

News Tracker Application

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Detailed Contents

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

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

7.1 Feature 1

7.2 Feature 2

7.3 Database Schema (if Applicable)

8. TESTING

8.1 Test Cases

8.2 User Acceptance Testing

9. RESULTS

9.1 Performance Metrics

10. ADVANTAGES & DISADVANTAGES

11. CONCLUSION

12. FUTURE SCOPE

13. APPENDIX

13.1 Source Code

13.2 GitHub & Project Demo Link

1. INTRODUCTION

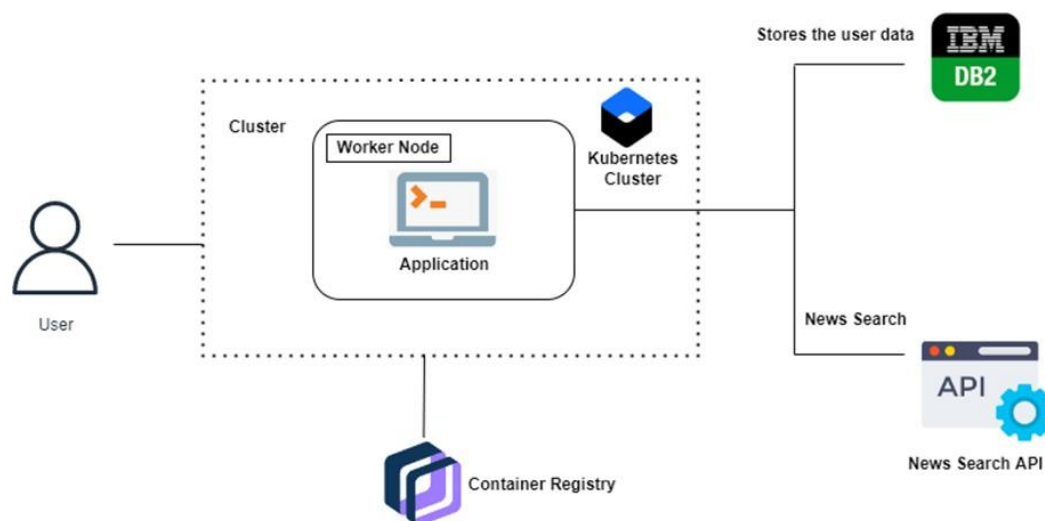
1.1 Project Overview

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

Today, the publishing industry is facing such a threat when it comes to newspaper publishing and sales. So, magazine and newspaper lovers are moving towards reading news on mobiles and tablets. The revenue models of the online apps are quite simple and rewarding. They run ads and generate a good amount of money.

Project Workflow:

- The user interacts with the application.
- Registers by giving the details.
- Integrate the application with news APIs and store the data in the database.
- The database will have all the details and the user can search the news by using a search bar.



1.2 Purpose

A news app permits you to gather information regarding the users' behavior and interests and improve it to organize content depending on the individual's requirements. If you follow some big publishers, you can see that their news apps are just a mobile-friendly version of their sites

News articles are written to inform and educate readers on current affairs/events. They are used to provide readers with information they need/want to know about the world around them.

Here are some amazing features which news app offers:

User Interface

It is an old saying “first impression is the last impression”. So the developer should make sure that the application should leave a mark on the users. This is where you need to focus on bringing interactive, visual and architectural designs as well. It means that the content should be distributed in the app such that the screen do not appear crowded with the content.

Filter content

The option of filtering the content based on different category should be incorporated in the app to provide the audience wide taste and sensibilities. So the users can read news that matters to them.

Easy offline access

When a user is not online due to some reason he/she should have to access to the internet. Whenever the user is online the news content is downloaded in the cache memory of the app, this is how a user can access to the content offline.

Social Media integration

This will help the users to share news on various platforms such as Twitter and Facebook. This will not only give an amazing user experience and also will also increase the views.

2. LITERATURE SURVEY

2.1 Existing problem

News app without spam, fake and irrelevant news:

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.

Assumptions about the User:

- Spamming of messages usually leads to clearing of the content without viewing thus probably leading the user to lose access to important information.
- Too many notifications irritate the users and it clutters the bar on their phone
- Irrelevant news makes the user stop viewing the news thus losing access to credible news
- Users don't want to spend time reading the entire content. They need short and crisp news
- Using multiple apps because users are not getting the content categories they want in one app.
- The user doesn't want to waste time figuring out the relevance of the news
- Young people don't read news from apps, usually depend on social media to get updated
- Users sometimes get overwhelmed by too many categories
- Users only check their phones and go through these notifications when they are free or during a particular time of the day when they are doing time pass
- Ads in the apps might irritate the user while reading the news
- One app not accommodating both the regional and international news might create a requirement for different apps

Assumptions about the business:

- News apps are trying to be like social media apps
- Businesses have to publish irrelevant news because younger generations prefer news with more fun instead of reliable news.
- News apps want to increase the time that user spends on their app so that they can show ads and generate revenue
- To increase the user screen time, news apps make users encounter eye-catching news rather than credible ones
- Assuming that this business started booming more during the pandemic
- Apps generate income through subscriptions.

2.2 References

2.2.1 Paper Title: Android News App

Author(s) Brijesh Joshi, Nehal Patel

Published on 2018

Abstract

As world's technology is rapidly growing we has fast connection and network to instantly connect to other person. Day to day use in mobile, tablets and laptop is increasing, most of the people already have these facilities. In this fast and information oriented world we need to stay updated with every incidents and news too. This News app is android mobile application where user have access to latest news from 120+ newspapers from 50+ countries. The main focus of this application is to connect news articles from all around the world and deliver it to user as fast as possible in best visualize way.

Android provides simple application structure and requires Java and Mark-up languages knowledge to work with. Such as, an discrete movement delivers a solitary screen for a user interface and a service whole completes work in the contextual [1]. We can work on different module separately and can combine at the end, we can also add future modules easily afterwards.

API (Application Programming Interface) which is an intermediate interface between different applications. It provides automation, immediacy, adaption and personalization. News API provides us the source of news articles from many different sources at one place and updates it. To expand the sources old fashioned Admin panel can be used where writers will fill the gap of API.

In 2014, a design language has been created by google named Material Design which is based on "cards" uses grind based layouts, responsive animation, padding and depth effects like shadow to create an responsive, attractive and easy user interface. With the use of different libraries and material design it is possible to use attractive UI.

Source: International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 11 (2018) pp. 9310-9315

2.2.2 Paper Title: Exploring mobile news reading interactions for news app personalisation

Author(s) Marios Constantinides , John Dowell , David Johnson , Sylvain Malacria Published on 2015

Abstract

As news is increasingly accessed on smartphones and tablets, the need for personalising 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 benefit of the adaptation for different users of the news app and the feasibility of adaptive interfaces for news apps

Mobile app ecosystems are transforming patterns of news consumption. Until quite recently, reading the news was a niche use for smartphones [12], mostly for when users were 'on the go'; now however, two in every three users of mobile devices in the US regularly access news and as many as one in five read in-depth news articles daily [2]; a similar picture is found in the UK [1]. This growth in mobile news access continues the migration of news consumers to the Internet.

Mobile news access perfectly complements the continuously updating, 24-hour nature of digital news services. But if users are now never out of range of the news, they need more than ever for that access to be adaptive and personalised. Personalised news services are already able to help people find news that is relevant to them, to recommend the right news to the right users, and to help users keep abreast of news by aggregation over multiple sources. This adaptivity is achieved through several methods [5] including: news content personalisation by pushing filtered articles predicted to match the user's interests; adaptive news browsing by changing the order of news categories; contextual news access by offering users access to additional information related to the news they are reading; and news aggregation, by automatically identifying main news topics emerging from multiple sources. This previous work on adaptivity in digital news access has focused on recommendation of news content. But, adaptation of the way people interact with news services has not been investigated.

In this paper we report an investigation into implicit profiling and adaptive user interfaces for mobile news apps. First, a survey was conducted to examine news reading behaviour of users of mobile devices. A cluster analysis revealed three main types of mobile news reader characterized by five factors. Second, a study was conducted to investigate whether users of a news app could be identified in relation to the three types using a dedicated news app (Fig. 1), logging user's interactions during two weeks. Five characteristic factors were extracted from

these logs and were used for training a classifier. Finally, a design of adaptive user interfaces for each of the three news reader types was evaluated. Our results suggest that different reader types would benefit from different user interfaces.

Source: https://www.researchgate.net/publication/299870645_Exploring_mobile_news_reading_interactions_for_news_app_personalisation

2.2.3 Paper Title: Implementing a Mobile Application News Tool for Disseminating Messages and Events of AlBuraimi University College

Author(s): Ghalia Musallam ALFarsi, Jasiya Jabbar, Maryam ALSinani

Published on 2018

Abstract

Technology is developing and changing in every moment that all domains are patchy without it. Our research utilizes the current trends and technology to design and develop a mobile application for the all members of the college. The students are the fundamental members in the college and they are our targets. Mobile notification system is an emerging technology, which influence in solving various dimensions of life. The college announcements and events are disseminated to students and staff through circulars, notice boards, emails, etc. Our research was to employ mobile affinity of especially students who ignore the circulars and notifications in notice board. The tool may be installed from play store mobile. The tool supports the widely used mobile operating system like android and iphone. This tool helps and provides a flexible way for communication. It list all events and news at AlBuraimi University College (BUC) like announcement of training courses and scientific workshop or classes cancel and others events. It also helps in easy access of college portal for both students and staff. The evaluation held finds positive response towards the need of this mobile application. The result shows the interest and satisfaction of users with BUC NEWS mobile application tool.

Introduction:

Mobile is one of the most important technologies in today's industry. Mobile phones are efficient communication devices and make life easier. The importance and uses of mobile are inexplicable which include communication, storage, entertainment, application, etc. Mobile phone applications broaden the effectiveness of mobile phones. It is important in all areas of life, especially education; it is indispensable in education and in information system areas stated in [1] [2] [3] [4]

One of important tools in the education institute is the mobile. Sohail et al (2013) introduced mobile supported learning in an introductory programming course at BUC [2]. Almost all mobile applications include features and properties that keep the people enjoyed and thus mobile are indispensable and mandatory in today's fast running life. The use of mobile applications run the

gamut, from utility, productivity, and navigation to entertainment, sports, fitness, and just about any others imaginable. The speed of using and the interface of the mobile which is easy to use and clear steps as the mobile will pay and use it is positive relationship[3]. The other application area of mobile is utilizing it to give alerts for news. The amount of consumer use of news alerts has increased in several states during the past three years[4][1].

