearly, mention how your study advances the knowledge in the field</p> |
| 4. | Social Impact / Customer Satisfaction | <p>Mobile devices have changed the way everyone lives. Here is a list of some amazing Social Good apps that can be used for a variety of different things. Some of these apps can be used on a day to day basis, others can be used for research, and some can be used to educate. No matter the reason, these mobile apps gives you the ability to stay consume conscious and socially involved in every facet of your life.</p> |
| 5. | Business Model (Revenue Model) | <p>Types of news apps</p> <p>Until recently, there were two types of apps for reading, listening, and viewing news published by newspapers: news feed apps and e-paper apps.</p> |

Newsfeed apps

Newsfeed apps are apps in which a continuous stream of news items (the feed) is published. These articles mainly consist of text and photography, regularly supplemented with video, audio, or interactive elements (statistics, etc.). The news articles offered can be free, paid, or a combination of the two.

E-paper apps

Apps that contain digital versions of printed newspapers or magazines are called e- paper, or “replica” apps. With a few exceptions, most e-paper apps require payment for a digital copy. These can often be purchased via the counters from Apple and Google and most of the time, existing subscribers need to log in to access the daily e- newspaper. The newspaper articles can typically only support flat files of static pictures and text.

Changing revenue model

The fact that we now see that more and more newspapers are choosing to merge both apps is mainly due to a changed connection between the two sources of revenue of publishers: that of the reader and advertiser market. Roughly ten years ago, the prevailing idea was that consumers would not pay for online news and that publishers’ internet revenues should therefore come purely from advertising income.

Feed (L) and e-paper (R)

In recent years, publishers have become aware that sale of online advertisements cannot generate enough revenue to survive. Thanks to start-ups like Blendle, an important Dutch pioneer of paid online journalism, paying for online content has become ordinary behaviour for consumers.

A process that has been strengthened further by the pandemic. A very positive development that we could not have imagined, 15 years ago. With this move, it is only natural that the news feed has grown into the e-paper. A good thing for readers who only find one app in the stores of their favorite news brand.

6. Scalability of the Solution

Application scalability refers to the capacity of an app to handle growth, especially in handling more users and evolving concurrently with your business needs.

In simple terms, scalability is your application's ability to handle a growing user base without affecting the user experience and the app's performance. That means your applications' infrastructure needs to be able to support a large number of requests per minute (RPMs).

Each user interacting with your application generates a request to your backend — the backend should process that request with a minimum delay. A highly scalable app efficiently manages many requests at once, delivering seamless experience

3.4 Problem solution fit:

| | | | | |
|---|---|--|---|-----------------------------------|
| Define CS, fit into CL | 1. CUSTOMER SEGMENT(S) CS Always stay up to date with current events. | 6. CUSTOMER LIMITATIONS <small>EG. BUDGET, DEVICES</small> CL The limitations of news tracker include their reproduction problems, short life span, lack of selectivity, and clutter. | 5. AVAILABLE SOLUTIONS <small>PLUSES & MINUSES</small> AS This will help the users to share news on various platforms such as Twitter and Facebook. This will give an amazing user experience and also will also increase the views. | Explore AS, differentiate |
| | 2. PROBLEMS / PAINS + ITS FREQUENCY PR <ul style="list-style-type: none">Too many apps used by single user.Spammed with Notifications.Increase in number of irrelevant news.Fake news getting shared. | 9. PROBLEM ROOT / CAUSE RC The people who are not knowing the news such that people won't get up to date and risk to survive in this generation. | 7. BEHAVIOR + ITS INTENSITY BE Using man power for printing and distributing the newspaper can cause financial problems. | |
| Focus on PR, tap into BE, understand RC | 3. TRIGGERS TO ACT TR Now a days youngsters are not interested in reading the newspapers so that they can read the news by their smart phones. | 10. YOUR SOLUTION SL By this application we can make ourselves updated, to know job vacancies, to make us knowledgeable. | 8. CHANNELS of BEHAVIOR CH Promoting through social media. With the help of social media entrepreneurs/influencer. | Extract online & offline CH of BE |
| | 4. EMOTIONS <small>BEFORE / AFTER</small> EM Before: Older audiences may not access digital platforms. After: Increased the level of features and feel secured | | <small>OFFLINE</small> Through newspaper advertisements. | |
| Identify strong TR & EM | | | | |

4. REQUIREMENT ANALYSIS

4.1 Functional requirement

Following are the functional requirements of the proposed solution.

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|--------|-------------------------------|--|
| FR-1 | User Registration | Registration through Form Registration through Gmail |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | User Login | User using his /her device to login to the app/website for reading news |
| FR-4 | User search | For getting news he/she must need to search the news in the given search bar, Which will collect the news according to his search from the online sources like blog, e-news paper, Articles etc |
| FR-5 | User Reads | Gathered news will be shown to the user in short lines/ summary manner. Along with news Pictures, hyperlinks for the blog, article Or original publisher of the news is given |
| FR-6 | User features | User can have lot of features like Like and share and Post features. |
| | | |

4.2 Non-Functional requirements

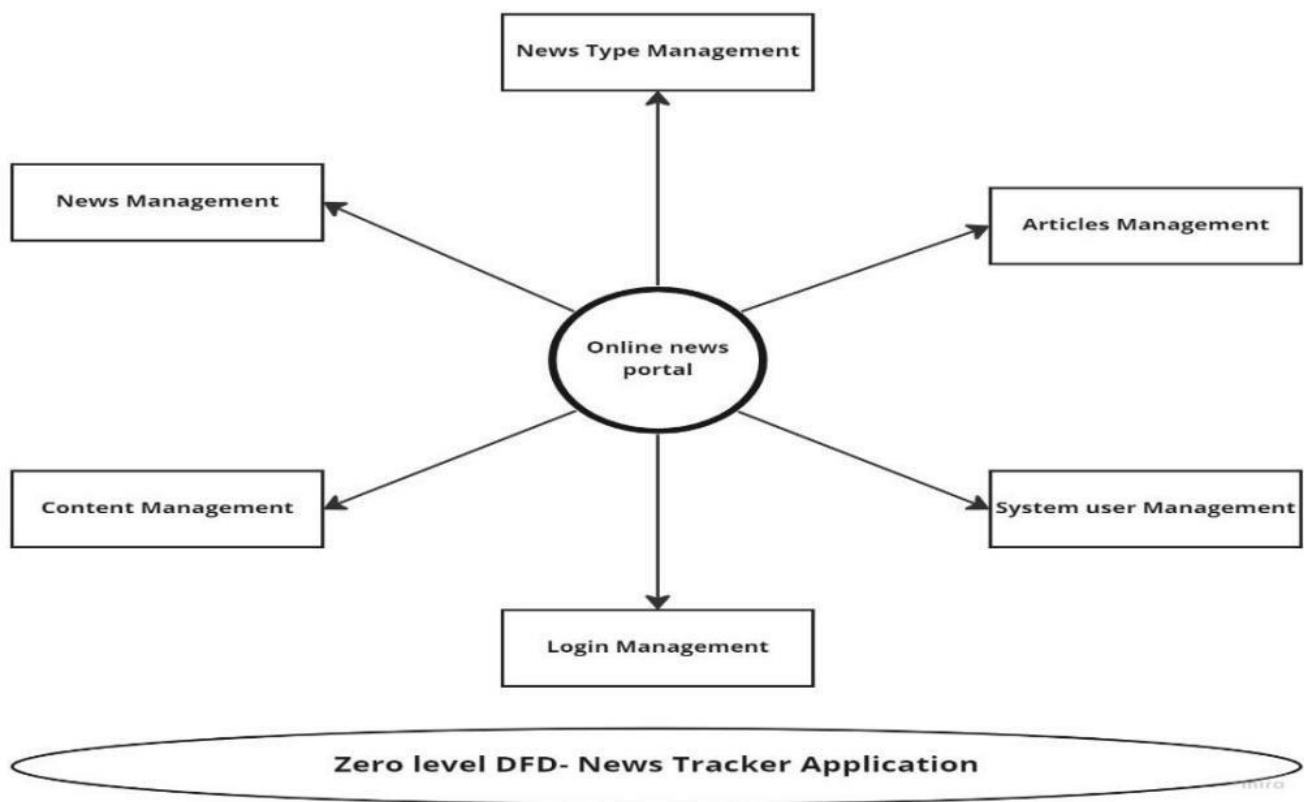
Following are the non-functional requirements of the proposed solution.

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|--|
| NFR-1 | Usability | For getting news he/she must need to search the news in the given search bar, Which will collect the news according to his search from the online sources like blog, e-news paper, Articles etc. Gathered news will be shown to the user in short lines/ summary manner. Along with news Pictures, hyperlinks for the blog, article Or original publisher of the news is given |
| NFR-2 | Security | User's data for the Registration and data collected from his activity are maintained in high security and must be used for only product improvement. Disclosing of his/her detail is considered as a crime hence they can take any legal actions against the service provider. |
| NFR-3 | Reliability | News gathered and presented to the user are from only authorized publishers, and the sources are authentic. User can rely on this app for original news . |
| NFR-4 | Performance | 24*7 service with best cloud service, There will be no performance issue to the users. |
| NFR-5 | Availability | Can download from Playstore and online websites. |
| NFR-6 | Scalability | Hence it is cloud based system Scalability will be no issue because Scalability is the prior feature of the cloud based services. |

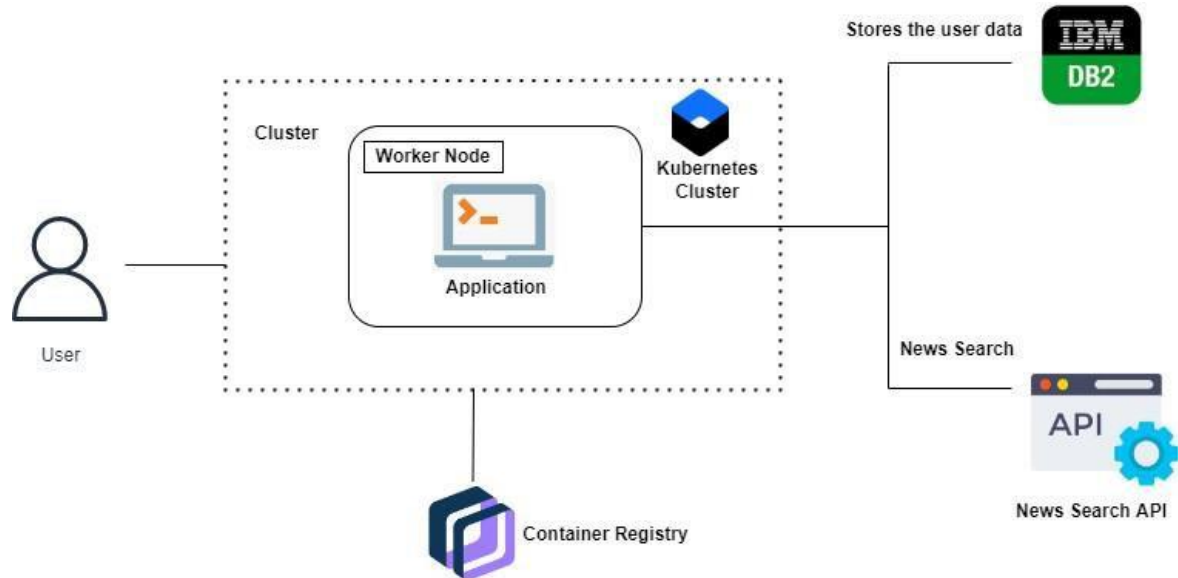
5.PROJECT DESIGN

5.1 Data Flow Diagrams

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clean DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system. What changes the information and where data is stored.



