NEWS TRACKER APPLICATION

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 relevant and save your time. This app helps you to query for all information about Indices, Commodities, Currencies, Futures, Rates, Bonds, etc.… as on official websites.

1.2 Purpose

It enables news consumers to quickly find the information they need. News is that portion of communication that keeps us aware of the changing events, topics, and characters in the world outside.

The main purpose of news is to inform the public, even though it may also be engaging or entertaining. To put it plainly, its major function is to reach more people around the world and share knowledge widely. People rely on the news the most because they think it is the information they can trust to be factual and unbiased. News, whether it be in written, audio, or visual form, must only be an objective.

2.LITERATURE SURVEY

2.1 Existing Problem

It is clear that personalising news app interactions is necessary as news is increasingly accessed on smartphones and tablets. We provide findings from three experiments that focus on crucial challenges in the design of adaptive news app interfaces. We started by asking people about their reading habits and interests, and our analysis identified three main categories of readers. After that, we developed and released an Android news app that keeps track of user interactions. We demonstrated that a classifier we trained using the logs can accurately identify a user based on the type of reader they are.

2.3 References

AUTHOR: GUIXIAN XU, YUETING MENG1, ZHAN CHEN1, XIAOYU QIU2, CHANGZHI WANG3 AND HAISHEN YAO1

YEAR: 2018

ABSTRACT: With the rapid development of the Internet, the amount of data has grown exponentially. On the one hand, the accumulation of big data provides the basic support for artificial intelligence. On the other hand,in the face of such huge data information, how to extract the knowledge of interest from it has become a matter of general concern. Topic tracking can help people to explore the process of topic development from the huge and complex network texts information. By effectively organizing large-scale news documents, a method for the evolution of news topics over time is proposed in this paper to realize the tracking and evolution of topics in the news text set. First, the LDA (latent Dirichlet allocation) model is used to extract topics from news texts and the Gibbs Sampling method is used to speculate parameters. The topic mining using the K-means method is compared to highlight the advantages of using LDA for topic discovery. Second, the improved single-pass algorithm is used to track news topics. The JS (Jensen–Shannon) divergence is used to measure the topic similarity, and the time decay function is introduced to improve the similarity between topics with the similar time. Finally, the strength of the news topic and the content change of the topic in different time windows are analyzed. The experiments show that the proposed method can effectively detect and track thetopic and clearly reflect the trend of topic evolution.

AUTHOR: MODIFEED PRISELLA

YEAR: 2015

ABSTRACT : A location-aware news feed (LANF) system generates news feeds for a mobile user based on her spatial preference (i.e., her current location and future locations) and nonspatial preference (i.e., her interest). Existing LANF systems simply send the most relevant geotagged messages to their users. Unfortunately, the major limitation of such an existing approach is that, a news feed may contain messages related to the same location (i.e., point-of-interest) or the same category of locations (e.g., food, entertainment or sport). We argue that diversity is a very important feature for location-aware news feeds because it helps users discover new places and activities. In this paper, we propose D-MobiFeed; a new LANF system enables a user to specify the minimum number of message categories (h) for the messages in a news feed. In DMobiFeed, our objective is to efficiently schedule news feeds for a mobile user at her current and predicted locations, such that (i) each news feed contains messages belonging to at least h different categories, and (ii) their total relevance to the user is maximized. To achieve this objective, we formulate the problem into two parts, namely, a decision problem and an optimization problem. For the decision problem, we provide an exact solution by modeling it as a maximum flow problem and proving its correctness. The optimization problem is solved by our proposed three-stage heuristic algorithm. We conduct a user study and experiments to evaluate the performance of D-MobiFeed using a real data set crawled from Foursquare. Experimental results show that our proposed three-stage heuristic scheduling algorithm outperforms the bruteforce optimal algorithm by at least an order of magnitude in terms of running time and the relative error incurred by the heuristic algorithm is below 1%. D-MobiFeed with the location prediction method effectively improves the relevance, diversity, and efficiency of news feeds.