A mobile operating system is an operating system that is specifically designed to run on mobile devices such as mobile phones, smartphones, PDAs, tablet computers and other handheld devices. Some popular mobile operating systems are Android, Bada, Blackberry, iPhone, Palm, Symbian, etc. Out of these mobile OSs, most of the mobiles use Android and iPhone operating system in this current generation. Because of this reason and as the interaction of it with the user is very easy and simple; we implemented our application in it. A study conducted by M. Al-Emran et al (2016) states that 99% of students of universities in Oman and UAE have and use mobiles[5]. In this research, we develop an application that gives news of the college to all members in the college. The news will move from the website to fit to the user's screens directly at the same time.

This research is trying to identify the different technologies used in iPhone and Android application development process and the need of it to be implemented in order to access a wide range of BUC-specific sources[1][3][6][7][2]. It offers a tactic on how to decide which part of news to use and which feature of application want to use. It provides most of the needs for students and members of BUC such as register in courses, calendar of the BUC, etc. This research demonstrates successful execution of mobile portal, which includes features that are commonly accessed across through the website of BUC. This research is to identify the use of iPhone and Android mobile programming software applications in BUC. Some of the uses of this application are to help the students and the users of BUC to receive the important news and information associated with BUC. The application also allows students or faculty to update their contact information using the BUC and to import any information that they need from this application to speed up the student learning [8][9] [13]

This paper comprises a number of sections. It starts with a literature review then the discussion of methodology used is included, followed by a description of analysis or pre-questionnaire, design and development and finally the evaluation of the system. The paper concludes with a summary of the research work, the limitations and future enhancement of the work.

Source: <https://doi.org/10.3991/ijim.v12i7.9484>

2.2.4 Paper Title: TECHNOMANIA

Author(s): RituKumari

Published on 2020

Abstract

The main objective of the project is to provide people a handy[1] android application through which people can access all types of news and information. Through this application, any user can gain technical knowledge of the world and its surrounding with just one click ahead. User does not have to visit multiple sites for different related information. All information is going to be in one place. Many people generally get the redundancy in the information. Sometimes, people even spread fake news, which circulates and spread more like a disease of false information in WhatsApp and other social media. Various myths are also likely to spread as soon as possible which gives more harm than good to the people. This app while cross-checks the redundancy in the information along with the false and misleading information, which later results in panic in the people.

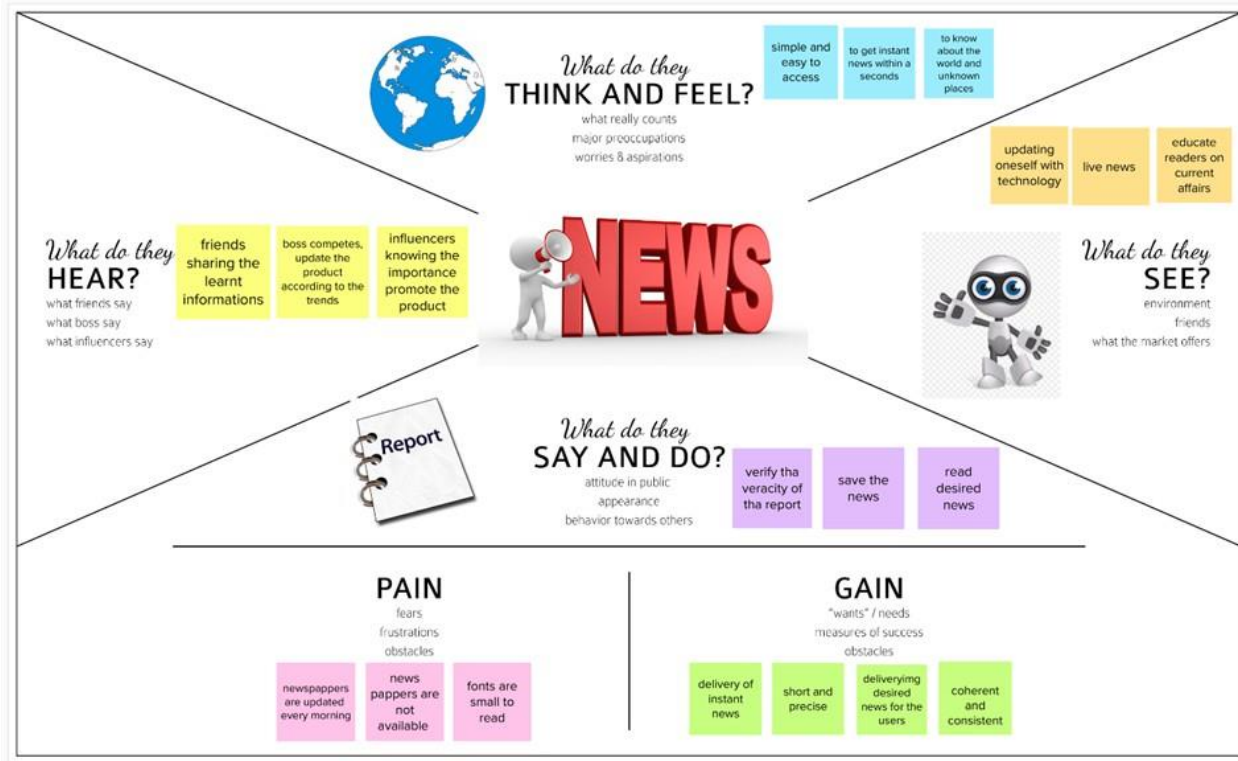
The purpose is to develop an android application, which will eliminate the problems faced in the current scenario. This application will provide all the information and news related to cybersecurity, E-sport, Science, and Technology or that are in trend at one place. So, it will save time and efforts of the users by making it more efficient. Using, this application will terminate the possibility of information redundancy.

2.3 Problem Statement Definition

As world's technology is rapidly growing we have fast connection and network to instantly connect to other person. Day to day use in mobile, tablets and laptop is increasing, most of the people already have this facility. In this fast and information oriented world we need to stay updated with every incidents and news too. This News app is android mobile application where user have access to latest news from 120+ newspapers from 50+ countries. The main focus of this application is to connect news articles from all around the world and deliver it to user as fast as possible in best visualize way.

3. IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas



3.2 Ideation & Brainstorming



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



Before you collaborate

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

🕒 10 minutes



A Team gathering

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



B Set the goal

Think about the problem you'll be focusing on solving in the brainstorming session.



C Learn how to use the facilitation tools

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

[Open article](#) →



1 Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

🕒 5 minutes

PROBLEM

How might we [your problem statement]?



Key rules of brainstorming

To run a smooth and productive session



Stay in topic.



Encourage wild ideas.



Defer judgment.



Listen to others.



Go for volume.



If possible, be visual.

2

Brainstorm

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

🕒 10 minutes

TIP

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

SEETHADEVI

Variety of Topics	Report of current event
Gathering Information	Personal feed
All in One	Educate readers on current affairs

SHARON TRESHA

Short and Precise	Diverse news
Knowledgeable	Easy to access
Efficient	Up-to-date

SUJITHA K

Bring awareness to people	Strengthen vocabulary
Social wellbeing	Makes learning fun
Increasing visibility	Sharing common interest

vaishnavi

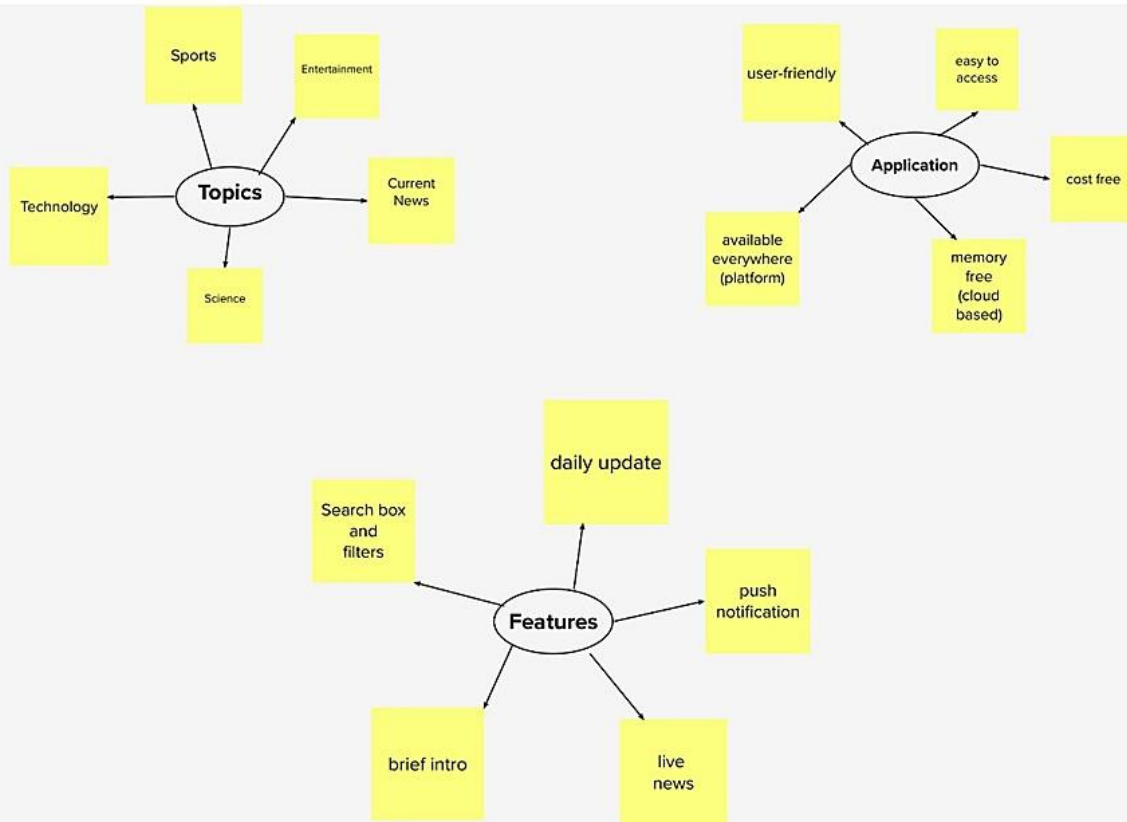
Educate oneself	Search and filters
connect anytime	Push notifications
Entertain the masses	Consistency

3

Group ideas

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

🕒 20 minutes



4

Prioritize

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

🕒 20 minutes



3.3 Proposed Solution

PROBLEM STATEMENT:

As world's technology is rapidly growing we have fast connection and network to instantly connect to other person. Day to day use in mobile, tablets and laptop is increasing, most of the people already have this facility. In this fast and information oriented world we need to stay updated with every incidents and news too. This News app is android mobile application where user have access to latest news from 120+ newspapers from 50+ countries. The main focus of this application is to connect news articles from all around the world and deliver it to user as fast as possible in best visualize way.