5.2 Solution & Technical Architecture



5.3 User Stories

| User Type | Functional Requirement (Epic) | User Story Number | User Story / Task | Acceptance criteria | Priority | Release |
|-------------------------|-------------------------------|-------------------|---|---|----------|----------|
| Customer (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 Facebook | I can register & access the dashboard with Facebook Login | Low | Sprint-2 |
| | | USN-4 | As a user, I can register for the application through Gmail | | High | Sprint-1 |
| | Login | USN-5 | As a user, I can log into the application by entering email & password | | High | Sprint-1 |
| | Dashboard | | | | | |
| Customer (Web user) | Log in | USN-6 | As a user, I can access the application through website | I can access my account / dashboard | High | |
| Customer Care Executive | 24x7 service | USN-7 | As a User, I may need help in using the app/website | Any help need | High | |
| Administrator | Owner/Chief executive | — | He/she will access the datas in the app | Product behaviour/Improvement purposes | Low | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

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 | Installation | USN-1 | As a user, I installed the app for day-to-day update and feeds. | 6 | High | Sandhiyashree V Prabhasri R |
| Sprint-1 | Register | USN-2 | As a user, I can register for the application by entering my email, password, confirming my password and phone number | 6 | High | Sandhiyashree V Pavithra V |
| Sprint-1 | Confirmation | USN-3 | As a user, I will receive confirmation email once I have registered for the application | 4 | Medium | Pavithra V Priyadharshini V |
| Sprint-1 | Registered | USN-4 | As a user, I can register for the application through Gmail | 4 | High | Sandhiyashree V Prabhasri R Pavithra V |
| Sprint-2 | Login | USN-5 | As a user, I can log into the application by entering email & password | 6 | High | Sandhiyashree V Priyadharshini V |
| Sprint-2 | Searching | USN-6 | Day to day news, feeds, categories, tech news and other updates | 4 | Medium | Pavithra V Prabhasri R |

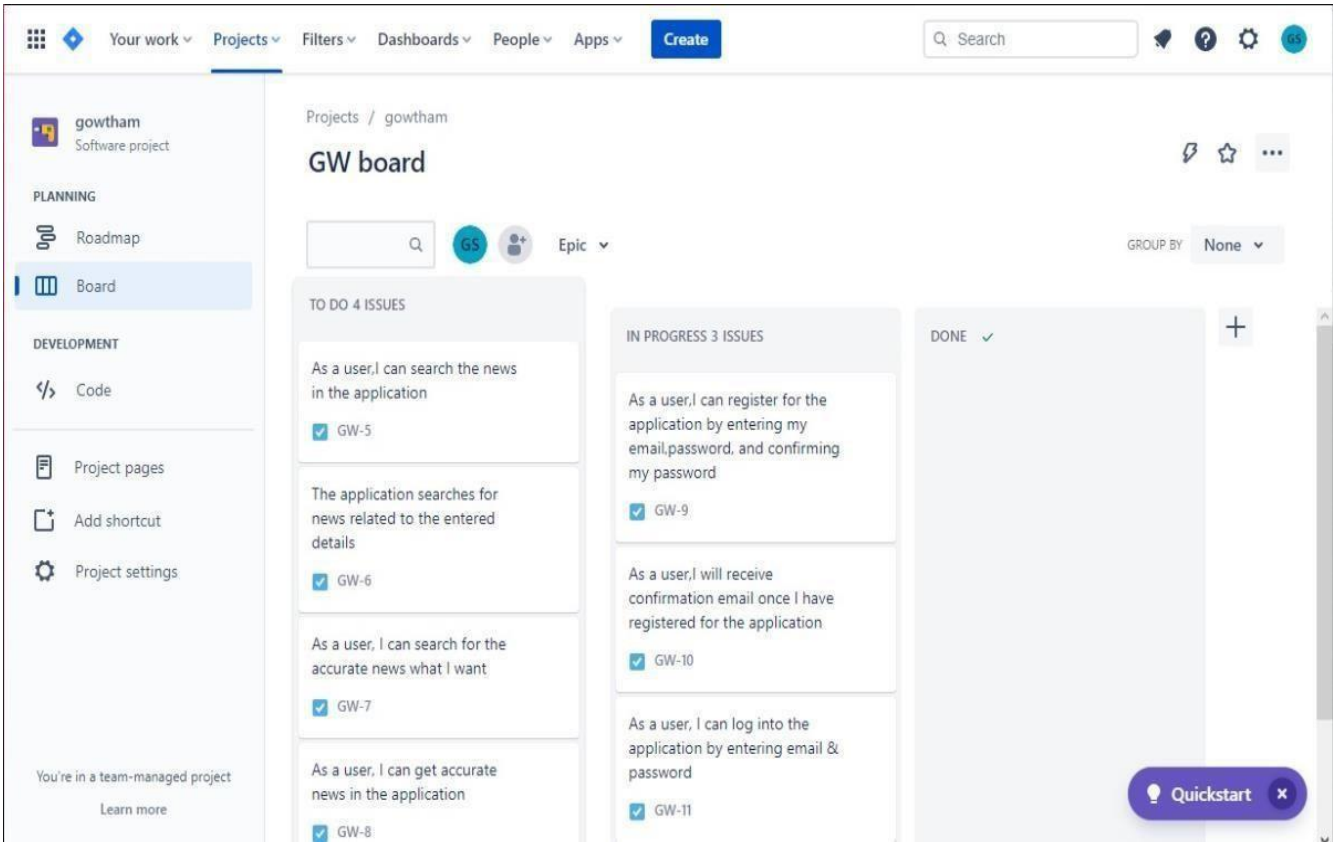
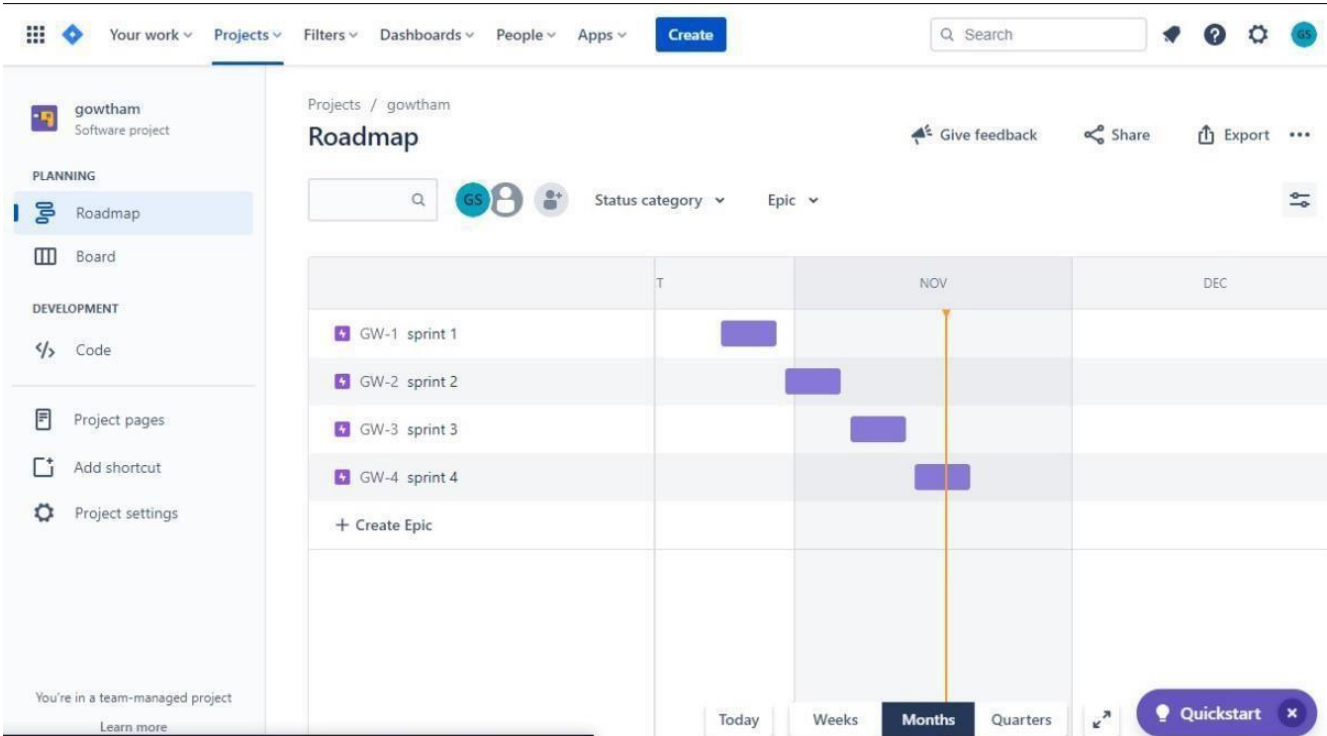
| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|----------|---|-------------------|--|--------------|----------|---|
| Sprint-2 | Creating SSL certificate and integrating with python code | USN-7 | Creating the SSL certificate to connect db2 via python code. | 6 | High | SandhiyaShree V Prabhasri R |
| Sprint-2 | Creating dashboard | USN-8 | User can interact with the developer | 4 | Medium | Priyadharshini V |
| Sprint-3 | More categories available | USN-9 | User can easily search their needs | 6 | High | Pavithra V Priyadharshini V |
| Sprint-3 | Integrating the Watson Chabot | USN-10 | Users can use the chatbot for basic clarification using the chatbot. | 4 | Medium | Prabhasri R Pavithra V |
| Sprint-4 | Docker installation | USN-11 | Installing Docker CLI | 4 | Low | Priyadharshini V |
| Sprint-4 | Creating docker image | USN-14 | Setting up the docker environment and creating the docker image file | 6 | High | Prabhasri R Pavithra V |
| Sprint-4 | Kubernetes | USN-15 | creating pods in Kubernetes and uploading it in IBM cloud | 6 | Medium | Pavithra V Priyadharshini V Sandhiyashree V |
| Sprint-4 | End-to-End Testing | USN-16 | Implementing End-to-End testing | 6 | High | Prabhasri R Sandhiyashree V |

| TITLE | DESCRIPTION | DATE |
|--|---|-------------------|
| Literature Survey and Information Gathering | Literature survey on the selected project & gathering information by referring the technical papers, research publications, etc. | 3 September 2022 |
| Prepare Empathy Map | Prepare Empathy Map Canvas to capture the user pains & gains, prepare the list of problem statements. | 10 September 2022 |
| Ideation Brain Storming | List by organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility and importance. | 16 September 2022 |
| Proposed Solution | Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc. | 24 September 2022 |
| Problem Solution Fit | Prepare problem solution fit document. | 28 September 2022 |
| Solution Architecture | Prepare solution architecture document. | 6 October 2022 |
| Customer Journey | Prepare the customer journey maps, understand the user interactions and experiences with the application. | 8 October 2022 |
| Solution Requirement | Prepare the functional requirement document. | 10 October 2022 |
| Data Flow Diagram | Draw the data flow diagrams and submit for review. | 15 October 2022 |
| Technology Architecture | Prepare the technology architecture diagram. | 20 October 2022 |
| Prepare Milestone & Activity List | Prepare the milestones and activity list of the project. | 28 October 2022 |
| Project Development Delivery of Sprint-1,2,3 & 4 | Develop and submit the developed code by testing it. | 19 October 2022 |