AUTHOR: MARIOS CONSTATINIDES, JOHN DOWELL, DAVID JOHNSON

YEAR: 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.

AUTHOR: I. RUGVEDA MURALIDHAR, K. SAI HARSHAVARDHAN, B. ARUN REDDY, K. SATHISH

YEAR: 2018

ABSTRACT: Over the past few years, mobile news applications have become an extremely hyped thing for mobile users from all over the world. And, it is no wonder to learn that with the passage of time, their popularity and demand continue to enhance. The project, the “News Feed Application for Android” is a cutting edge and versatile mobile news application fundamentally designed to help people connect with the world in a very friendly, easy and hassle-free manner. With this application phones will touch the base with people via images and headlines. It is very simple to use and easy to install that can be downloaded directly. In today’s busy routine life, the users of this mobile news application will be just a click away to access all the basic current affairs in today’s day to day routine of the society.

AUTHOR: FRANCISCO JUIADO OSCAR DELGADO AQLVARO ORTIGORA
YEAR: 2018

ABSTRACT: Nowadays, having a mechanism to guarantee the traceability of the information and to monitor the evolution of the news from its origin, and having elements to know the reputation and credibility of the media, analyze the news as well as its evolution and possible manipulation, etc. is becoming increasingly significant. Transparency in journalism is currently a key element in performing serious and rigorous journalism. End-users and factchecking agencies need to be able to check and verify the information published in different media. This transparency principle enables the tracking of news stories and allows direct access to the source of essential content to contrast the information it contains and to know whether it has been manipulated. Additionally, the traceability of news constitutes another instrument in the fight against the lack of credibility, the manipulation of information, misinformation campaigns and the propagation of fake news. This article aims to show how to use Blockchain to facilitate the tracking and traceability of news so that it can provide support to the automatic indexing and extraction of relevant information from newspaper articles to facilitate the monitoring of the news story and allows users to verify the veracity of what they are reading.

AUTHOR: MRAT GOKSU,NADIRE CAVUS,ALPER CAVUS,DAMLA KARGOZLU.

YEAR: 2020

ABSTRACT: The increasing popularity of social networks such as Facebook, Twitter, Instagram, and LinkedIn as well as humanity's growing need to receive news have also led to the spread of fake news. Advances in technology have enabled the circulation of data in the cloud so that users can access it at the desired location and time, similar to social networks. With these developments, the need for data storage and protection has been constantly expanding. The main aim of the study is to examine the advantages and disadvantages of cloud computing in terms of its role in detecting fake news on social networks. In this context, IEEE Explore, Springer Link and Web of Science, some of the most important databases in the scientific world, were systematically reviewed and 32 papers were analyzed in detail. As a result of the systematic literature review, it has been determined that most important advantages of cloud computing are that it is highly flexible with low hardware fees and it offers the ability to work from anywhere at any time. The main disadvantage is the need for an Internet connection. This study is expected to be a guide for researchers who want to conduct instant analysis online on the detection of fake news.

AUTHOR: Mayur Bhogade1, Bhushan Deore2, Abhishek Sharma3, Omkar Sonawane4, Prof. Manisha Singh5

YEAR: 2021

ABSTRACT: With the popularity of mobile technology and social media growing, information is readily available. Mobile App and social media platforms have overturned traditional media in the distribution of news. Alongside the increment in the utilization of online media stages like Facebook, Twitter, and so forth news spread quickly among a large number of clients with an extremely limited ability to focus time. Machine learning and Knowledge-based approach and approach are the two techniques utilized for investigating the truthiness of the content. Public and private assessments on a wide assortment of subjects are communicated and spread persistently through various online media. Most methodologies are utilized, for example, regulated AI. The spread of phony news has extensive results like the making of one-sided feelings to influencing political race results to support certain applicants. Additionally, spammers utilize engaging news features to produce income utilizing notices through click baits. In this paper, we intend to perform a parallel grouping of different news stories accessible online with the help of thoughts identifying with Artificial Intelligence, Natural Language Processing, and Machine Learning. The result of the project determines the fake news detection for social networks using machine learning and also checks the authenticity of the publishing news website.