IDEA /SOLUTION DESCRIPTION:

We want to create a responsive as well as interactive forum of vivid reader where our service fits our readers need. We value our reader and believe in the future that delves in true and apt knowledge and hence we leave no stone unturned to reach to our readers with news and information which is usually missed. At the same time, we are open to criticism and will always like to hear from our reader on all aspects of creativity. We value interaction and comments from the readers as it adds to both the critical and analytical part of our news and most of the information adds to the value of our article

UNIQUENESS:

This News app offer easy access to every kind of information. Instead of buying a newspaper and adding to the clutter in your bag or on your office desk, it is way easier to open a news app in your smartphone and scroll news on the screen. Besides, news apps save trees. For businesses that publish news, the benefits of a mobile application are enormous. Adapting a mobile-driven approach considerably enhances your audience reach, especially the younger generation. Besides, news apps also make older people more mobile-centered. The larger the audience base, the more the revenue.

SOCIAL IMPACTS/CUSTOMER SATISFACTION:

Since news application feeds and sites are updated every second, social media apps are great tools to publish information about the latest news and trending topics instantly. With an increasing population of people becoming passionate about social media each day, such users strive to stay in-tune with every little detail that is updated on these platforms.

SCALABILITY OF SOLUTION:

Our application response number of request at a time, deliver its solution to user as fast as possible in best visualize way.

3.4 Problem Solution fit

Project Title: News Tracker Application

Project Design Phase-I - Solution Fit

Team ID: PNT2022TMID51114

Define CS, fit into CC	1. CUSTOMER SEGMENT (S) CS <ul style="list-style-type: none"> • Curious people • People of all ages 	6. CUSTOMER CONSTRAINTS CC <ul style="list-style-type: none"> • No network availability • Lack of content 	5. AVAILABLE SOLUTIONS AS <ul style="list-style-type: none"> • Cost free • Time saving • Instant News 	Explore AS, differentiate
	2. JOBS-TO-BE-DONE / PROBLEMS J&P <ul style="list-style-type: none"> • Quality and consistent content • User desired advertisement 	9. PROBLEM ROOT CAUSE RC <ul style="list-style-type: none"> • People need to get instant updation of news • Available anywhere and anytime 	7. BEHAVIOUR BE <ul style="list-style-type: none"> • Users use "HELP" to address their problem • User can rate the application and share their opinion 	
Focus on J&P, tap into BE, understand RC	3. TRIGGERS TR <ul style="list-style-type: none"> • When something gets trendy • When rumors get wild 	10. YOUR SOLUTION SL <ul style="list-style-type: none"> • Replacement of news paper is the news application • News application is short and precise whereas newspaper has load of contents which needs to be fully read to understand 	8. CHANNELS of BEHAVIOUR CH <ul style="list-style-type: none"> 8.1 ONLINE <ul style="list-style-type: none"> • Users have the option to personalise their news to their interests. 8.2 OFFLINE <ul style="list-style-type: none"> • Can download the news in online and read it in offline 	Focus on J&P, tap into BE, understand RC
4. EMOTIONS: BEFORE / AFTER EM <ul style="list-style-type: none"> • Loads of content grouped together • Time consumption 				

4. REQUIREMENT ANALYSIS

4.1 Functional requirement

Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Profile	It should maintain a user profile where the customer registers his/her preferences. It enables the news app to push appropriate notifications depending on the user interests.
FR-4	Push Notifications	The news app can do so by pushing notifications at regular intervals.
FR-5	Updates	The news keeps arriving every minute. Hence, the news app should have the updating facility every five minutes.
FR-6	Choose your favorites	This option allows users to choose their favourite sections. It also helps the news apps to increase their base.

Activate Windows
Go to Settings to activate Windows.

4.2 Non-Functional requirements

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Free access to know the current news. Updated news are go through at any time. portability to all devices. recommended topics are shown at the home page so people can easily find out.
NFR-2	Security	Authenticated users/followers only allow to access the website. If new users want to know the data are checked once based on given input email, id, location etc.... Creators only access the news. Admin profiles and private account details are protected. Illegal activities are changing the data it indicates the warning to the admin.
NFR-3	Reliability	It is flexible. And it avoids fake news.
NFR-4	Performance	Performance is best. It avoids latency.
NFR-5	Availability	Its available in 24/7.So users can find a topic at any time. Many categories are available.

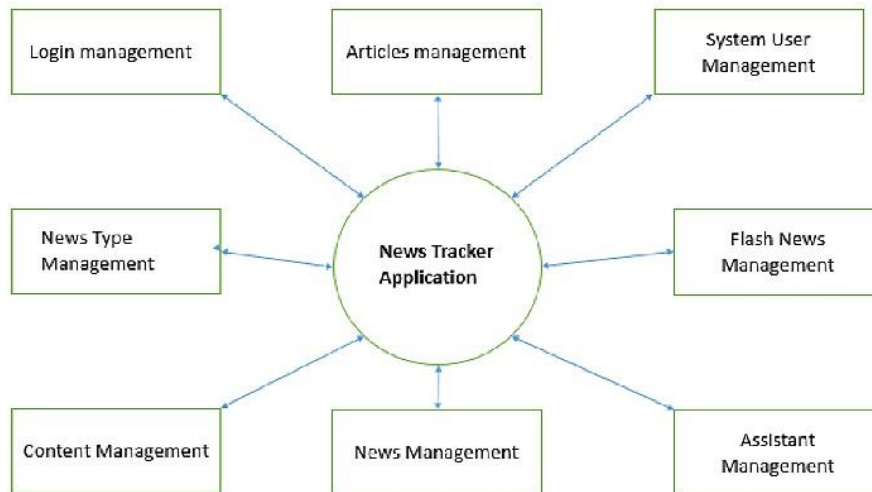
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NFR-6	Scalability	It response number of request at a time, deliver its solution to user as fast as possible in best visualize way.
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5. PROJECT DESIGN

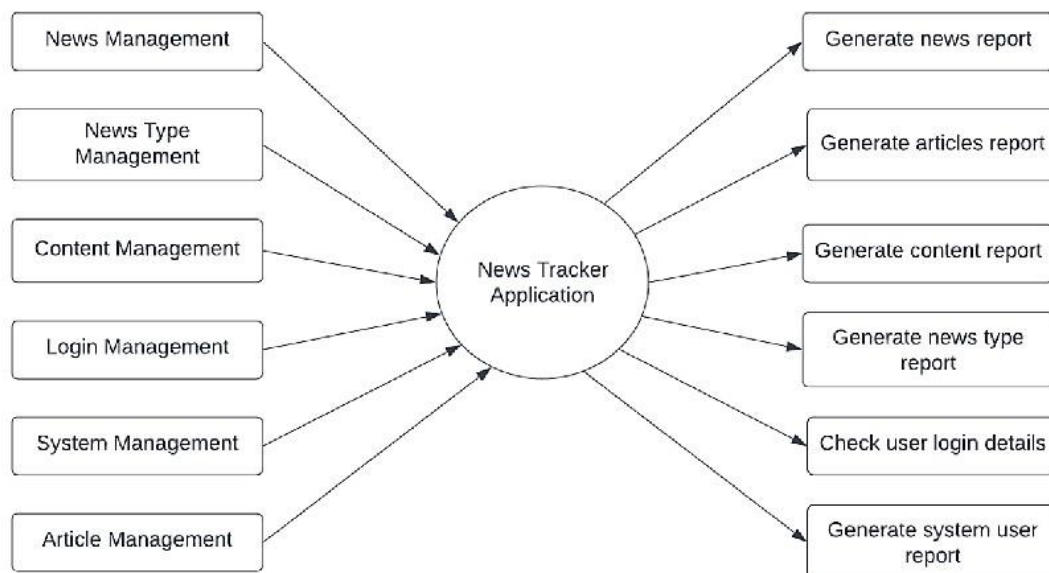
5.1 Data Flow Diagrams

DFD Level 0 – News Tracker Application



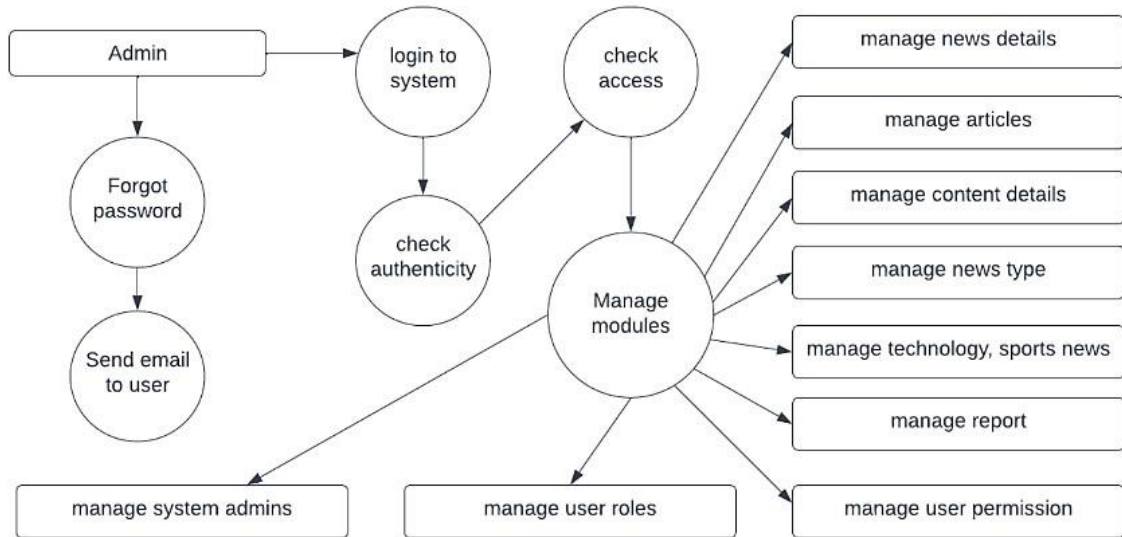
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DFD Level 1 – News Tracker Application