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 | 8 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 4 | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 5 | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 4 | 19 Nov 2022 |

6.3 Reports from JIRA

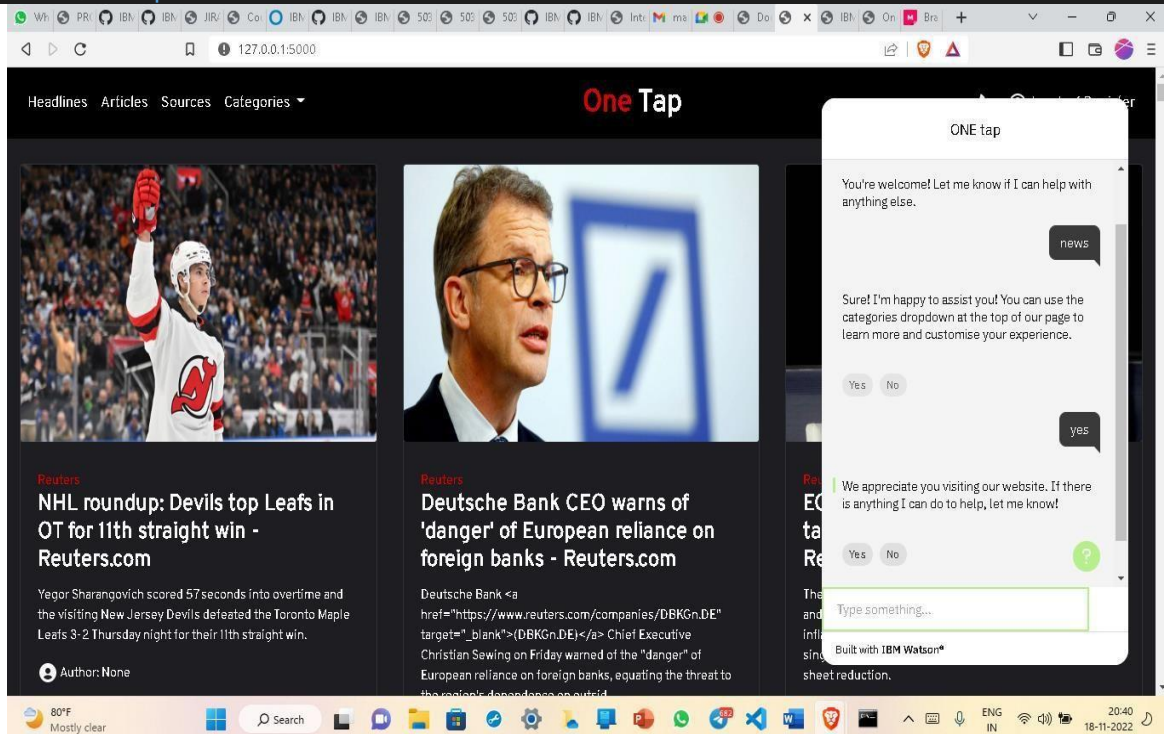


7. CODING & SOLUTIONING

(Explain the features added in the project along with code)

Feature:

```
<script>
window.watsonAssistantChatOptions = {
  integrationID: "fa18fb77-6c75-43f6-b1a1-a4f29fbbbc16", // The ID of
this integration.
  region: "eu-gb", // The region your integration is hosted in.
  serviceInstanceID: "87be378b-e186-46e4-9050-a97b5f524d5b", // The ID of
your service instance.
  onLoad: function(instance) { instance.render(); }
};
setTimeout(function(){
  const t=document.createElement('script');
  t.src="https://web-
chat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') +
"/WatsonAssistantChatEntry.js";
  document.head.appendChild(t);
});
</script>
```



8. TESTING:

8.1 Test Cases:

News Test

```
import unittest
from ..models import Articles

class NewsTest(unittest.TestCase):
    def setUp(self):
        self.articles = Articles(
            "Techcrunch",
            "Steve Njuguna",
            "Nike acquires NFT collectibles studio RTFKT",
            "Nike is taking a plunge deeper into the world of crypto collectibles, announcing that they're acquiring the NFT studio RTFKT (pronounced "artifact"). The acquisition announcement ...",
            "https://techcrunch.com/2021/12/13/nike-acquires-nft-collectibles-studio-rtfkt/",
            "https://techcrunch.com/wp-content/uploads/2021/12/FC3_itGXEAA6z5g.jpg?w=1390&crop=1",
            "2021-12-13T20:19:00Z"
        )
```

-

```
def test_instance(self): self.assertTrue(isinstance(self.articles, Articles))

if __name__ == "__main__": unittest.main()
```

Source Test Case:

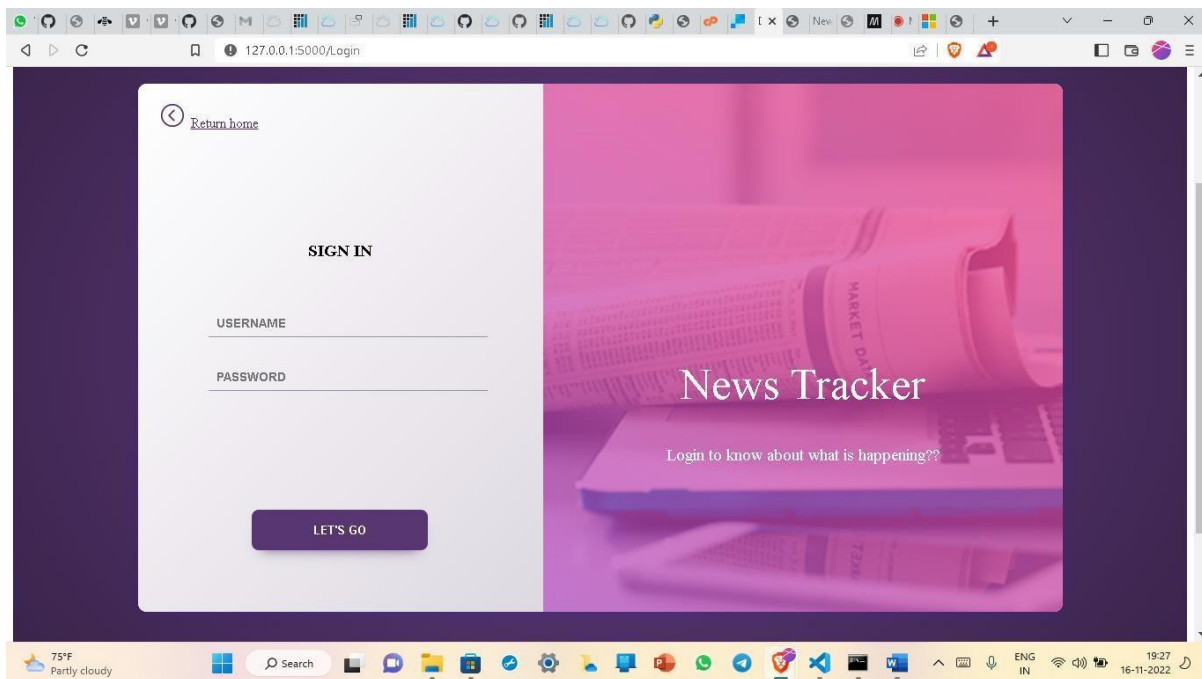
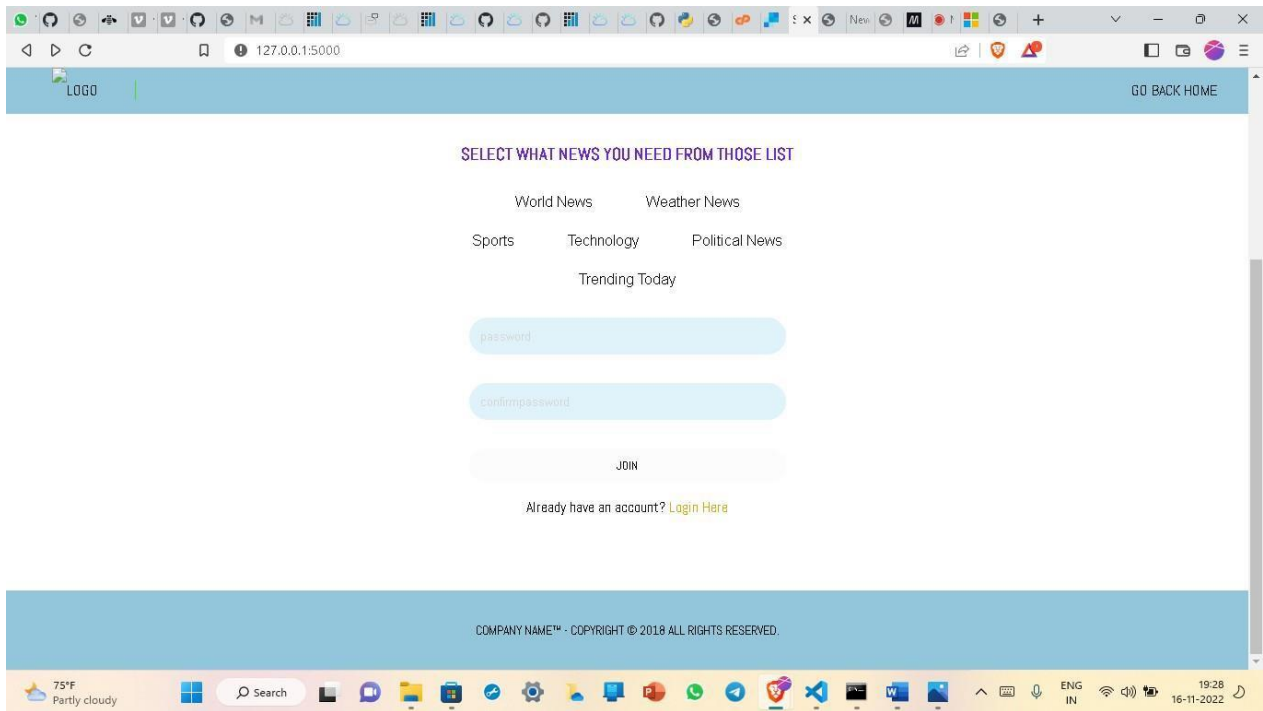
```
import unittest
from ..models import Sources

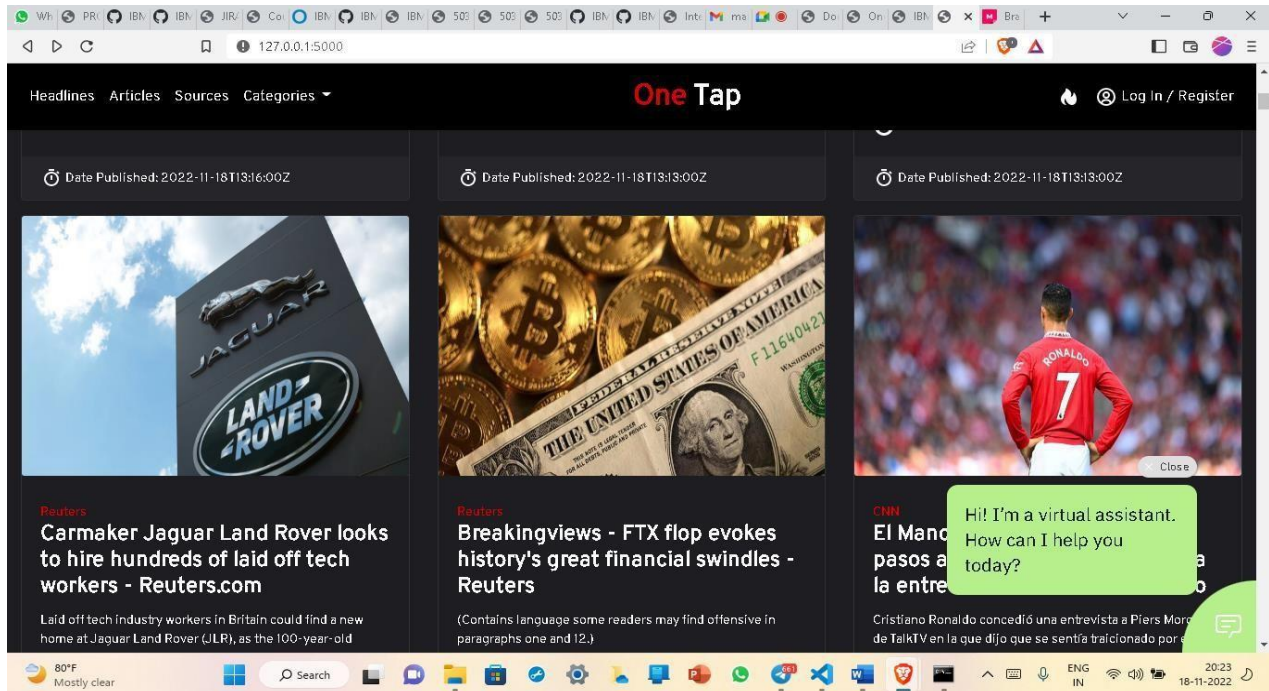
class SourceTest(unittest.TestCase):
    def setUp(self):
        self.source = Sources(
            "ABC News",
            "Your trusted source for breaking news, analysis, exclusive
interviews, headlines, and videos at ABCNews.com.",
            "https://abcnews.go.com/"
        )

    def test_instance(self):
        self.assertTrue(isinstance(self.source, Sources))

if __name__ == "__main__":
    unittest.main()
```