2.3 Problem Statement Definition

PROBLEM:

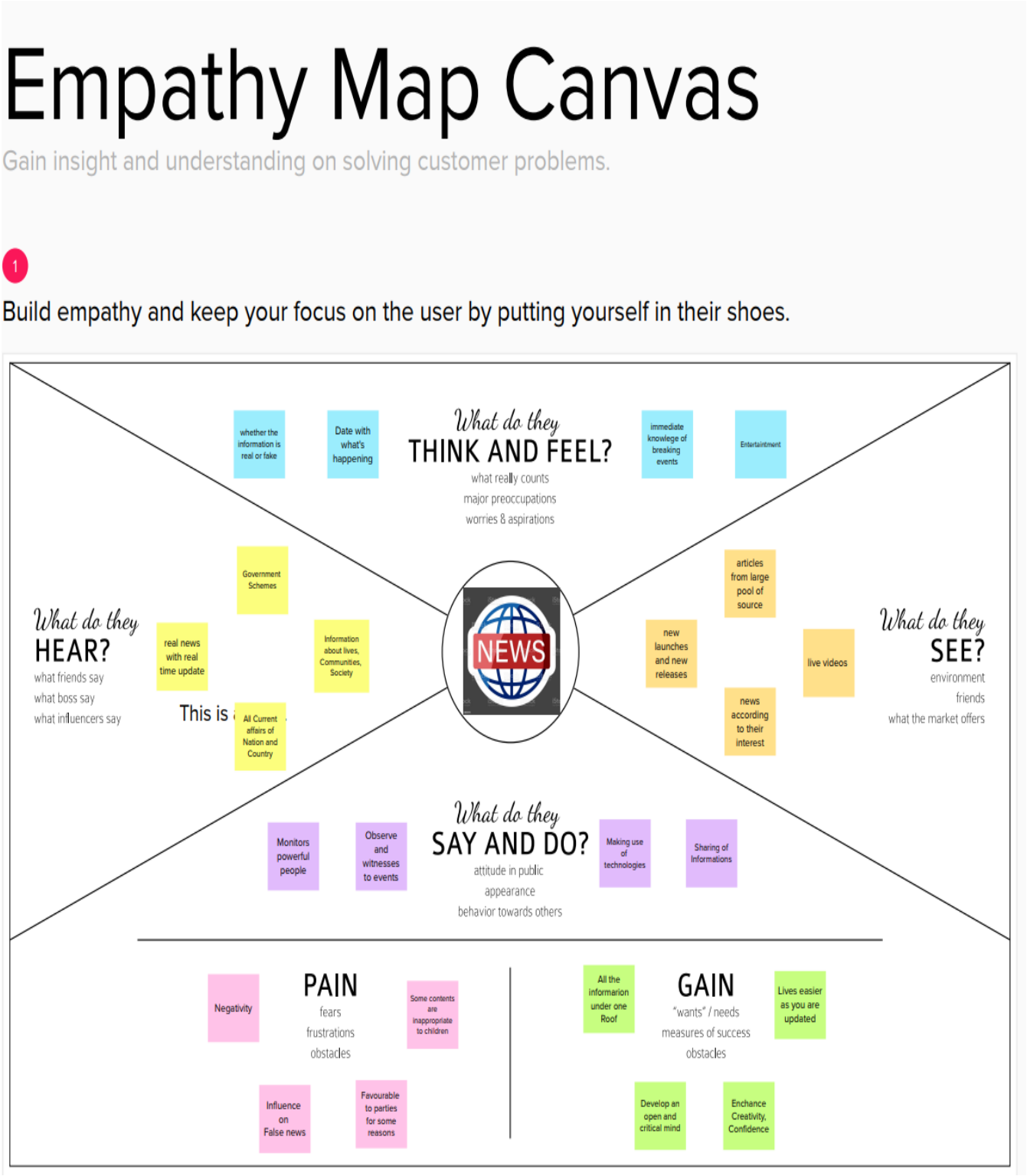
We encounter several events of local and national significance every day, and we rely on NEWS to inform us about them. However, we recently found there isn't a single platform that does both. As a result, we identified a social need and created a platform that offers such news in the form of brief films that are taken from the most reliable sources worldwide.