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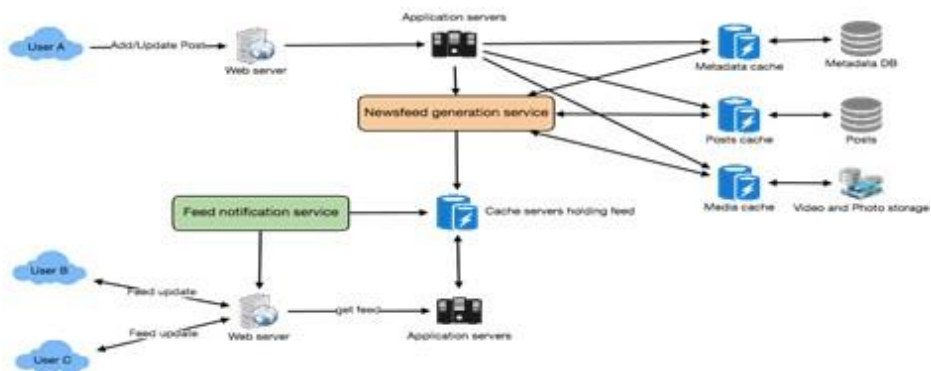
DFD Level 2 – News Tracker Application



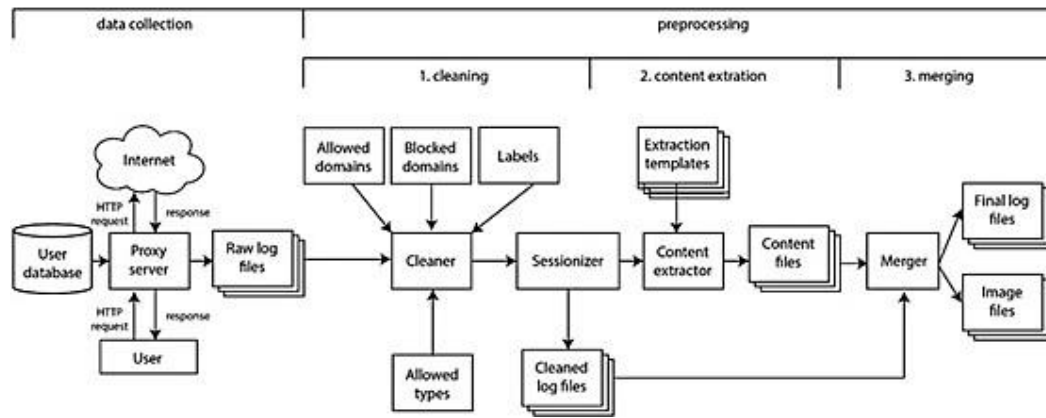
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5.2 Solution & Technical Architecture:

Solution Architecture Diagram:



Work Flow Diagram:



Technical Architecture:

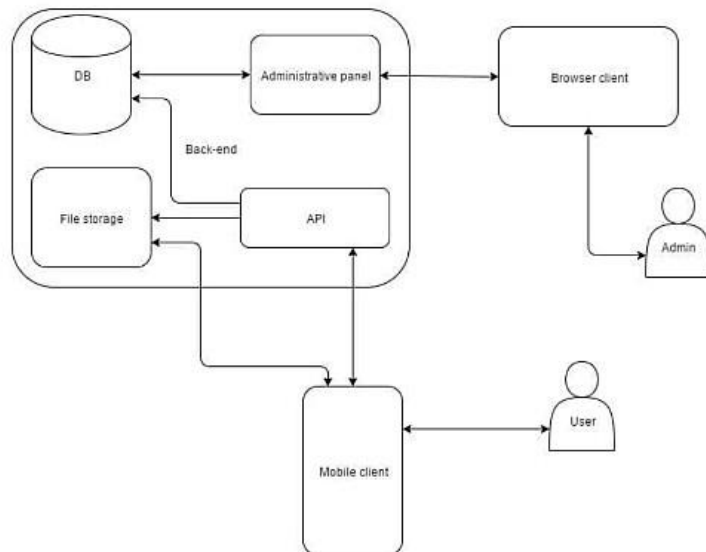


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User uses the application (mobile client) and searches the desired news then the application uses the API to access the information from the file storage.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	This application starts with login page where user sign up or sign in web application	HTML, CSS , Java / Python
3.	Application Logic-2	As a user, I sign up for the news tracker application by giving my email ID, DOB as password and confirming password	IBM Watson STT service
4.	Application Logic-3	User selects the topic and able to view the selected contents	IBM Watson Assistant, Chabot.
5.	Database	User's email and passwords are stored in the database.(Data Type, Configurations etc.)	MySQL, NoSQL, etc.
6.	Cloud Database	Users can access their desired news by using internet which is stored in the cloud database.(Database Service on Cloud)	IBM DB2, IBM Cloudant etc.
7.	File Storage	User's history, bookmarks and their login details are stored in the file storage	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Users must be aware of their vicinity's weather change so it's mandatory to include weather reports.	IBM Weather API, etc.
9.	External API-2	It checks the integrity of the user and authenticates it. The API receives a customer's Aadhar number and an OTP as input, using which it retrieves and collects KYC information such as full name, date of birth, address, gender, and more.	Aadhar API, etc.
10.	Infrastructure (Server / Cloud)	By using cloud infrastructure, application is faster, memory free and accessible whenever wherever possible.	Local, Cloud Foundry, Kubernetes, etc.

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Go to Settings

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Here this application is light weight . It uses flask (python) as a backend development .For web development HTML and CSS is used.	HTML, CSS, Flask(python)
2.	Security Implementations	Users login credentials, personal information like searches history, searches and bookmarks are protected from third parties by using algorithms like SHA-256, Encryptions, IAM Controls, OWASP etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Since it is accessed by more people, more servers are needed. The contents are available 24/7 without any interference despite the size of the content. It uses architecture like 3 – tier, Micro-services etc.	3 – tier, Micro-services etc.
4.	Availability	Available 24/7 whenever wherever possible. Can be accessed through internet.	Cloud
5.	Performance	It avoids latency.	Internet and cloud.

5.3 User Stories:

User Stories

User Type	Functional Requirement (Epic)	User ID Number	User Detail Registration	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration (sign up)	UIN-1	As a user, I sign up for the news tracker application by giving my email ID, DOB as password and confirming password.	I can access my account with unlimited access	High	Sprint-1
		UIN-2	As a user, I will receive confirmation email once I have registered for the news tracker application	I can receive confirmation email & click confirm	High	Sprint-1
		UIN-3	As a user, I can register for the application through Google	I can register & access the feed with Google Login	Low	Sprint-2
		UIN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	UIN-5	As a user, I can log into the application by entering email & password		High	Sprint-1
Customer (Web user)		UIN-6	As a user, I need not register.	Direct limited access	Low	Sprint-3
System Management	Functional Requirement	Module	User Detail Storage	Acceptance criteria	Priority	Release
Customer Care Executive	Receives and stores user's details	Exe Module	As an Executive, I create database and store user's login details.	I can store unlimited details	High	Sprint-1
Administrator	View and control the details	Admin Module	As an administrator, I can supervise the database	Takes control over the data	High	Sprint-1

6. PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation:

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I sign up for the news tracker application by giving my email ID, DOB as password and confirming password.	3	High	M. Seetha Devi
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the news tracker application.	2	High	M. Seetha Devi
Sprint-1	Login	USN-3	As a user, I can register for the application through Google	1	Low	M. Seetha Devi
Sprint-1		USN-4	As a user, I can register for the application through Gmail.	1	Medium	M. Seetha Devi
Sprint-1		USN-5	As a user, I can log into the application by entering email & password.	3	High	M. Seetha Devi
Sprint-1		USN-6	As a user, I need not register.	1	low	M. Seetha Devi
Sprint-2	Dashboard	USN-7	As a user, I can view flash news in the feed.	3	High	K. Sujitha
Sprint-2		USN-8	As a user, I can view the suggested news.	4	High	K. Sujitha
Sprint-2		USN-9	As a user, I can get news based on my location.	5	High	K. Sujitha
Sprint-3		USN-10	As a user, I can search desired news in the search box.	5	High	M. Vaishnavi

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3		USN-11	As a user, I can type the keyword to get the desired news.	4	High	M. Vaishnavi
Sprint-3		USN-12	I can revisit the searched news like a bookmark.	2	High	M. Vaishnavi
Sprint-4		USN-13	The desired news gets displayed	3	High	A. SharonTresha
Sprint-4		USN-14	Multiple articles about the desired news is also displayed, so that the user gains the knowledge about it.	4	High	A. SharonTresha
Sprint-4		USN-15	The feed displays the most searched news.	6	High	A. SharonTresha

6.2 Sprint Delivery Schedule

Project Tracker, Velocity & Burndown Chart:

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	11	6 Days	24 Oct 2022	29 Oct 2022		19 Nov 2022
Sprint-2	12	6 Days	31 Oct 2022	05 Nov 2022		19 Nov 2022
Sprint-3	11	6 Days	07 Nov 2022	12 Nov 2022		19 Nov 2022
Sprint-4	13	6 Days	14 Nov 2022	19 Nov 2022		19 Nov 2022