8.2 User Acceptance Testing





9.RESULTS

News tracker application using cloud is developed and executed at the level of completed progress.

10. ADVANTAGES& DISADVANTAGES

Advantages:

- It provides higher accuracy through cross validation.
- High stability compare to Existing system.
- It is an user-friendly application.
- To explore and discover trending news and topics.
- Easily accessible and portable.
- Better user experience.
- Minute by minute updates of news.

Disadvantage:

- Occurrence of Advertisement disturb the user.
- Sometimes the news gives brief information.
- It works only through internet.
- Device fault may affect the application.
- Fake news may mislead the readers.

11. CONCLUSION:

We explored the feasibility of recognizing patterns of news reading interactions and evaluated three adaptive interface designs for different news reader types. We show that from their interaction log, a specific user can be recognized as one of three kinds. The reader types emerging from the online survey are well defined and distinct. The evaluation of the three variant interfaces suggests that different news reader types need different user interfaces. We have demonstrated a method for monitoring users' news reading behavior and inferring news reader type from it. In the future we will further explore the design of adaptive interfaces, in order to be in a position to demonstrate a complete adaptive mobile news framework providing automatic personalization of news apps.

12. FUTURE SCOPE:

In the future we will further explore the design of adaptive interfaces, in order to be in a position to demonstrate a complete adaptive mobile news framework providing automatic personalization of news apps.

13. APPENDIX

Source Code

`__init__.py:`

```
from flask import Flask

app = Flask(__name__)

from app import views
```

`config.py:`

```
class Config:

    NEWS_BASE_URL_SOURCES = 'https://newsapi.org/v2/top-
headlines/sources?apiKey={}'
    NEWS_BASE_EVERYTHING_URL =
'https://newsapi.org/v2/everything?domains={}&apiKey={}'
    NEWS_BASE_HEADLINES_URL = 'https://newsapi.org/v2/top-
headlines?country=us&apiKey={}'
    NEWS_BASE_SOURCE = 'https://newsapi.org/v2/top-
headlines/sources?apiKey={}'
    API_KEY = "367756a948444eb3becb814af0e4bcb8"

class ProdConfig(Config):
    pass

class DevConfig(Config):
    DEBUG = True

config_options= {
    'development': DevConfig,
    'production': ProdConfig
}
```

Models.py:

```
class Sources:
    def __init__(self, name, description, url):
        self.name=name
        self.description=description
        self.url=url

class Articles:
    '''Define article model'''
    def __init__(self, source, author, title, description, url, urlToImage,
publishedAt):
        self.source = source
        self.author = author
        self.title = title
        self.description = description
        self.url = url
        self.urlToImage = urlToImage
        self.publishedAt = publishedAt
```

request.py:

```
from .models import Articles
from .models import Sources
from newsapi.newsapi_client import NewsApiClient
from .config import Config
import urllib.request,json

api_key=None
base_url=None
base_url_for_everything= None
base_url_top_headlines=None
base_source_list=None

def publishedArticles():
    newsapi = NewsApiClient(api_key= Config.API_KEY)

    get_articles = newsapi.get_everything(sources= 'cnn, reuters, cnbc, the-
verge, gizmodo, the-next-web, techradar, recode, ars-technica')

    all_articles = get_articles['articles']

    articles_results = []

    source = []
    title = []
    desc = []
    author = []
    img = []
    p_date = []
    url = []

    for i in range(len(all_articles)):
        article = all_articles[i]

        source.append(article['source'])
        title.append(article['title'])
        desc.append(article['description'])
        author.append(article['author'])
        img.append(article['urlToImage'])
        p_date.append(article['publishedAt'])
        url.append(article['url'])

        article_object = Articles(source, title, desc, author, img, p_date, url)
```



```

        articles_results.append(article_object)

        contents = zip(source, title, desc, author, img, p_date, url)

    return contents

def topHeadlines():
    newsapi = NewsApiClient(api_key= Config.API_KEY)

    top_headlines = newsapi.get_top_headlines(sources= 'cnn, reuters, cnbc,
techcrunch, the-verge, gizmodo, the-next-web, techradar, recode, ars-technica')

    all_headlines = top_headlines['articles']

    articles_results = []

    source = []
    title = []
    desc = []
    author = []
    img = []
    p_date = []
    url = []

    for i in range(len(all_headlines)):
        headline = all_headlines[i]

        source.append(headline['source'])
        title.append(headline['title'])
        desc.append(headline['description'])
        author.append(headline['author'])
        img.append(headline['urlToImage'])
        p_date.append(headline['publishedAt'])
        url.append(headline['url'])

        article_object = Articles(source, title, desc, author, img, p_date, url)

        articles_results.append(article_object)

        contents = zip(source, title, desc, author, img, p_date, url)

    return contents

def randomArticles():
    newsapi = NewsApiClient(api_key= Config.API_KEY)

```

```

    random_articles = newsapi.get_everything(sources= 'the-verge, gizmodo, the-
next-web, recode, ars-technica')

    all_articles = random_articles['articles']

    articles_results = []

    source = []
    title = []
    desc = []
    author = []
    img = []
    p_date = []
    url = []

    for i in range(len(all_articles)):
        article = all_articles[i]

        source.append(article['source'])
        title.append(article['title'])
        desc.append(article['description'])
        author.append(article['author'])
        img.append(article['urlToImage'])
        p_date.append(article['publishedAt'])
        url.append(article['url'])

        article_object = Articles(source, title, desc, author, img, p_date, url)

        articles_results.append(article_object)

        contents = zip(source, title, desc, author, img, p_date, url)

    return contents

def businessArticles():
    newsapi = NewsApiClient(api_key= Config.API_KEY)

    business_articles = newsapi.get_top_headlines(category='business')

    all_articles = business_articles['articles']

    business_articles_results = []

    source = []

```

```

title = []
desc = []
author = []
img = []
p_date = []
url = []

for i in range(len(all_articles)):
    article = all_articles[i]

    source.append(article['source'])
    title.append(article['title'])
    desc.append(article['description'])
    author.append(article['author'])
    img.append(article['urlToImage'])
    p_date.append(article['publishedAt'])
    url.append(article['url'])

    article_object = Articles(source, title, desc, author, img, p_date, url)

    business_articles_results.append(article_object)

    contents = zip(source, title, desc, author, img, p_date, url)

return contents

def techArticles():
    newsapi = NewsApiClient(api_key= Config.API_KEY)

    tech_articles = newsapi.get_top_headlines(category='technology')

    all_articles = tech_articles['articles']

    tech_articles_results = []

    source = []
    title = []
    desc = []
    author = []
    img = []
    p_date = []
    url = []

    for i in range(len(all_articles)):
        article = all_articles[i]

```

```
source.append(article['source'])
title.append(article['title'])
desc.append(article['description'])
author.append(article['author'])
img.append(article['urlToImage'])
p_date.append(article['publishedAt'])
url.append(article['url'])

article_object = Articles(source, title, desc, author, img, p_date, url)

tech_articles_results.append(article_object)

contents = zip(source, title, desc, author, img, p_date, url)

return contents
```

```
def entArticles():
    newsapi = NewsApiClient(api_key= Config.API_KEY)

    ent_articles = newsapi.get_top_headlines(category='entertainment')

    all_articles = ent_articles['articles']

    ent_articles_results = []

    source = []
    title = []
    desc = []
    author = []
    img = []
    p_date = []
    url = []

    for i in range(len(all_articles)):
        article = all_articles[i]

        source.append(article['source'])
        title.append(article['title'])
        desc.append(article['description'])
        author.append(article['author'])
        img.append(article['urlToImage'])
        p_date.append(article['publishedAt'])
        url.append(article['url'])
```

```

        article_object = Articles(source, title, desc, author, img, p_date, url)

        ent_articles_results.append(article_object)

        contents = zip(source, title, desc, author, img, p_date, url)

    return contents

def scienceArticles():
    newsapi = NewsApiClient(api_key= Config.API_KEY)

    science_articles = newsapi.get_top_headlines(category='science')

    all_articles = science_articles['articles']

    science_articles_results = []

    source = []
    title = []
    desc = []
    author = []
    img = []
    p_date = []
    url = []

    for i in range(len(all_articles)):
        article = all_articles[i]

        source.append(article['source'])
        title.append(article['title'])
        desc.append(article['description'])
        author.append(article['author'])
        img.append(article['urlToImage'])
        p_date.append(article['publishedAt'])
        url.append(article['url'])

        article_object = Articles(source, title, desc, author, img, p_date, url)

        science_articles_results.append(article_object)

        contents = zip(source, title, desc, author, img, p_date, url)

    return contents

def sportArticles():

```

```

newsapi = NewsApiClient(api_key= Config.API_KEY)

sport_articles = newsapi.get_top_headlines(category='sports')

all_articles = sport_articles['articles']

sport_articles_results = []

source = []
title = []
desc = []
author = []
img = []
p_date = []
url = []

for i in range(len(all_articles)):
    article = all_articles[i]

    source.append(article['source'])
    title.append(article['title'])
    desc.append(article['description'])
    author.append(article['author'])
    img.append(article['urlToImage'])
    p_date.append(article['publishedAt'])
    url.append(article['url'])

    article_object = Articles(source, title, desc, author, img, p_date, url)

    sport_articles_results.append(article_object)

    contents = zip(source, title, desc, author, img, p_date, url)

return contents

def healthArticles():
    newsapi = NewsApiClient(api_key= Config.API_KEY)

    health_articles = newsapi.get_top_headlines(category='health')

    all_articles = health_articles['articles']

    health_articles_results = []

    source = []