SOLUTION:

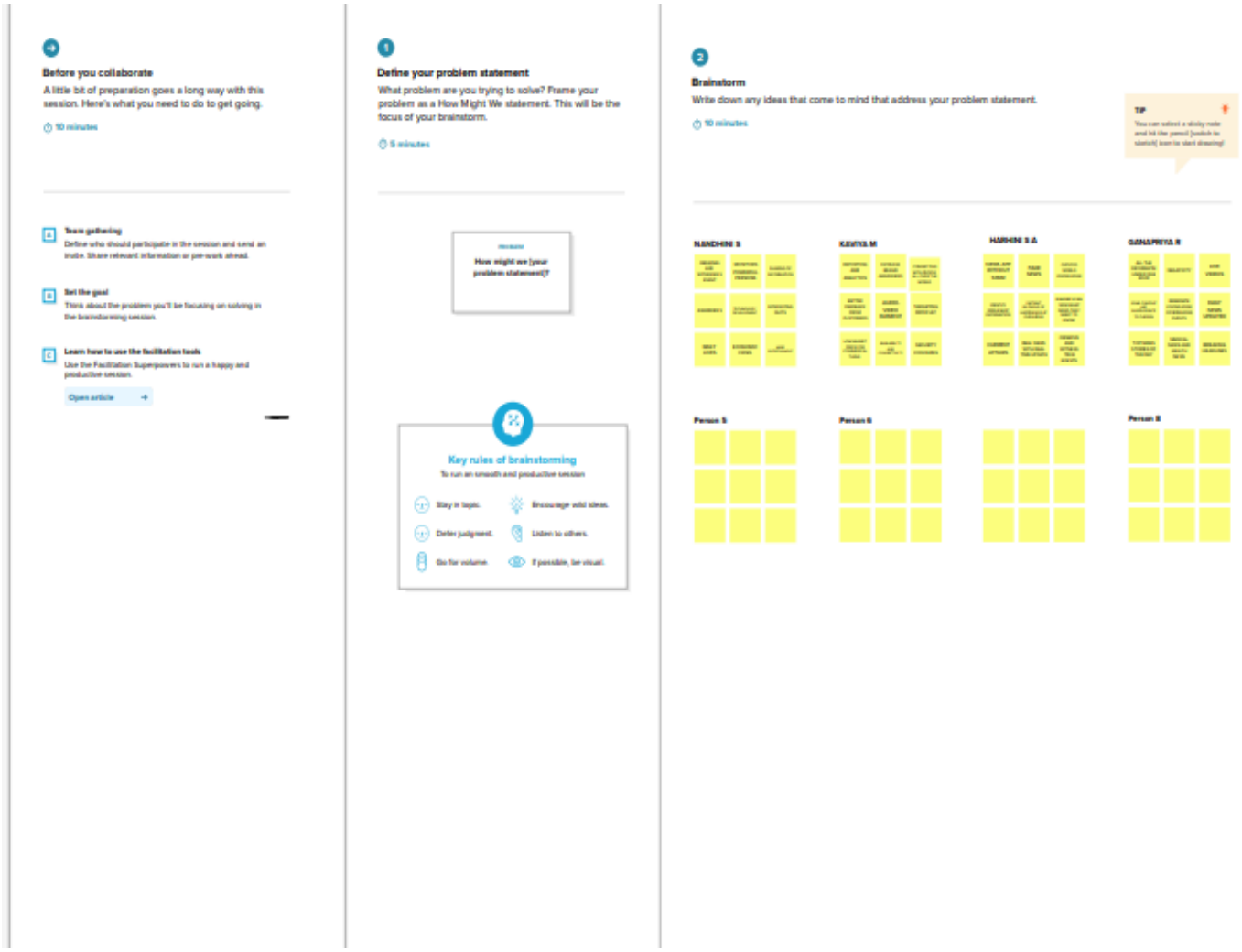
We deliver news in the form of quick videos. Distributing news from a reliable, trustworthy source everywhere, preventing the spread of false information. We offer local news in locations where there was already a news channel. One platform to read all of his/her favourite local news, dependance on search engines and social media. We added multiple languages to our platform so that locals could readily understand it.