Velocity

For Sprint-1 the Average Velocity(AV) is:

$$AV = \text{Sprint Duration} / \text{Velocity} = 11 / 6 = 1.83$$

For Sprint-2 the Average Velocity(AV) is:

$$AV = \text{Sprint Duration} / \text{Velocity} = 12 / 6 = 2$$

For Sprint-3 the Average Velocity(AV) is:

$$AV = \text{Sprint Duration} / \text{Velocity} = 11 / 6 = 1.83$$

For Sprint-4 the Average Velocity(AV) is:

$$AV = \text{Sprint Duration} / \text{Velocity} = 13 / 6 = 2.16$$

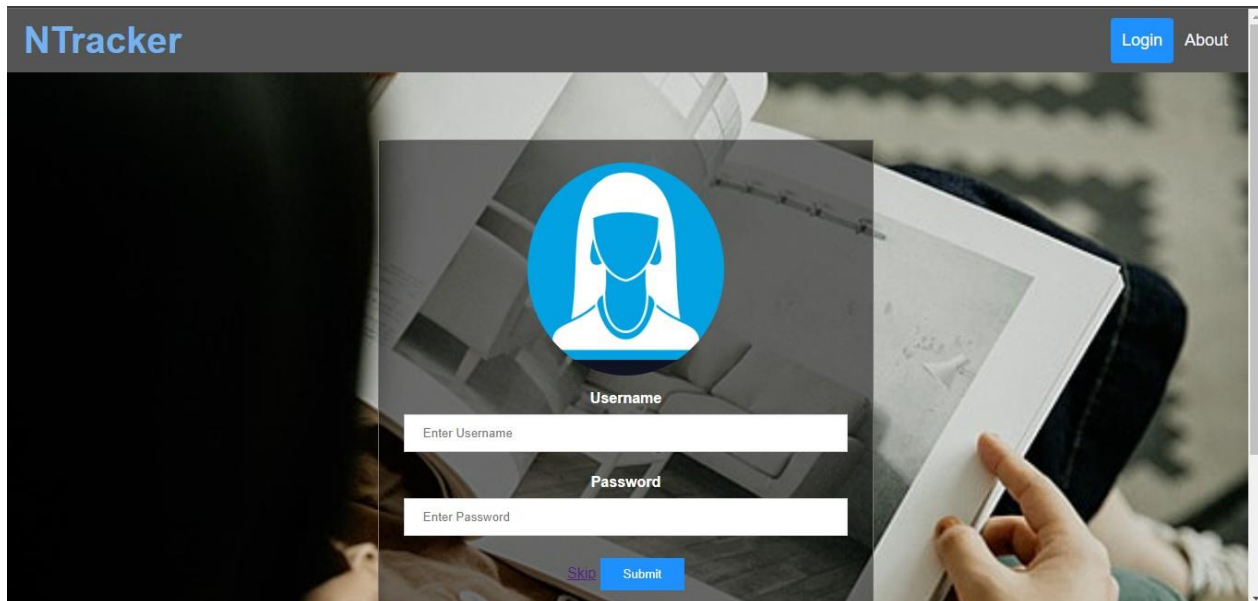
TITLE	DESCRIPTION	DATE
Literature Survey and Information Gathering	We defined a unique literature architecture on selected project, that is referred from researches, publications etc..	09 September 2022
Prepare Empathy Map	We prepare a empathy map for easy understanding about pains and gains and problem statement.	06 October 2022
Ideation Brain Storming	In the brainstorming session, group ideas, prioritize and importance of selected project were discussed.	07 October 2022
Proposed Solution	Prepare the proposed solution document, which includes the problem statement ,idea or solution description, uniqueness, customer satisfaction and scalability of solution.	09 October 2022

Problem Solution Fit	Solves the customer's problem by preparing the problem solution fit document.	14 September 2022
Solution Architecture	Prepare solution architecture for description of a specific solution.	10 October 2022
Customer Journey	Use the customer journey for understanding the customer's needs.	17 October 2022
Solution Requirement	Prepare the functional requirement document for the purpose of security, availability and performance.	17 October 2022
Data Flow Diagram	Various categories and process of selected project are shared in the dataflow diagram.	16 October 2022
Technology Architecture	We have implemented such technologies in this architecture.	17 October 2022
Prepare Milestone & Activity List	Prepare the milestones and activity list of the project.	05 November 2022
Project Development Delivery of Sprint-1,2,3 & 4	Develop and submit the developed code by testing it.	19 November 2022

7. CODING & SOLUTIONING

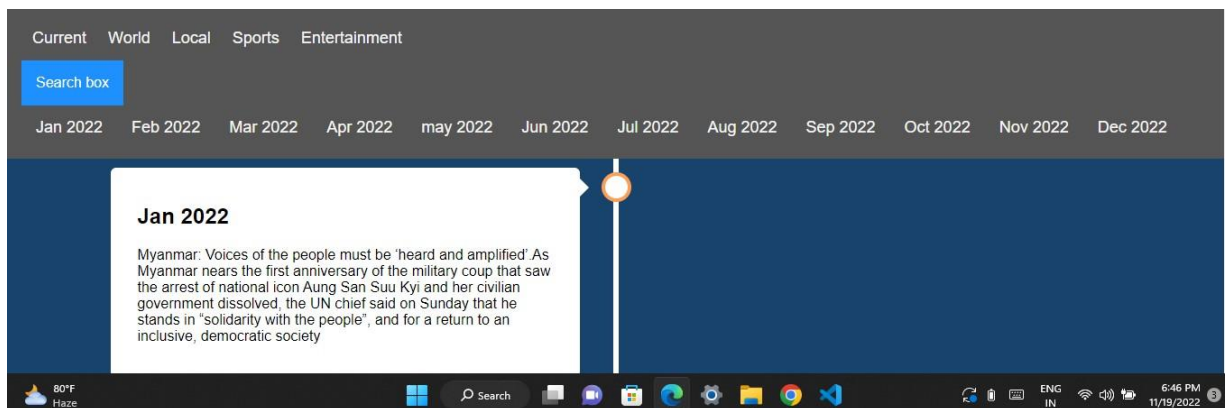
7.1 Feature 1

- "Skip" button



7.2 Feature 2

- Search box

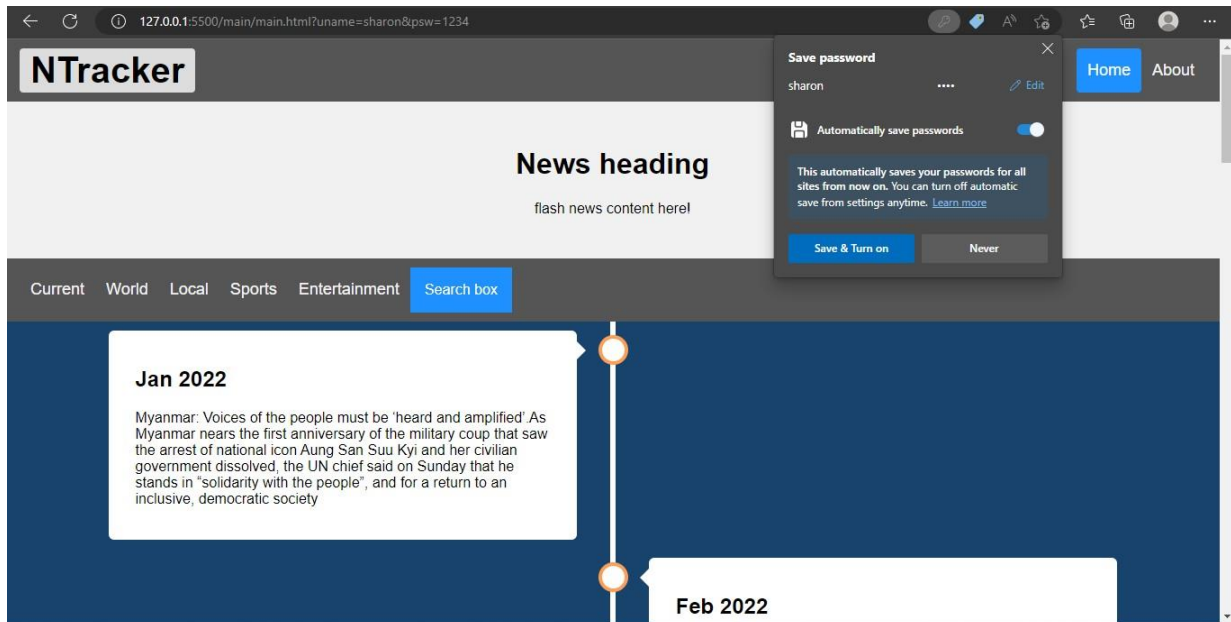
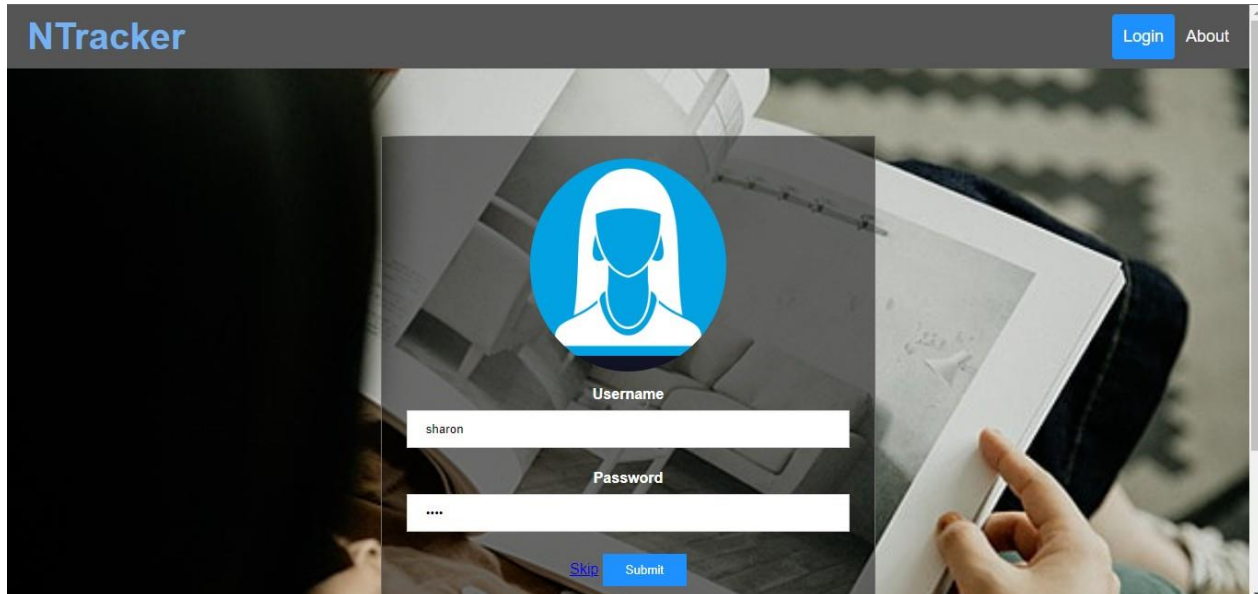