```

```

title = []
desc = []
author = []
img = []
p_date = []
url = []

for i in range(len(all_articles)):
    article = all_articles[i]

    source.append(article['source'])
    title.append(article['title'])
    desc.append(article['description'])
    author.append(article['author'])
    img.append(article['urlToImage'])
    p_date.append(article['publishedAt'])
    url.append(article['url'])

    article_object = Articles(source, title, desc, author, img, p_date, url)

    health_articles_results.append(article_object)

    contents = zip(source, title, desc, author, img, p_date, url)

    return contents

def get_news_source():
    '''
    Function that gets the json response to our url request
    '''
    get_news_source_url = 'https://newsapi.org/v2/sources?apiKey=' + Config.API_KEY
    with urllib.request.urlopen(get_news_source_url) as url:
        get_news_source_data = url.read()
        get_news_source_response = json.loads(get_news_source_data)

    news_source_results = None

    if get_news_source_response['sources']:
        news_source_results_list = get_news_source_response['sources']
        news_source_results = process_sources(news_source_results_list)

    return news_source_results

def process_sources(source_list):
    '''

```

```

function that process the news articles and transform them to a list of objects
'''

news_source_result = []
for news_source_item in source_list:
    name = news_source_item.get('name')
    description = news_source_item.get('description')
    url = news_source_item.get('url')

    if name:
        news_source_object = Sources(name, description,url)
        news_source_result.append(news_source_object)
return news_source_result

```

views.py:

```

from app import app
from flask import render_template
from .request import businessArticles, entArticles, get_news_source,
healthArticles, publishedArticles, randomArticles, scienceArticles,
sportArticles, techArticles, topHeadlines

@app.route('/')
def home():
    articles = publishedArticles()

    return render_template('home.html', articles = articles)

@app.route('/headlines')
def headlines():
    headlines = topHeadlines()

    return render_template('headlines.html', headlines = headlines)

@app.route('/articles')
def articles():
    random = randomArticles()

    return render_template('articles.html', random = random)

@app.route('/sources')
def sources():
    newsSource = get_news_source()

    return render_template('sources.html', newsSource = newsSource)

```



```
@app.route('/category/business')
def business():
    sources = businessArticles()

    return render_template('business.html', sources = sources)

@app.route('/category/tech')
def tech():
    sources = techArticles()

    return render_template('tech.html', sources = sources)

@app.route('/category/entertainment')
def entertainment():
    sources = entArticles()

    return render_template('entertainment.html', sources = sources)

@app.route('/category/science')
def science():
    sources = scienceArticles()

    return render_template('science.html', sources = sources)

@app.route('/category/sports')
def sports():
    sources = sportArticles()

    return render_template('sport.html', sources = sources)

@app.route('/category/health')
def health():
    sources = healthArticles()

    return render_template('health.html', sources = sources)

@app.route('/Login')
def Login():
    return render_template('Login.html')

@app.route('/Signup')
def Signup():
    return render_template('Signup.html')
```

main.py:

```
from app import app

if __name__ == "__main__":
    app.run(debug=True)
```

news_test.py:

```
import unittest
from ..models import Articles

class NewsTest(unittest.TestCase):
    def setUp(self):
        self.articles = Articles(
            "Techcrunch",
            "Steve Njuguna",
            "Nike acquires NFT collectibles studio RTFKT",
            "Nike is taking a plunge deeper into the world of crypto collectibles, announcing that they're acquiring the NFT studio RTFKT (pronounced 'artifact'). The acquisition announcement ...",
            "https://techcrunch.com/2021/12/13/nike-acquires-nft-collectibles-studio-rtfkt/",
            "https://techcrunch.com/wp-content/uploads/2021/12/FC3_itGXEAA6z5g.jpg?w=1390&crop=1",
            "2021-12-13T20:19:00Z"
        )

    def test_instance(self):
        self.assertTrue(isinstance(self.articles, Articles))

if __name__ == "__main__":
    unittest.main()
```

source_test.py:

```
import unittest
from ..models import Sources

class SourceTest(unittest.TestCase):
    def setUp(self):
        self.source = Sources(
            "ABC News",
            "Your trusted source for breaking news, analysis, exclusive
interviews, headlines, and videos at ABCNews.com.",
            "https://abcnews.go.com/"
        )

    def test_instance(self):
        self.assertTrue(isinstance(self.source, Sources))

if __name__ == "__main__":
    unittest.main()
```

articles.html:

```
{% extends 'base.html' %}

{% block content %}

<div class="container-fluid landing">
    <div class="row">
        {% for source, title, desc, author, img, p_date, url in random %}
        <div class="col-md-4 d-flex justify-content-center">
            <div class="card mb-3 bg-dark text-white">
                
                <div class="card-body">
                    <p class="card-text source">{{ source.name }}</p>
                    <a href="{{ url }}">
                        <h2 class="card-title"><b> {{ title }} </b></h2>
                    </a>
                    <p class="card-text">{{ desc }}</p>
                    <p class="card-text"><svg xmlns="http://www.w3.org/2000/svg"
width="24" height="24" viewBox="0 0 24 24" style="fill: rgba(255, 255, 255,
1);transform: ;msFilter:; "><path d="M12 2C6.579 2 2 6.579 2 12s4.579 10 10 10-
4.579 10-10S17.421 2 12 2zm0 5c1.727 0 3 1.272 3 3s-1.273 3-3 3c-1.726 0-3-1.272-
3-3s1.274-3 3-3zm-5.106 9.772c.897-1.32 2.393-2.2 4.106-2.2h2c1.714 0 3.209.88
```

```

4.106 2.2C15.828 18.14 14.015 19 12 19s-3.828-.86-5.106-2.228z"></path></svg>
Author: {{ author }}</p>
    </div>
    <div class="card-footer">
        <p class="card-text published"><svg class="p-svg"
xmlns="http://www.w3.org/2000/svg" width="24" height="24" viewBox="0 0 24 24"
style="fill: rgba(255, 255, 255, 1);transform: ;msFilter:; "><path d="M12 5c-4.411
0-8 3.589-8 8s3.589 8 8 8-3.589 8-8-3.589-8-8-8zm0 14c-3.309 0-6-2.691-6-
6s2.691-6 6-6 6-2.691 6-6-2.691 6-6 6z"></path><path d="M11 9h2v5h-2zM9
2h6v2H9zm10.293 5.707-2-2 1.414-1.414 2 2z"></path></svg> Date Published: {{
p_date }}</p>
    </div>
</div>
</div>
    {% endfor %}
</div>
</div>

{% endblock %}

```

Base.html:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <meta name="Description" content="Enter your description here"/>
    <!-- Favicons -->
    <link href="{{ url_for('static', filename='/favicon.ico') }}" rel="icon">

    <link rel="stylesheet"
href="https://fonts.googleapis.com/css?family=Overpass" >
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/twitter-
bootstrap/4.6.0/css/bootstrap.min.css">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.15.4/css/all.min.css">
    <link rel="stylesheet" href="{{ url_for('static',
filename='assets/css/style.css') }}">
    <title>One Tap</title>
</head>
<body>

    {% block navbar %}

```

```

<div class="container-fluid" style="background-color: #000;">
  <nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top shadow-sm">

    <!-- Show this only on mobile to medium screens -->
    <a class="navbar-brand d-lg-none" href="{{ url_for('home') }}"><b
class="lg"><span class="logo">One</span> Tap</b></a>

    <button class="navbar-toggler" type="button" data-toggle="collapse"
data-target="#navbarToggle" aria-controls="navbarToggle" aria-expanded="false"
aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>

    <!-- Use flexbox utility classes to change how the child elements
are justified -->
    <div class="collapse navbar-collapse justify-content-between"
id="navbarToggle">

      <ul class="navbar-nav">
        <li class="nav-item">
          <a class="nav-link" href="{{ url_for('headlines')
}}">Headlines</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="{{ url_for('articles')
}}">Articles</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="{{ url_for('sources')
}}">Sources</a>
        </li>
        <li class="nav-item dropdown">
          <a class="nav-link dropdown-toggle" href="#"
id="navbarDropdown" role="button" data-toggle="dropdown" aria-expanded="false">
            Categories
          </a>
          <div class="dropdown-menu" aria-
labelledby="navbarDropdown">
            <a class="dropdown-item" href="{{ url_for('business')
}}">Business</a>
            <a class="dropdown-item" href="{{ url_for('tech')
}}">Technology</a>
          </div>
        </li>
      </ul>
    </div>
  </nav>
</div>

```

```

        <a class="dropdown-item" href="{{
url_for('entertainment') }}">Entertainment</a>
        <a class="dropdown-item" href="{{ url_for('science')
}}">Science</a>
        <a class="dropdown-item" href="{{ url_for('sports')
}}">Sport</a>
        <a class="dropdown-item" href="{{ url_for('health')
}}">Health</a>
    </div>
</li>
</ul>

```

```

<!-- Show this only lg screens and up -->
    <a class="navbar-brand d-none d-lg-block" href="{{
url_for('home') }}"><b class="lg"><span class="logo">One</span> Tap</b></a>

```

```

    <ul class="navbar-nav">
        <li class="nav-item">
            <a class="nav-link" href="/headlines">
                <svg class="svg" xmlns="http://www.w3.org/2000/svg"
width="24" height="24" viewBox="0 0 24 24" style="fill: rgba(255, 255, 255,
1);transform: ;msFilter:; "><path d="M16.5,8c0,1.5-0.5,3.5-2.9,4.3c0.7-1.7,0.8-
3.4,0.3-5c-0.7-2.1-3-3.7-4.6-4.6C8.9,2.4,8.2,2.8,8.3,3.4c0,1.1 -0.3,2.7-
2,4.4 C4.1,10,3,12.3,3,14.5C3,17.4,5,21,9,21c-4-4-1-7.5-1-
7.5c0.8,5.9,5,7.5,7,7.5c1.7,0,5-1.2,5-6.4c0-3.1-1.3-5.5-2.4-
6.9 C17.3,7.2,16.6,7.5,16.5,8"></path></svg>
            </a>
        </li>
        <li class="nav-item">
            <a class="nav-link" href="/Login">
                <svg class="svg" xmlns="http://www.w3.org/2000/svg"
viewBox="0 0 24 24" width="24" height="24" style="fill: rgba(255, 255, 255,
1);transform: ;msFilter:; "><path d="M12 2A10.13 10.13 0 0 2 12a10 10 0 0 4
7.92V20h.1a9.7 9.7 0 0 0 11.8 0h.1v-.08A10 10 0 0 0 22 12 10.13 10.13 0 0 0 12
2zM8.07 18.93A3 3 0 0 1 11 16.57h2a3 3 0 0 1 2.93 2.36 7.75 7.75 0 0 1-7.86
0zm9.54-1.29A5 5 0 0 0 13 14.57h-2a5 5 0 0 0-4.61 3.07A8 8 0 0 1 4 12a8.1 8.1 0 0
1 8-8 8.1 8.1 0 0 1 8 8 8 8 0 0 1-2.39 5.64z"></path><path d="M12 6a3.91 3.91 0 0
0-4 4 3.91 3.91 0 0 0 4 4 3.91 3.91 0 0 0 4-4 3.91 3.91 0 0 0-4-4zm0 6a1.91 1.91
0 0 1-2-2 1.91 1.91 0 0 1 2-2 1.91 1.91 0 0 1 2 2 1.91 1.91 0 0 1-2
2z"></path></svg> Log In / Register
            </a>
        </li>

```

```

        </ul>
      </div>
    </nav>
  </div>

  {% endblock %}

  {% block content %}

  {% endblock %}

  {% block footer %}

  <div class="container-fluid footer">
    <p class="text-center footer-text">
      © <span class="logo">News</span> NEWS TRACKER APPLICATION
    </p>
  </div>

  {% endblock %}

  <script
src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.5.1/jquery.slim.min.js" ></sc
ript>
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.1/umd/popper.min.js" ><
/script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/twitter-
bootstrap/4.6.0/js/bootstrap.min.js"></script>
  <script>
    window.watsonAssistantChatOptions = {
      integrationID: "fa18fb77-6c75-43f6-b1a1-a4f29fbbbc16", // The ID of
this integration.
      region: "eu-gb", // The region your integration is hosted in.
      serviceInstanceID: "87be378b-e186-46e4-9050-a97b5f524d5b", // The ID of
your service instance.
      onLoad: function(instance) { instance.render(); }
    };
    setTimeout(function(){
      const t=document.createElement('script');
      t.src="https://web-
chat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') +
"/WatsonAssistantChatEntry.js";
      document.head.appendChild(t);

```

Business.html:

```
{% extends 'base.html' %}

{% block content %}

<div class="container-fluid landing">
  <div class="row">
    {% for source, title, desc, author, img, p_date, url in sources %}
    <div class="col-md-4 d-flex justify-content-center">
      <div class="card mb-3 bg-dark text-white">
        
        <div class="card-body">
          <p class="card-text source">{{ source.name }}</p>
          <a href="{{ url }}">
            <h2 class="card-title"><b> {{ title }} </b></h2>
          </a>
          <p class="card-text">{{ desc }}</p>
          <p class="card-text"><svg xmlns="http://www.w3.org/2000/svg"
width="24" height="24" viewBox="0 0 24 24" style="fill: rgba(255, 255, 255,
1);transform: ;msFilter:; "><path d="M12 2C6.579 2 2 6.579 2 12s4.579 10 10 10-
4.579 10-10s17.421 2 12 2zm0 5c1.727 0 3 1.272 3 3s-1.273 3-3 3c-1.726 0-3-1.272-
3-3s1.274-3 3-3zm-5.106 9.772c.897-1.32 2.393-2.2 4.106-2.2h2c1.714 0 3.209.88
4.106 2.2C15.828 18.14 14.015 19 12 19s-3.828-.86-5.106-2.228z"></path></svg>
Author: {{ author }}</p>
        </div>
        <div class="card-footer">
          <p class="card-text published"><svg class="p-svg"
xmlns="http://www.w3.org/2000/svg" width="24" height="24" viewBox="0 0 24 24"
style="fill: rgba(255, 255, 255, 1);transform: ;msFilter:; "><path d="M12 5c-4.411
0-8 3.589-8 8s3.589 8 8 8-3.589 8-8-3.589-8-8-8zm0 14c-3.309 0-6-2.691-6-
6s2.691-6 6-6 6-2.691 6-6 6z"></path><path d="M11 9h2v5h-2zM9
2h6v2H9zm10.293 5.707-2-2 1.414-1.414 2 2z"></path></svg> Date Published: {{
p_date }}</p>
        </div>
      </div>
    {% endfor %}
  </div>
</div>
```



```
{% endblock %}
```

Entertainment.html:

```
{% extends 'base.html' %}
```

```
{% block content %}
```

```
<div class="container-fluid landing">
    <div class="row">
        {% for source, title, desc, author, img, p_date, url in sources %}
        <div class="col-md-4 d-flex justify-content-center">
            <div class="card mb-3 bg-dark text-white">
                
                <div class="card-body">
                    <p class="card-text source">{{ source.name }}</p>
                    <a href="{{ url }}">
                        <h2 class="card-title"><b> {{ title }} </b></h2>
                    </a>
                    <p class="card-text">{{ desc }}</p>
                    <p class="card-text"><svg xmlns="http://www.w3.org/2000/svg"
width="24" height="24" viewBox="0 0 24 24" style="fill: rgba(255, 255, 255,
1);transform: ;msFilter:; "><path d="M12 2C6.579 2 2 6.579 2 12s4.579 10 10 10-
4.579 10-10S17.421 2 12 2zm0 5c1.727 0 3 1.272 3 3s-1.273 3-3 3c-1.726 0-3-1.272-
3-3s1.274-3 3-3zm-5.106 9.772c.897-1.32 2.393-2.2 4.106-2.2h2c1.714 0 3.209.88
4.106 2.2C15.828 18.14 14.015 19 12 19s-3.828-.86-5.106-2.228z"></path></svg>
Author: {{ author }}</p>
                </div>
                <div class="card-footer">
                    <p class="card-text published"><svg class="p-svg"
xmlns="http://www.w3.org/2000/svg" width="24" height="24" viewBox="0 0 24 24"
style="fill: rgba(255, 255, 255, 1);transform: ;msFilter:; "><path d="M12 5c-4.411
0-8 3.589-8 8s3.589 8 8 8-3.589 8-8-3.589-8-8-8zm0 14c-3.309 0-6-2.691-6-
6s2.691-6 6-6 2.691 6 6-2.691 6-6 6z"></path><path d="M11 9h2v5h-2zM9
2h6v2H9zm10.293 5.707-2-2 1.414-1.414 2 2z"></path></svg> Date Published: {{
p_date }}</p>
                </div>
            </div>
        </div>
        {% endfor %}
    </div>
</div>

{% endblock %}
```

Headlines.html:

```
{% extends 'base.html' %}

{% block content %}

<div class="container-fluid landing">
    <div class="row">
        {% for source, title, desc, author, img, p_date, url in headlines %}
        <div class="col-md-4 d-flex justify-content-center">
            <div class="card mb-3 bg-dark text-white">
                
                <div class="card-body">
                    <p class="card-text source">{{ source.name }}</p>
                    <a href="{{ url }}">
                        <h2 class="card-title"><b> {{ title }} </b></h2>
                    </a>
                    <p class="card-text">{{ desc }}</p>
                    <p class="card-text"><svg xmlns="http://www.w3.org/2000/svg"
width="24" height="24" viewBox="0 0 24 24" style="fill: rgba(255, 255, 255,
1);transform: ;msFilter:;"><path d="M12 2C6.579 2 2 6.579 2 12s4.579 10 10 10-
4.579 10-10S17.421 2 12 2zm0 5c1.727 0 3 1.272 3 3s-1.273 3-3 3c-1.726 0-3-1.272-
3-3s1.274-3 3-3zm-5.106 9.772c.897-1.32 2.393-2.2 4.106-2.2h2c1.714 0 3.209.88
4.106 2.2C15.828 18.14 14.015 19 12 19s-3.828-.86-5.106-2.228z"></path></svg>
Author: {{ author }}</p>
                </div>
                <div class="card-footer">
                    <p class="card-text published"><svg class="p-svg"
xmlns="http://www.w3.org/2000/svg" width="24" height="24" viewBox="0 0 24 24"
style="fill: rgba(255, 255, 255, 1);transform: ;msFilter:;"><path d="M12 5c-4.411
0-8 3.589-8 8s3.589 8 8 8-3.589 8-8 8-3.589-8-8-8zm0 14c-3.309 0-6-2.691-6-
6s2.691-6 6-6 6-2.691 6-6 6z"></path><path d="M11 9h2v5h-2zM9
2h6v2H9zm10.293 5.707-2-2 1.414-1.414 2 2z"></path></svg> Date Published: {{
p_date }}</p>
                </div>
            </div>
        </div>
        {% endfor %}
    </div>
</div>

{% endblock %}
```

Health.html:

```
{% extends 'base.html' %}

{% block content %}

<div class="container-fluid landing">
    <div class="row">
        {% for source, title, desc, author, img, p_date, url in sources %}
            <div class="col-md-4 d-flex justify-content-center">
                <div class="card mb-3 bg-dark text-white">
                    
                    <div class="card-body">
                        <p class="card-text source">{{ source.name }}</p>
                        <a href="{{ url }}">
                            <h2 class="card-title"><b> {{ title }} </b></h2>
                        </a>
                        <p class="card-text">{{ desc }}</p>
                        <p class="card-text"><svg xmlns="http://www.w3.org/2000/svg"
width="24" height="24" viewBox="0 0 24 24" style="fill: rgba(255, 255, 255,
1);transform: ;msFilter:;"><path d="M12 2C6.579 2 2 6.579 2 12s4.579 10 10 10-
4.579 10-10S17.421 2 12 2zm0 5c1.727 0 3 1.272 3 3s-1.273 3-3 3c-1.726 0-3-1.272-
3-3s1.274-3 3-3zm-5.106 9.772c.897-1.32 2.393-2.2 4.106-2.2h2c1.714 0 3.209.88
4.106 2.2C15.828 18.14 14.015 19 12 19s-3.828-.86-5.106-2.228z"></path></svg>
Author: {{ author }}</p>
                    </div>
                    <div class="card-footer">
                        <p class="card-text published"><svg class="p-svg"
xmlns="http://www.w3.org/2000/svg" width="24" height="24" viewBox="0 0 24 24"
style="fill: rgba(255, 255, 255, 1);transform: ;msFilter:;"><path d="M12 5c-4.411
0-8 3.589-8 8s3.589 8 8 8-3.589 8-8 8zm0 14c-3.309 0-6-2.691-6-
6s2.691-6 6-6 2.691 6 6-2.691 6-6 6z"></path><path d="M11 9h2v5h-2zM9
2h6v2H9zm10.293 5.707-2-2 1.414-1.414 2 2z"></path></svg> Date Published: {{
p_date }}</p>
                    </div>
                </div>
            </div>
        {% endfor %}
    </div>

{% endblock %}
```

Home.html:

```
{% extends 'base.html' %}

{% block content %}

<div class="container-fluid landing">
    <div class="row">
        {% for source, title, desc, author, img, p_date, url in articles %}
            <div class="col-md-4 d-flex justify-content-center">
                <div class="card mb-3 bg-dark text-white">
                    
                    <div class="card-body">
                        <p class="card-text source">{{ source.name }}</p>
                        <a href="{{ url }}">
                            <h2 class="card-title"><b> {{ title }} </b></h2>
                        </a>
                        <p class="card-text">{{ desc }}</p>
                        <p class="card-text"><svg
xmlns="http://www.w3.org/2000/svg" width="24" height="24" viewBox="0 0 24 24"
style="fill: rgba(255, 255, 255, 1);transform: ;msFilter:; "><path d="M12 2C6.579
2 2 6.579 2 12s4.579 10 10 10-4.579 10-10S17.421 2 12 2zm0 5c1.727 0 3 1.272 3
3s-1.273 3-3 3c-1.726 0-3-1.272-3-3s1.274-3 3-3zm-5.106 9.772c.897-1.32 2.393-2.2
4.106-2.2h2c1.714 0 3.209.88 4.106 2.2C15.828 18.14 14.015 19 12 19s-3.828-.86-
5.106-2.228z"></path></svg> Author: {{ author }}</p>
                    </div>
                    <div class="card-footer">
                        <p class="card-text published"><svg class="p-svg"
xmlns="http://www.w3.org/2000/svg" width="24" height="24" viewBox="0 0 24 24"
style="fill: rgba(255, 255, 255, 1);transform: ;msFilter:; "><path d="M12 5c-4.411
0-8 3.589-8 8s3.589 8 8 8-3.589 8-8 3.589-8-8-8zm0 14c-3.309 0-6-2.691-6-
6s2.691-6 6-6 2.691 6 6-2.691 6-6 6z"></path><path d="M11 9h2v5h-2zM9
2h6v2H9zm10.293 5.707-2-2 1.414-1.414 2 2z"></path></svg> Date Published: {{
p_date }}</p>
                    </div>
                </div>
            </div>
        {% endfor %}
    </div>
</div>