8. TESTING

8.1 Test Cases

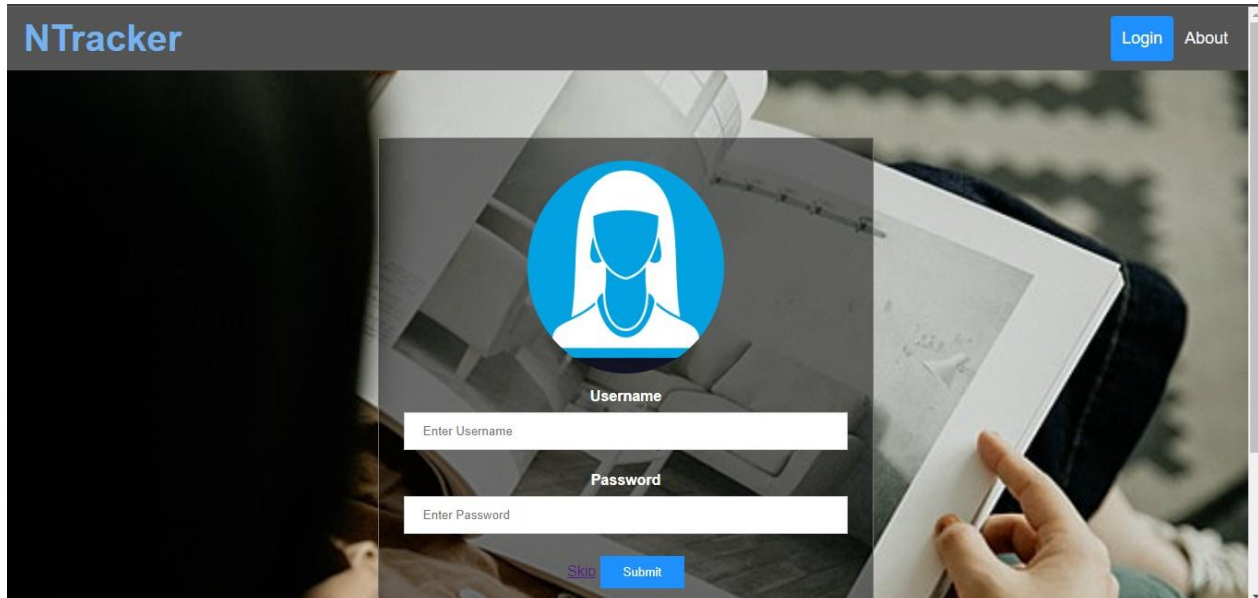
8.1.1 Test Case 1:

- Successfully logged in.



8.1.2 Test Case 2:

- By clicking "skip" button, it leads to home page, without the need of logging in.



8.2 User Acceptance Testing

8.2.1 Test Case Report:

Test case ID	Feature Type	Component	Test Scenario	Pre-Requisite	Steps To Execute	Test Data	Expected Result	Actual Result	Status	Comments	TC for Automation(Y/N)	BUG ID	Executed By
LoginPage_TC_01	Functional	Home Page	Verify user is able to see the Login/Signup popup when user clicked on My account button		1.Enter URL and click go 2.Click on My Account dropdown button 3.Verify login/Signup popup displayed or not	(Refer github)	Login/Signup popup should display	Working as expected	Pass	login/Signup popup displayed			SEETHA DEVI M
LoginPage_TC_02	UI	Home Page	Verify the UI elements in Login/Signup popup		1.Enter URL and click go 2.Click on My Account dropdown button 3.Verify login/Signup popup with below UI elements: a.email text box b.password text box c.Login button d.New customer? Create account link e.Last password? Recovery password link	(Refer github)	Application should show below UI elements: a.email text box b.password text box c.Login button with orange colour d.New customer? Create account link e.Last password? Recovery password link	Working as expected	Fail	steps are not clear to follow		BUG-1234	SLUTHA K
LoginPage_TC_03	Functional	Home page	Verify user is able to log into application with valid credentials		1.Enter URL(refer github) and click go 2.Click on My Account dropdown button 3.Enter valid username/email in Email text box 4.Enter valid password in password text box 5.Click on login button	Username: sharon password: 1234	User navigate account homepage	Working as expected	Pass	User navigate account homepage			VAISHNAVI M
LoginPage_TC_04	Functional	Login page	Verify user is able to log into application with invalid credentials		1.Enter URL (refer github) and click go 2.Click on My Account dropdown button 3.Enter invalid username/email in Email text box 4.Enter valid password in password text box 5.Click on login button	Username: sharon password: 1234	Application should show 'incorrect email or password' validation message.	Working as expected	Pass	Entered valid username email in Email text box and Entered valid password in password text box			SHWON TRESHA A

8.2.2 UAT Report:

1. Purpose of Document

The purpose of this document is to briefly explain the test coverage and open issues of the [NTracker (news tracker application)]project at the time of the release to User Acceptance Testing (UAT).

2. Defect Analysis

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

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	10	4	2	3	20
Duplicate	1	0	3	0	4
External	2	3	0	1	6
Fixed	11	2	4	20	37
Not Reproduced	0	0	1	0	1
Skipped	0	0	1	1	2
Won't Fix	0	5	2	1	8
Totals	24	14	13	26	77

3. Test Case Analysis

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

Section	Total Cases	Not Tested	Fail	Pass
Print Engine	8	0	0	8
Client Application	45	0	0	4
Security	2	0	0	2
Outsource Shipping	3	0	0	3
Exception Reporting	9	0	0	9
Final Report Output	4	0	0	4
Version Control	2	0	0	2

9. RESULTS

9.1 Performance Metrics

NFT - Risk Assessment									
S.No	Project Name	Scope/feature	Functional Changes	Hardware Changes	Software Changes	Impact of Downtime	Load/Volume Changes	Risk Score	Justification
1	News Tracker Application	New	Moderate	Low	Moderate		>5 to 10%	ORANGE	As we have seen the changes
NFT - Detailed Test Plan									
S.No	Project Overview		NFT Test approach			Approvals/SignOff			
1	News Tracker Application		Its done to check whether			Assumptions signoff			
End Of Test Report									
S.No	Project Overview	NFT Test approach	NFR - Met	Test Outcome	GO/NO-GO decision	Recommendations	Identified Defects (Detected/ Closed/Open)	Approvals/SignOff	
1	News Tracker Application	Its done to check whether Security		Authenticated users/followers only	Continue the course of a	.	Detected	signoff	
2	News Tracker Application	It test the system access/Availability		Its available in 24/7 So users can fit	Continue the course of a	.	.	Approvals	
3	News Tracker Application	It checks whether it id reliability		It is flexible. And it avoids fake news	Continue the course of a	.	Detected	Approvals	
4	News Tracker Application	Its quality attribute that usability		Free access to know the current news	Continue the course of a	.	.	signoff	
5	News Tracker Application	Its tests the system performance		It avoids latency	Continue the course of a	.	.	Approvals	

10. ADVANTAGES & DISADVANTAGES

10.1 Advantages:

Cost-Effective:

Online advertisement is cost-effective compared to print advertisement and enables you to make on-the-fly changes, given that you are using a CMS.

Wider Demographic Reach:

If you have a professional looking and user-friendly Website, consumers will likely have a greater chance of considering your business credible over companies who either do not have a Web presence, or have a poor Website presence.

Around-The-Clock Availability:

Having a Website provides your consumers with around-the-clock availability in terms of access to products, information etc. This type of 24 hours a day, seven days a week service definitely generates more profits than that of a traditional storefront.

Consumer Convenience:

In branching off from the above noted benefit, being available to meet the needs of consumers at any time day or night provides added convenience, giving them access to products and information whenever they need.

Increased Sales:

When owning a business exposure is key to attracting customers. An effective Website with great content increases the probability for increased sales.

Fosters Customer Rapport:

An online presence helps in terms of building and fostering a rapport among your customers. Providing special offers to loyal customers on your Website lets them know you appreciate their

business.

Competitive Opportunity:

Chances are your competitors have a Website and they're using it to their fullest advantage. In order to keep up or surpass the competition, having a Website is a must.

Build Customer Base:

Consumer communication via your Website can help you build your customer base. Populating a list of consumer contacts is gold to any company.

Targeted Marketing:

A strategically planned Website can effectively attract the targeted audience you seek. Now that you have known why having a website is important to your business, contact an expert [web design company](#) to get a business-friendly website.

10.1 Disadvantages:

Cost:

Websites are not entirely a free service. For building a website, a professional needs to be hired who should be paid for his work. Furthermore, companies need to spend on web hosting and domain. Now this is not one time payment, the users need to renew them yearly.

There are also other indirect costs involved like internet connection and computer system all which can increase the expenditure.

Privacy:

Some websites require personal information from the user for market data. Most often this data is used by hackers for the purpose of identity theft and other frauds. For an example, banking websites need users to enter sensitive information such as Security PIN, CVV and account number. This information is at a risk of theft.

Socialization:

Although websites help to get connected with people all over the world, the same could take you away from the people around you. Users who focus more on websites prefer to chat in messages rather than having face-to-face conversations. They find it hard to talk to persons in real.

Now this type of habit is not only bad to the user but also to the society around them, especially to their family. Ideally this is a risk to personal relationships.

Addiction:

Excessive use of website after a certain period can bring many negative effects to the user. Particularly, websites that promote entertainment such as games could make a user addictive. Researches have found that playing games releases a hormone called dopamine which induces a feeling of happiness. Due to this feeling, unknowingly the players could become addictive that they cannot come out.

Illegal Activities:

Websites are also used for illegal activities. Some of the information provided are used for cybercrime works. Even other dangerous crimes such as terrorism and kidnapping are carried out using a website.

11. Summary & CONCLUSION

Based on the studies in this dissertation, we can draw the following main conclusions.

1. Users of online news sites are (still) typically younger, higher-educated and more often male than “non-users,” the socio-demographic composition of online news users is becoming gradually more mainstream though. In terms of the Diffusion of Innovations theory online news users still have the characteristics of the early adopters or the early majority.
2. Online news attracts people that are above average interested in politics. Remarkably, online news users distinguished themselves even more from non-users in this respect.
3. Visitors of newspaper websites perceive these online editions less suited for their information needs than traditional printed newspapers. However,
4. exposure to online newspapers is increasingly at the expense of exposure to traditional printed newspapers, particularly among young people. This suggests that young people use online newspapers as a substitute for traditional newspapers, but apparently not so much for informational reasons. Possibly, they use the online editions for more convenience related reasons, like the (nearly) free access, the constant availability and convenient news alerts.
5. Other or non-paper news sites (such as news sites of TV and radio stations and online-only news sites) have become more popular in terms of use.
6. Non-paper news sites are increasingly valued for information about politics whereas online newspapers lose value for this type of information.