{% endblock %}
```

Science.html:

```
{% extends 'base.html' %}

{% block content %}

<div class="container-fluid landing">
  <div class="row">
    {% for source, title, desc, author, img, p_date, url in sources %}
    <div class="col-md-4 d-flex justify-content-center">
      <div class="card mb-3 bg-dark text-white">
        
        <div class="card-body">
          <p class="card-text source">{{ source.name }}</p>
          <a href="{{ url }}">
            <h2 class="card-title"><b> {{ title }} </b></h2>
          </a>
          <p class="card-text">{{ desc }}</p>
          <p class="card-text"><svg xmlns="http://www.w3.org/2000/svg"
width="24" height="24" viewBox="0 0 24 24" style="fill: rgba(255, 255, 255,
1);transform: ;msFilter:; "><path d="M12 2C6.579 2 2 6.579 2 12s4.579 10 10 10-
4.579 10-10S17.421 2 12 2zm0 5c1.727 0 3 1.272 3 3s-1.273 3-3 3c-1.726 0-3-1.272-
3-3s1.274-3 3-3zm-5.106 9.772c.897-1.32 2.393-2.2 4.106-2.2h2c1.714 0 3.209.88
4.106 2.2C15.828 18.14 14.015 19 12 19s-3.828-.86-5.106-2.228z"></path></svg>
Author: {{ author }}</p>
        </div>
        <div class="card-footer">
          <p class="card-text published"><svg class="p-svg"
xmlns="http://www.w3.org/2000/svg" width="24" height="24" viewBox="0 0 24 24"
style="fill: rgba(255, 255, 255, 1);transform: ;msFilter:; "><path d="M12 5c-4.411
0-8 3.589-8 8s3.589 8 8 8-3.589 8-8 8-3.589-8-8-8zm0 14c-3.309 0-6-2.691-6-
6s2.691-6 6-6 6-2.691 6-6 6z"></path><path d="M11 9h2v5h-2zM9
2h6v2H9zm10.293 5.707-2-2 1.414-1.414 2 2z"></path></svg> Date Published: {{
p_date }}</p>
        </div>
      </div>
    </div>
    </div>
    </div>
    {% endfor %}
  </div>
{% endblock %}
```

Source.html:

```
{% extends 'base.html' %}

{% block content %}

<div class="container-fluid landing">
    <div class="row">
        {% for source in newsSource %}
            <div class="col-md-3 d-flex justify-content-center source-body">
                <div class="card bg-dark">
                    <div class="card-body">
                        <a href="{{ source.url }}" target="_blank">
                            <h5 class="card-title"><svg
xmlns="http://www.w3.org/2000/svg" width="36" height="36" viewBox="0 0 24 24"
style="fill: rgba(255, 255, 255, 1);transform: ;msFilter:; "><path d="M12 2C6.486
2 2 6.486 2 12s4.486 10 10 4.486 10-10S17.514 2 12 2zM4 12c0-.899.156-
1.762.431-2.569L6 11l2 2v2l2 2 1 1v1.931C7.061 19.436 4 16.072 4 12zm14.33
4.873C17.677 16.347 16.687 16 16 16v-1a2 2 0 0 0-2-2h-4v-3a2 2 0 0 0 2-2V7h1a2 2
0 0 0 2-2v-.411C17.928 5.778 20 8.65 20 12a7.947 7.947 0 0 1-1.67
4.873z"></path></svg> {{ source.name }}</h5>
                            <p class="card-text">{{ source.description }}</p>
                        </a>
                    </div>
                </div>
            </div>
        {% endfor %}
    </div>
</div>

{% endblock %}
```

Sport.html:

```
{% extends 'base.html' %}

{% block content %}

<div class="container-fluid landing">
    <div class="row">
        {% for source, title, desc, author, img, p_date, url in sources %}
            <div class="col-md-4 d-flex justify-content-center">
                <div class="card mb-3 bg-dark text-white">
                    
                    <div class="card-body">

```

```

        <p class="card-text source">{{ source.name }}</p>
        <a href="{{ url }}">
            <h2 class="card-title"><b> {{ title }} </b></h2>
        </a>
        <p class="card-text">{{ desc }}</p>
        <p class="card-text"><svg xmlns="http://www.w3.org/2000/svg"
width="24" height="24" viewBox="0 0 24 24" style="fill: rgba(255, 255, 255,
1);transform: ;msFilter:; "><path d="M12 2C6.579 2 2 6.579 2 12s4.579 10 10 10-
4.579 10-10S17.421 2 12 2zm0 5c1.727 0 3 1.272 3 3s-1.273 3-3 3c-1.726 0-3-1.272-
3-3s1.274-3 3-3zm-5.106 9.772c.897-1.32 2.393-2.2 4.106-2.2h2c1.714 0 3.209.88
4.106 2.2C15.828 18.14 14.015 19 12 19s-3.828-.86-5.106-2.228z"></path></svg>
Author: {{ author }}</p>
    </div>
    <div class="card-footer">
        <p class="card-text published"><svg class="p-svg"
xmlns="http://www.w3.org/2000/svg" width="24" height="24" viewBox="0 0 24 24"
style="fill: rgba(255, 255, 255, 1);transform: ;msFilter:; "><path d="M12 5c-4.411
0-8 3.589-8 8s3.589 8 8 8-3.589 8-8-3.589-8-8-8zm0 14c-3.309 0-6-2.691-6-
6s2.691-6 6-6 6-2.691 6-6 6z"></path><path d="M11 9h2v5h-2zM9
2h6v2H9zm10.293 5.707-2-2 1.414-1.414 2 2z"></path></svg> Date Published: {{
p_date }}</p>
    </div>
</div>
</div>
    <div>
        {{% endfor %}}
    </div>
</div>
{{% endblock %}}

```

Signup.html:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Signup</title>
    <link rel="Stylesheet" href="{{ url_for('static', filename='Signup.css') }}">
</head>
<body>
    <nav>
        <ul class="navigation">

```

```

        <div class="brand">
<!-- Making menu icon clickable to display the navigation menu on smaller screens
-->
        <i onclick="navToggle()" id="nav-icon" class="fa fa-navicon"
style="font-size:24px"></i>
    </div>

    <div id="toggle" class="nav-container">
        <a class="left" href="/"><li>GO BACK HOME</li></a>
    </div>
</ul>
</nav>
<!-- NAVIGATION END HERE -->

<section class="form">
<div class="center">
    <h1>JOIN OUR <b style="color: #7a44dd ;">NEWS TRACKING APPLICATION</b> TO
KNOW ABOUT THE NEWS</h1>
    <hr width="20%" style="border: 1px solid #6a29e4;">
    <br>

    <form action="">
        <input class="name-surname" type="text" name="name"
placeholder="firstname">
        <input class="name-surname" type="text" name="surname"
placeholder="lastname"><br>
        <input type="text" name="email" placeholder="emailid"><br>
        <br> <input type="password" name="password" placeholder="password"><br>
        <input type="password" name="conf_password"
placeholder="confirmpassword"><br>

        <button formaction="/">JOIN</button>
        <p>Already have an account? <a href="/Login">Login Here</a></p>
    </form>
</div>

</section>

<!-- FOOTER STARTS HERE -->

    <footer>
        <div class="footer_container">
            <p class="bottom_text">ONE TAP™ - Copyright © 2018 All Rights
Reserved.</p>

```



```

        </div>
    </footer>

<!-- FOOTER ENDS HERE -->
</body>
</html>

```

Login.html:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <link rel="Stylesheet" href="{{ url_for('static', filename='Login.css') }}">
</head>
<body>

    <section class="login">
        <div class="signup">
            <form action="">
                <h5>Click here to create a new Account</h5>
                <button formaction="/Signup">SignUp</button>
            </form>
        </div>
        <div class="login_box">
            <div class="left">
                <div class="top_link"><a href="/">Return home</a></div>
                <div class="contact">
                    <form action="">
                        <h3>SIGN IN</h3>
                        <input type="text" placeholder="USERNAME">
                        <input type="password" placeholder="PASSWORD">
                        <button class="submit" formaction="/">LET'S GO</button>
                    </form>
                </div>
            </div>
            <div class="right">
                <div class="right-text">
                    <h2>News Tracker</h2>
                    <h5>Login to know about what is happening??</h5>

```

```
        </div>

    </div>
</section>
</body>
</html>
```

Signup.css:

```
@import url('https://fonts.googleapis.com/css?family=Abel' );

body {
    background-color: #ffffff;
    font-family: 'Abel', sans-serif;
    color: #333;
    margin: 0;
}

a {
    color: #daa800;
    text-decoration: none;
    transition: 1s;
}

a:hover {
    text-decoration: none;
    color: #daa800;
    opacity: 0.8;
    transition: 1s;
}

p {
    color: #0f0f0f;
}

h1 {
    font-weight: normal;
}

/*
=====
*/

section.form {
```

```
    opacity: 1;
    background-color: transparent;
    padding: 20px;
    text-align: center;
    color: #161515;
}

.center {
    margin-right: auto;
    margin-left: auto;
    display: block;
    width: 400px;
    margin-top: 100px;
    margin-bottom: 60px;
}

input {
    opacity: 0.3;
    border-radius: 20px;
    padding: 10px;
    width: 80%;
    display: block;
    margin-right: auto;
    margin-left: auto;
    margin-bottom: 10px;
    box-shadow: none;
    color: rgb(24, 22, 22);
    border: none;
    background-color: #97d6f3;
    transition: 1s;
    border: 2px solid transparent;
}

input:focus, input:hover {
    transition: 1s;
    border: 2px solid #5d5d5d;
    background-color: transparent;
}

.name-surname {
    width: 36%;
    display: inline;
}

.checkbox{
    display: flex;
```

```
flex-wrap: wrap;
align-items: center;
justify-content: center;
}
input[type="checkbox"]{
  -webkit-appearance: none;
  appearance: none;
  display: none;
}
label{
  position: relative;
  display: block;
  padding: 2px 25px;
  border-radius: 20px;
  text-align: center;
  line-height: 30px;
  color: #0e0d0d;
  margin: 4px;
  font-family: 'poppins', sans-serif;
  transition: .2s;
  background-color: transparent;
}
label::after{
  content: "";
  position: absolute;
  top: -2px;
  left: -2px;
  width: 100%;
  height: 100%;
  z-index: -1;
  border: 2px solid orange;
  border-radius: 20px;
  transform: scale(.9);
  opacity: 0;
  transition: .2s;
}
input:checked + label::after{
  border-color: #daa800;
  opacity: 1;
  transform: scale(1);
}
input:checked + label{
  color: #daa800;
  border: none;
  background: none;
```

```
}  
button {  
    width: 86%;  
    border-radius: 20px;  
    background-color: #fdfcfc;  
    margin-left: auto;  
    margin-right: auto;  
    display: block;  
    box-shadow: none;  
    text-shadow: none;  
    border: none;  
    padding: 10px;  
    font-family: 'Abel', sans-serif;  
    transition: 1s;  
}
```

```
button:hover {  
    background-color: #daa800;  
    transition: 1s;  
}
```