7. Non-paper news websites are increasingly used complementary to printed dailies.

There are indications that other news sites gradually become more popular at the expense of newspaper websites. Especially high-educated people seem to have ‘migrated’ from newspaper sites to other news sites on the Internet. Possibly this group is seeking a complement to traditional newspapers online for informative reasons.

8. Turning to a printed newspaper frequently expands the number of societal topics one is aware of, particularly for those with minimal interests.

9. Printed newspapers effectively expand awareness of public affairs and political topics if people rely on them for this type of information (i.e., readers are interested in these topics and consider printed newspapers an important information source for these type of topics).

These seemingly contradicting results regarding interests suggest that frequency of exposure (like measured in the first analyses) is an indication of how much readers rely on printed newspapers as an important information source (like measured in the subsequent, more refined analyses). The result that particularly those with few interests profit from reading printed newspapers frequently can be explained as follows: their minimal interests are sufficiently compensated by the importance they attach to printed newspapers as an information source.

10. Online newspapers effectively expand awareness of societal issues; however this goes for higher educated people only and under the condition of prolonged exposure to online newspapers. This was true in 2002, but the analyses of the 2005-data reveal no effects of online newspapers on the public agenda. In the 2005-analyses “duration of use” has not been analysed separately; instead duration and frequency of use have been consolidated into one generic exposure variable. Possibly, the effects of online newspapers are that specific - that is, only the duration of use matters - that they are blurred in a more general context. Another option is that online newspapers do not effectively expand awareness and that the 2002-findings can be explained by a reversed causal relation between exposure to online newspapers and awareness: High-educated people who spent considerable time with the websites of newspaper in 2002 may have been typically well-informed people who were curious about online newspapers.

11. Exposure to other news websites expands awareness of public affairs and political topics. Apparently, simply being exposed to non-paper news websites suffices; users do not have to be particularly interested in public affairs issues and to consider news sites important sources for public affairs information in order to learn about a wide variety of topics. This implies that these online news sites can function as an efficient “overview medium” and expand awareness of issues beyond users’ individual interests.

In conclusion, traditional printed newspapers, online newspaper editions and other types of

news websites shape the agenda of their users in different ways and are effective for different people. Printed newspapers are more effective than online newspapers in expanding the agenda of their users, even in a real life setting. But unlike the websites of newspapers, nonpaper news sites do successfully expand the public agenda. The format alone (online or offline) cannot explain the differences. Users' perceptions and their individual motivations for use seem crucial factors too.

12. FUTURE SCOPE

This dissertation contributes to existing perceptions and knowledge of the uses and effects of online news in different ways. The natural research setting adds to the existing knowledge that is primarily based on experiments. These experiments have shown that under the same conditions people learn more from the print format than from the online format. But in reality, this difference appears not to be so clear. As the uses of online news and the effects of use are analysed on different levels this dissertation also provides insight into the circumstances under which different news sites are effective or not and helps clarifying underlying processes.

The empirical results lead to theoretical considerations, for instance about the differences in the uses and effects of both types of online news (newspaper sites and other news sites). Future research should take into account the motives of use. The reasons to use the websites of newspapers or other news sites (like *nos.nl* and *nu.nl*) may differ. Perhaps the former are used to get background and in-depth information on specific topics and the latter for quick and up-to-the-minute overviews of what is going on in the world.

The diversity of topics is based on quantitative measures: (a) the number of different topics respondents named within the thematic category "political issues" and (b) the total number of different topics respondents named - regardless this were for instance three sports topics, or, one political, one economic, and one sports topic. Future studies may also look at the more qualitative aspect of issue diversity in terms of variation between different thematic categories: In the example above the thematic diversity of the one who has mentioned three sports topic is smaller than of the one who has mentioned three topics of thematically different categories. To further improve our understanding of learning effects of online news, future studies could of course also examine to what extent online news contributes to in-depth knowledge of topics.

Finally, the recent developments in the printed newspaper industry deserve scholarly attention related to the research topics of this dissertation. Despite the downward pattern in print newspaper use among young people the two-wave study in this dissertation revealed increasing figures of the time spent on reading newspapers for this group. This could be the result of the popular free printed national dailies *Metro* and *Sp!ts*. And the newspaper market (aiming at younger generations) is far from steady: In 2006 the tabloid *NRC Next* was launched and in

2007 another two free newspapers have been introduced: De Pers and DAG. The uses and effects of using these “new newspapers” and how these uses and effects relate to online news are essential for our understanding of the current developments in the news media environment

13. APPENDIX

13.1 Source Code

13.1.1 First

```
<!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>
  <style>
    * {
      box-sizing: border-box;
    }
    body {
      margin: 0;
      font-family: Arial, Helvetica, sans-serif;
    }
    .header {
      overflow: hidden;
      background-color: #555;
      padding: 10px 10px;
    }
    .header a {
```

```
float: left;
color: whitesmoke;
text-align: center;
padding: 12px;
text-decoration: none;
font-size: 18px;
line-height: 25px;
border-radius: 4px;
}
```

```
.header a.logo {
color: rgb(117, 178, 239);
font-size: 40px;
font-weight: bold;
}
```

```
.header a:hover {
background-color: #ddd;
color: black;
}
```

```
.header a.active {
background-color: dodgerblue;
color: white;
}
```

```
.header-right {
float: right;
}
```

```
@media screen and (max-width: 500px) {
.header a {
float: none;
display: block;
text-align: left;
}
```



```
.header-right {
```

```
float: none;
```

```
}
```

```
body,
```

```
html {
```

```
height: 100%;
```

```
margin: 0;
```

```
font-family: Arial, Helvetica, sans-serif;
```

```
}
```

```
.hero-image {
```

```
background-image: linear-gradient(
```

```
    rgba(0, 0, 0, 0.5),
```

```
    rgba(0, 0, 0, 0.5)
```

```
),
```

```
url("/img/readingbook.jpg");
```

```
height: 90.2%;
```

```
background-position: center;
```

```
background-repeat: no-repeat;
```

```
background-size: cover;
```

```
position: relative;
```

```
}
```

```
.hero-text {
```

```
text-align: center;
```

```
position: absolute;
```

```
top: 50%;
```

```
left: 50%;
```

```
transform: translate(-50%, -50%);
```

```
color: white;
```

```
}
```

```
.hero-text button {
```

```
border: none;
```

```
        outline: 0;
        display: inline-block;
        padding: 10px 25px;
        color: white;
        background-color: dodgerblue;
        text-align: center;
        cursor: pointer;
    }

    .hero-text button:hover {
        background-color: #555;
        color: white;
    }
</style>
</head>
<body>
    <div class="header">
        <a href="/main/First.html" class="logo">NTracker</a>
        <div class="header-right">
            <a class="active" href="/main/First.html">Home</a>
            <a href="/main/about.html">About</a>
        </div>
    </div>

    <div style="padding-left: 20px" class="hero-image">
        <div class="hero-text">
            <h1 style="font-size: 50px">
                Informative power is more critical than nuclear power.
            </h1>
            <p>Track insights across the world</p>
            <button
onclick="document.location='register.html'">Register</button>
            <button onclick="document.location='login.html'">login</button>
        </div>
    </div>
</body>
</html>
```

13.1.2 Main

```
<!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>NTracker</title>
  <style>
    * {
      box-sizing: border-box;
    }

    body {
      margin: 0;
      font-family: Arial, Helvetica, sans-serif;
      background-color: rgb(24, 67, 109);
    }

    .header {
      overflow: hidden;
      background-color: #555;
      padding: 10px 10px;
    }

    .header a {
      float: left;
      color: whitesmoke;
      text-align: center;
      padding: 12px;
      text-decoration: none;
      font-size: 18px;
      line-height: 25px;
      border-radius: 4px;
```

```
}
```

```
.header a.logo {
```

```
color: rgb(117, 178, 239);
```

```
font-size: 40px;
```

```
font-weight: bold;
```

```
}
```

```
.header a:hover {
```

```
background-color: #ddd;
```

```
color: black;
```

```
}
```

```
.header a.active {
```

```
background-color: dodgerblue;
```

```
color: white;
```

```
}
```

```
.header-right {
```

```
float: right;
```

```
}
```

```
.top-container {
```

```
background-color: #f1f1f1;
```

```
padding: 30px;
```

```
text-align: center;
```

```
}
```

```
.header {
```

```
padding: 10px 16px;
```

```
background: #555;
```

```
color: #f1f1f1;
```

```
}
```

```
.content {
```

```
padding: 16px;
```

```
}
```

```
.sticky {
```

```
    position: fixed;
```

```
    top: 0;
```

```
    width: 100%;
```

```
}
```

```
.sticky + .content {
```

```
    padding-top: 102px;
```

```
}
```

```
/* The actual timeline (the vertical ruler) */
```

```
.timeline {
```

```
    position: relative;
```

```
    max-width: 1200px;
```

```
    margin: 0 auto
```

```
}
```

```
/* The actual timeline (the vertical ruler) */
```

```
.timeline::after {
```

```
    content: "";
```

```
    position: absolute;
```

```
    width: 6px;
```

```
    background-color: white;
```

```
    top: 0;
```

```
    bottom: 0;
```

```
    left: 50%;
```

```
    margin-left: -3px;
```

```
}
```

```
/* Container around content */
```

```
.container {
```

```
    padding: 10px 40px;
```

```
    position: relative;
```

```
    background-color: inherit;
```

```
    width: 50%;
```

```
}
```

```
/* The circles on the timeline */
```

```
.container::after {
```

```
  content: "";
```

```
  position: absolute;
```

```
  width: 25px;
```

```
  height: 25px;
```

```
  right: -17px;
```

```
  background-color: white;
```

```
  border: 4px solid #ff9f55;
```

```
  top: 15px;
```

```
  border-radius: 50%;
```

```
  z-index: 1;
```

```
}
```

```
/* Place the container to the left */
```

```
.left {
```

```
  left: 0;
```

```
}
```

```
/* Place the container to the right */
```

```
.right {
```

```
  left: 50%;
```

```
}
```

```
/* Add arrows to the left container (pointing right) */
```

```
.left::before {
```

```
  content: " ";
```

```
  height: 0;
```

```
  position: absolute;
```

```
  top: 22px;
```

```
  width: 0;
```

```
  z-index: 1;
```

```
  right: 30px;
```

```
  border: medium solid white;
```

```

        border-width: 10px 0 10px 10px;
        border-color: transparent transparent transparent white;
    }

    /* Add arrows to the right container (pointing left) */
    .right::before {
        content: " ";
        height: 0;
        position: absolute;
        top: 22px;
        width: 0;
        z-index: 1;
        left: 30px;
        border: medium solid white;
        border-width: 10px 10px 10px 0;
        border-color: transparent white transparent transparent;
    }

    /* Fix the circle for containers on the right side */
    .right::after {
        left: -16px;
    }

    /* The actual content */
    .content {
        padding: 20px 30px;
        background-color: white;
        position: relative;
        border-radius: 6px;
    }

    /* Media queries - Responsive timeline on screens less than 600px
wide */
    @media screen and (max-width: 600px) {
        /* Place the timeline to the left */
        .timeline::after {