```
/*  
===== * /
```

```
/* FOOTER STARTS HERE */
```

```
footer {  
    background-color: #93c6da;  
    color: #fff;  
    width: 100%;  
}
```

```
.footer_container {  
    padding: 20px;  
    text-align: center;  
    float: none;  
}
```

```
.footer_container .bottom_text {  
    font-size: 14px;  
    text-transform: uppercase;  
}
```

```
.social_icons {  
    margin-left: auto;
```

```
margin-right: auto;
display: block;
}
/* FOOTER ENDS HERE */

/* NAVIGATION STARTS HERE */
.navigation {
margin: 0;
}

.brand { /* Your brand logo */
border-right: 0.5px solid #40e60e;
font-size: 16px;
line-height: 50px;
display: inline;
margin-right: 30px;
padding-right: 40px;
}

.nav-container {
display: inline;
}

/* Added font-size: 0; to get rid of the space between lists */
nav {
width: 100%;
background-color: #93c6da;
margin: 0;
font-size: 0;
padding-left: 10px;
padding-right: 10px;
color: rgb(19, 18, 18);
position: fixed;
z-index: 1;
}

/* Declaring font-size for the anchor element to be 16px since it is 0 on the
above code */
nav a {
font-size: 16px;
}

ul {
display: inline;
margin: 0;
```

```
        overflow: hidden;
        list-style-type: none;
    }

    /* Adding background color to the li element and vertically centering the words
    in the li element */
    ul li {
        display: inline;
        margin: 0;
        padding: 14px;
        line-height: 50px;
        background-color: #1b1a1b;
        transition: 1s;
    }

    ul li:hover {
        transition: 1s;
        background-color: transparent;
    }

    ul a { /* Removing the 'underline' from the link */
        text-decoration: none;
    }

    ul a:hover { /* Removing the 'underline' from the link on the 'hover effect' */
        text-decoration: none;
    }

    ul a li {
        display: inline;
        text-decoration: none;
        color: rgb(22, 20, 20);
        margin: 0;
        text-transform: uppercase;
        background-color: transparent;
        transition: 1s;
    }

    ul a li:hover {
        transition: 1s;
        background-color: #87cde9;
        color: #daa800 ;
    }

    .left {
```

```
float: right;
margin-right: 30px;
}

#nav-icon {
display: none;
transition: 1s;
}

@media only screen and (max-width: 816px) {
    nav, .navigation {
padding: 0;
    }

    .brand {
line-height: 50px;
border: none;
margin-right: auto;
margin-right: auto;
display: block;
width: 100%;
padding-top: 7px;
padding-bottom: 7px;
padding-left: 20px;
padding-right: 20px;
    }

    .left {
float: none;
margin-right: 0;
transition: 1s;
    }

    nav ul li {
display: block;
text-align: center;
width: 100%;
transition: 1s;
padding: 7px;
    }

    #nav-icon {
display: inline;
float: right;
line-height: 50px;
    }
```



```
}  
}  
  
/* NAVIGATION ENDS HERE */
```

Login.css:

```
@import url('https://fonts.googleapis.com/css?family=Abel' );  
  
body {  
    background-color: #ffffff;  
    font-family: 'Abel', sans-serif;  
    color: #333;  
    margin: 0;  
}  
  
a {  
    color: #daa800;  
    text-decoration: none;  
    transition: 1s;  
}  
  
a:hover {  
    text-decoration: none;  
    color: #daa800;  
    opacity: 0.8;  
    transition: 1s;  
}  
  
p {  
    color: #0f0f0f;  
}  
  
h1 {  
    font-weight: normal;  
}  
  
/*  
=====
```

```
padding: 20px;
text-align: center;
color: #161515;
}

.center {
margin-right: auto;
margin-left: auto;
display: block;
width: 400px;
margin-top: 100px;
margin-bottom: 60px;
}

input {
opacity: 0.3;
border-radius: 20px;
padding: 10px;
width: 80%;
display: block;
margin-right: auto;
margin-left: auto;
margin-bottom: 10px;
box-shadow: none;
color: rgb(24, 22, 22);
border: none;
background-color: #97d6f3;
transition: 1s;
border: 2px solid transparent;
}

input:focus, input:hover {
transition: 1s;
border: 2px solid #5d5d5d;
background-color: transparent;
}

.name-surname {
width: 36%;
display: inline;
}

.checkbox{
display: flex;
flex-wrap: wrap;
align-items: center;
```

```
        justify-content: center;
    }
    input[type="checkbox"]{
        -webkit-appearance: none;
        appearance: none;
        display: none;
    }
    label{
        position: relative;
        display: block;
        padding: 2px 25px;
        border-radius: 20px;
        text-align: center;
        line-height: 30px;
        color:#0e0d0d;
        margin: 4px;
        font-family: 'poppins',sans-serif;
        transition: .2s;
        background-color: transparent;
    }
    label::after{
        content: "";
        position: absolute;
        top: -2px;
        left: -2px;
        width: 100%;
        height: 100%;
        z-index: -1;
        border: 2px solid orange;
        border-radius: 20px;
        transform: scale(.9);
        opacity: 0;
        transition: .2s;
    }
    input:checked + label::after{
        border-color: #daa800;
        opacity: 1;
        transform: scale(1);
    }
    input:checked + label{
        color: #daa800;
        border: none;
        background: none;
    }
    button {
```

```
width: 86%;
border-radius: 20px;
background-color: #fdfcfc;
margin-left: auto;
margin-right: auto;
display: block;
box-shadow: none;
text-shadow: none;
border: none;
padding: 10px;
font-family: 'Abel', sans-serif;
transition: 1s;
}

button:hover {
    background-color: #daa800;
    transition: 1s;
}

/*
=====
===== */

/* FOOTER STARTS HERE */
footer {
    background-color: #93c6da;
    color: #fff;
    width: 100%;
}

.footer_container {
    padding: 20px;
    text-align: center;
    float: none;
}

.footer_container .bottom_text {
    font-size: 14px;
    text-transform: uppercase;
}

.social_icons {
    margin-left: auto;
    margin-right: auto;
    display: block;
```

```
}
/* FOOTER ENDS HERE */

/* NAVIGATION STARTS HERE */
.navigation {
    margin: 0;
}

.brand { /* Your brand logo */
    border-right: 0.5px solid #40e60e;
    font-size: 16px;
    line-height: 50px;
    display: inline;
    margin-right: 30px;
    padding-right: 40px;
}

.nav-container {
    display: inline;
}

/* Added font-size: 0; to get rid of the space between lists */
nav {
    width: 100%;
    background-color: #93c6da;
    margin: 0;
    font-size: 0;
    padding-left: 10px;
    padding-right: 10px;
    color: rgb(19, 18, 18);
    position: fixed;
    z-index: 1;
}

/* Declaring font-size for the anchor element to be 16px since it is 0 on the
above code */
nav a {
    font-size: 16px;
}

ul {
    display: inline;
    margin: 0;
    overflow: hidden;
    list-style-type: none;
```

```
}

/* Adding background color to the li element and vertically centering the words
in the li element */
ul li {
    display: inline;
    margin: 0;
    padding: 14px;
    line-height: 50px;
    background-color: #1b1a1b;
    transition: 1s;
}

ul li:hover {
    transition: 1s;
    background-color: transparent;
}

ul a { /* Removing the 'underline' from the link */
    text-decoration: none;
}

ul a:hover { /* Removing the 'underline' from the link on the 'hover effect' */
    text-decoration: none;
}

ul a li {
    display: inline;
    text-decoration: none;
    color: rgb(22, 20, 20);
    margin: 0;
    text-transform: uppercase;
    background-color: transparent;
    transition: 1s;
}

ul a li:hover {
    transition: 1s;
    background-color: #87cde9;
    color: #daa800 ;
}

.left {
    float: right;
    margin-right: 30px;
}
```

```
}

#nav-icon {
  display: none;
  transition: 1s;
}

@media only screen and (max-width: 816px) {
  nav, .navigation {
    padding: 0;
  }

  .brand {
    line-height: 50px;
    border: none;
    margin-right: auto;
    margin-right: auto;
    display: block;
    width: 100%;
    padding-top: 7px;
    padding-bottom: 7px;
    padding-left: 20px;
    padding-right: 20px;
  }

  .left {
    float: none;
    margin-right: 0;
    transition: 1s;
  }

  nav ul li {
    display: block;
    text-align: center;
    width: 100%;
    transition: 1s;
    padding: 7px;
  }

  #nav-icon {
    display: inline;
    float: right;
    line-height: 50px;
  }
}
```

```
/* NAVIGATION ENDS HERE */
```

Style.css:

```
* {  
  
  font-family: 'Overpass', Tahoma, Geneva, Verdana, sans-serif;  
  background-color: #1e1e21;  
  color: #fff;  
}  
  
p {  
  font-size: 14px;  
}  
  
a {  
  text-decoration: none;  
  color: #fff;  
}  
  
a:hover {  
  text-decoration: none;  
  color: #fff;  
}  
  
.landing {  
  margin-top: 100px;  
}  
  
#navbarToggle {  
  background-color: #000;  
}  
  
.navbar.navbar-dark .nav-item .nav-link {  
  color: #fff!important;  
  background-color: #000;  
}  
  
.navbar.navbar-dark .nav-item .nav-link:hover {  
  color: #fff!important;  
  background-color: #000;  
}  
  
.navbar {
```



```
    background-color: #000!important;
}

.navbar-nav {
    background-color: #000;
}

.navbar-brand {
    background-color: #000;
}

.lg {
    background-color: #000;
    font-size: xx-large;
}

h1 {
    font-size: 33px;
    color: #dfdc9;
}

h2 {
    font-size: 1.5em;
    color: #dfdc9;
}

.author {
    font-size: 12px;
}

.date {
    font-size: 12px;
}

.article-card {
    position: relative;
    display: -ms-flexbox;
    display: flex;
    -ms-flex-direction: column;
    flex-direction: column;
    min-width: 0;
    color: #000;
    background-color: #fff;
    word-wrap: break-word;
    background-clip: border-box;
```

```
border-radius: 10px;
margin-top: 15px;
}

.img {
  width: 100%;
}

.image-fluid {
  height: 18em;
}

.cardfooter {
  padding: 0.75rem 1.25rem;
  padding-bottom: 0px;
  border-radius: 0px 0px 10px 10px;
}

.article_name {
  color: #dfdcd9;
}

.source-body {
  margin-bottom: 30px;
}

.source {
  margin-top: 5px;
  padding-top: 5px;
  padding-bottom: 0px;
  margin-bottom: 0px;
  color: #dd0000;
}

.logo {
  color: #dd0000;
  background-color: #000;
}

.svg {
  background-color: #000;
}

.p-svg {
  background-color: #26262a;
}
```

```
}

.footer {
  background-color: #000;
  padding-top: 20px;
  padding-bottom: 15px;
}

.footer-text {
  background-color: #000;
  margin-bottom: 0px;
}

.dropdown-menu {
  background-color: #1e1e21;
}

.dropdown-item {
  color: #fff;
}

.dropdown-item:hover {
  color: #fff;
  background-color: #26262a;
}

.published {
  background-color: #26262a;
}

.card-footer {
  background-color: #26262a;
}
```

GitHub & Project Demo Link

GitHub Link:

<https://github.com/IBM-EPBL/IBM-Project-29609-1660127674>

Project Demo Link:

<https://onetap.s3.eu.cloud-object-storage.appdomain.cloud/OneTapDemo.m4>