```

```

        left: 31px;
    }

    /* Full-width containers */
    .container {
        width: 100%;
        padding-left: 70px;
        padding-right: 25px;
    }

    /* Make sure that all arrows are pointing leftwards */
    .container::before {
        left: 60px;
        border: medium solid white;
        border-width: 10px 10px 10px 0;
        border-color: transparent white transparent transparent;
    }

    /* Make sure all circles are at the same spot */
    .left::after,
    .right::after {
        left: 15px;
    }

    /* Make all right containers behave like the left ones */
    .right {
        left: 0%;
    }

    .dropbtn {
        background-color: dodgerblue;
        color: white;
        padding: 16px;
        font-size: 16px;
        border: none;
    }

```



```
.dropdown {  
    position: relative;  
    display: inline-block;  
}
```

```
.dropdown-content {  
    display: none;  
    position: relative;  
    background-color: #f1f1f1;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;  
}
```

```
.dropdown-content a {  
    color: whitesmoke;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
}
```

```
.dropdown-content a:hover {  
    background-color: #ddd;  
}
```

```
.dropdown:hover .dropdown-content {  
    display: block;  
}
```

```
.dropdown:hover .dropbtn {  
    background-color: dodgerblue;  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="header">
```

```
<a href="#default" class="logo">NTracker</a>
```

```
<div class="header-right">
```

```
<a class="active" href="/main/main.html">Home</a>
```

```
<a href="/main/about.html">About</a>
```

```
</div>
```

```
</div>
```

```
<div class="top-container">
```

```
<h1>News heading</h1>
```

```
<p>flash news content here!</p>
```

```
</div>
```

```
<div class="header" id="myHeader">
```

```
<a class="but" href="/main/current.html">Current</a>
```

```
<a class="but" href="/main/world.html">World</a>
```

```
<a class="but" href="/main/local.html">Local</a>
```

```
<a class="but" href="/main/history.html">Sports</a>
```

```
<a class="but" href="/main/entertainment.html">Entertainment</a>
```

```
<div class="dropdown">
```

```
<button class="dropbtn">Search box</button>
```

```
<div class="dropdown-content">
```

```
<a href="#section1">Jan 2022</a>
```

```
<a href="#section2">Feb 2022</a>
```

```
<a href="#section3">Mar 2022</a>
```

```
<a href="#section4">Apr 2022</a>
```

```
<a href="#section5">may 2022</a>
```

```
<a href="#section6">Jun 2022</a>
```

```
<a href="#section7">Jul 2022</a>
```

```
<a href="#section8">Aug 2022</a>
```

```
<a href="#section9">Sep 2022</a>
```

```
<a href="#section10">Oct 2022</a>
```

```
<a href="#section11">Nov 2022</a>
```

```
<a href="#section11">Dec 2022</a>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<div class="timeline">
```

```
<div class="container left">
```

```
<div class="content">
```

```
<div class="section one" id="section1">
```

```
<h2>Jan 2022</h2>
```

```
<p>
```

Myanmar: Voices of the people must be 'heard and amplified'. As Myanmar nears the first anniversary of the military coup that saw the arrest of national icon Aung San Suu Kyi and her civilian government dissolved, the UN chief said on Sunday that he stands in "solidarity with the people", and for a return to an inclusive, democratic society

```
</p>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<div class="container right">
```

```
<div class="content">
```

```
<div class="section two" id="section2">
```

```
<h2>Feb 2022</h2>
```

```
<p>
```

Syria: Use of chemical weapons 'blight' on international community's conscience. Impunity for the use of chemical weapons is "intolerable," the UN disarmament chief told the Security Council meeting on Syria. "Any use of chemical weapons is unacceptable and the absence of accountability for the past use of such weapons remains a blight on the conscience of the international community," said High Representative Izumi Nakamitsu.

```
</p>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<div class="container left">
```

```
<div class="content">
```

```
<div class="section three" id="section3">
```

```
<h2>Mar 2022</h2>
```

```
<p>
```

Srilanka in Deep Crisis - #GoHomeGotabaya. China has disgraced Srilanka. Srilanka is now greatly suffering. The Politicians and the Rajapaksa family are Power Hungry people. But they don't care about the People's Protests, issues or their Future. The Governor of Srilankan Central Bank has resigned. The Treasury head has resigned. New Persons were appointed to the Post. The newly appointed Finance Minister resigned within 24 hours. Gotabaya has not accepted the Finance Minister's resignation and is looking for a Replacement.

```
</p>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<div class="container right">
```

```
<div class="content">
```

```
<div class="section three" id="section4"></div>
```

```
<h2>Apr 2022</h2>
```

```
<p>
```

Acquisition of Twitter by Elon Musk.began on April 14, 2022, and concluded on October 27, 2022. Business magnate Elon Musk began buying shares of American social media company Twitter, Inc. in January 2022, eventually becoming the company's largest shareholder in April with a 9.1 percent ownership stake.Tesla CEO Elon Musk completed the deal to acquire Twitter at his original offer price of \$54.20 a share at a total cost of roughly \$44 billion

```
</p>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<div class="container left">
```

```
<div class="content">
```

```
<div class="section three" id="section5"></div>
```

```
<h2>May 2022</h2>
```

```
<p>
```

Over a billion methamphetamine tabs seized in East and Southeast Asia. More than one billion methamphetamine tablets were seized in East and Southeast Asia last year, the UN Office on Drugs and Crime (UNODC) has warned. The staggering drugs haul across the vast region is further proof that illicit manufacturing there continues to expand unchecked, with "extreme volumes of methamphetamine" in production, along with a decreasing number of new synthetic psychoactive substances.

</p>

</div>

</div>

<div class="container right">

<div class="content">

<div class="section three" id="section6"></div>

<h2>Jun 2022</h2>

<p>

Agnipath Protests What does the Youth of India want? More than 200 Train Service in India has been affected. More than 35 Trains have been cancelled. The Protests against Agnipath are the Reason. Agnipath Scheme allows youths to serve in the Indian army for 4 years. When the Scheme was announced many supported it and many were against the Scheme. Politics and Youngsters' requests for employment are the main issues faced by Agnipath Scheme.

</p>

</div>

</div>

<div class="container left">

<div class="content">

<div class="section three" id="section7"></div>

<h2>Jul 2022</h2>

<p>

: Mirabai Chanu wins first Gold medal for India at Commonwealth Games 2022; Creates new Commonwealth record in 49 kg Weightlifting; Bindyarani Devi bags Silver in 55 kg category. President Draupadi Murmu and Prime Minister Narendra Modi congratulate winners

</p>

</div>

</div>

<div class="container right">

<div class="content">

<div class="section three" id="section8"></div>

<h2>Aug 2022</h2>

<p>

Foreign national tests positive for Monkeypox in Delhi, 8th case in country, 3rd in capital
NEW DELHI: A 35-year-old man of African origin with no recent t history of foreign travel has tested positive for monkeypox in Delhi.

</p>

</div>

</div>

<div class="container left">

<div class="content">

<div class="section three" id="section9"></div>

<h2>Sep 2022</h2>

<p>

Prime Minister Narendra Modi to flag off new and upgraded version of Gandhinagar-Mumbai Vande Bharat Express today; To also inaugurate Ahmedabad Metro rail project in Gujarat. President Droupadi Murmu to present 68th National Film Awards in New Delhi this evening..

</p>

</div>

</div>

<div class="container right">

<div class="content">

<div class="section three" id="section10"></div>

<h2>Oct 2022</h2>

<p>

Morbi bridge collapse: 5 NDRF teams, Army carrying out rescue ops on war footing. A nearly 100-year-old suspension bridge over the Machchhu River in Morbi, Gujarat, collapsed on Sunday evening, claiming more than 130 lives. Five teams of NDRF, Army, SDRF and local administration are carrying out search and rescue operations on war footing.

```
</p>
</div>
</div>
<div class="container left">
  <div class="content">
    <div class="section three" id="section11"></div>
    <h2>Nov 2022</h2>
    <p>
      Biggest layoff in tech sector this year? Meta to start firing
      employees today.In a mail sent to hundreds of executives, the company's
      CEO claimed responsibility for the problem of an inflated workforce.
      Zuckerberg claimed the problem originated from his 'over-optimism' about
      growth.
    </p>
  </div>
</div>
<div class="container right">
  <div class="content">
    <div class="section three" id="section12"></div>
    <h2>Dec 2022</h2>
    <p>
      BTS's RM Announces Solo Album "Indigo". RM has already given
      fans an honest look into his world through two
      Mixtapes. Through Indigo, RM delivers his candid thoughts and
      feelings and showcases a wide-ranging music through collaborations with
      various artists. We hope everyone's excited about RM's latest release!.
      Release: 2 PM, Friday, December 2, 2022 (KST)
    </p>
  </div>
</div>
</div>
</body>
</html>
```

13.2 GitHub & Project Demo Link

13.2.1 GitHub Link

<https://github.com/IBM-EPBL/IBM-Project-38968-1660387485>

13.2.2 Project Demo Link

(optional)

<https://github.com/IBM-EPBL/IBM-Project-38968-1660387485/blob/main/Project%20design%20%26%20planning/Project%20Development%20Phase/Demo%20Link.mp4>