3.IDEATION & PROPOSED SOLUTION

3.1Empathy Map Canvas



3.2 Ideation & Brainstorming

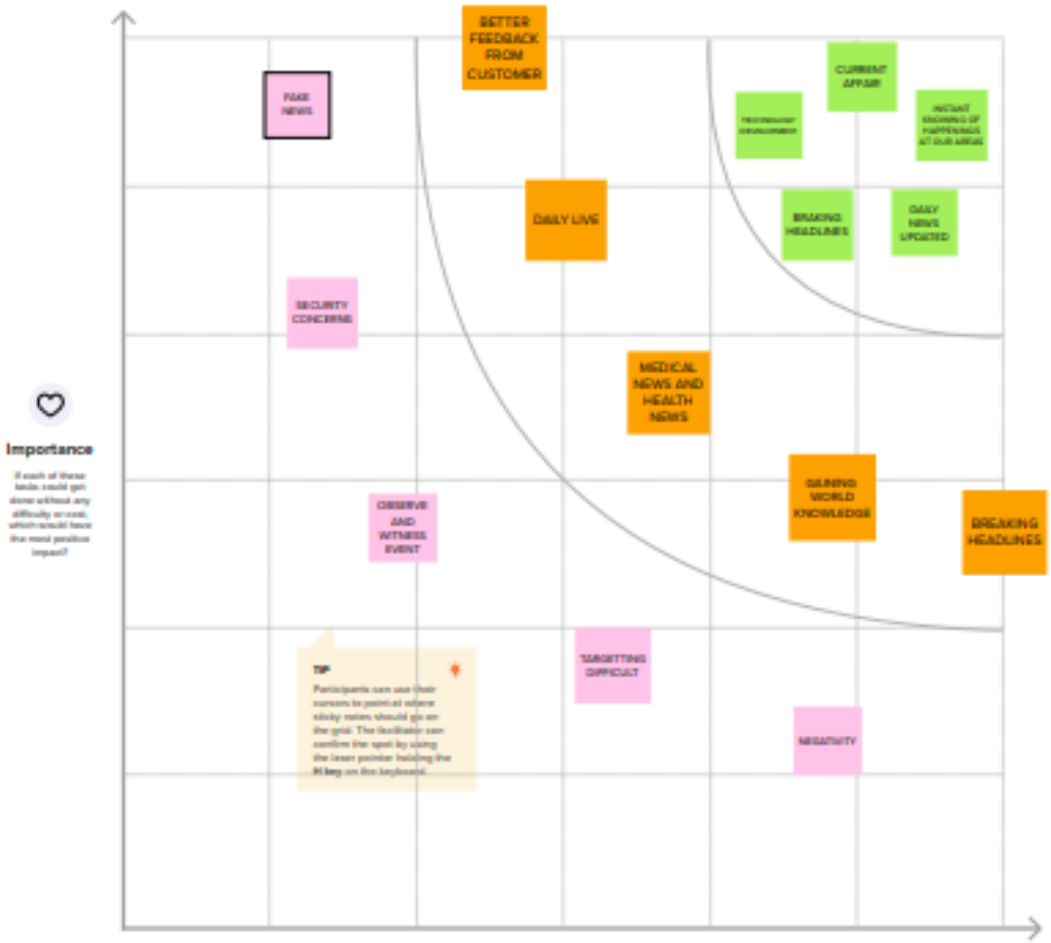


4

Prioritize

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

20 minutes

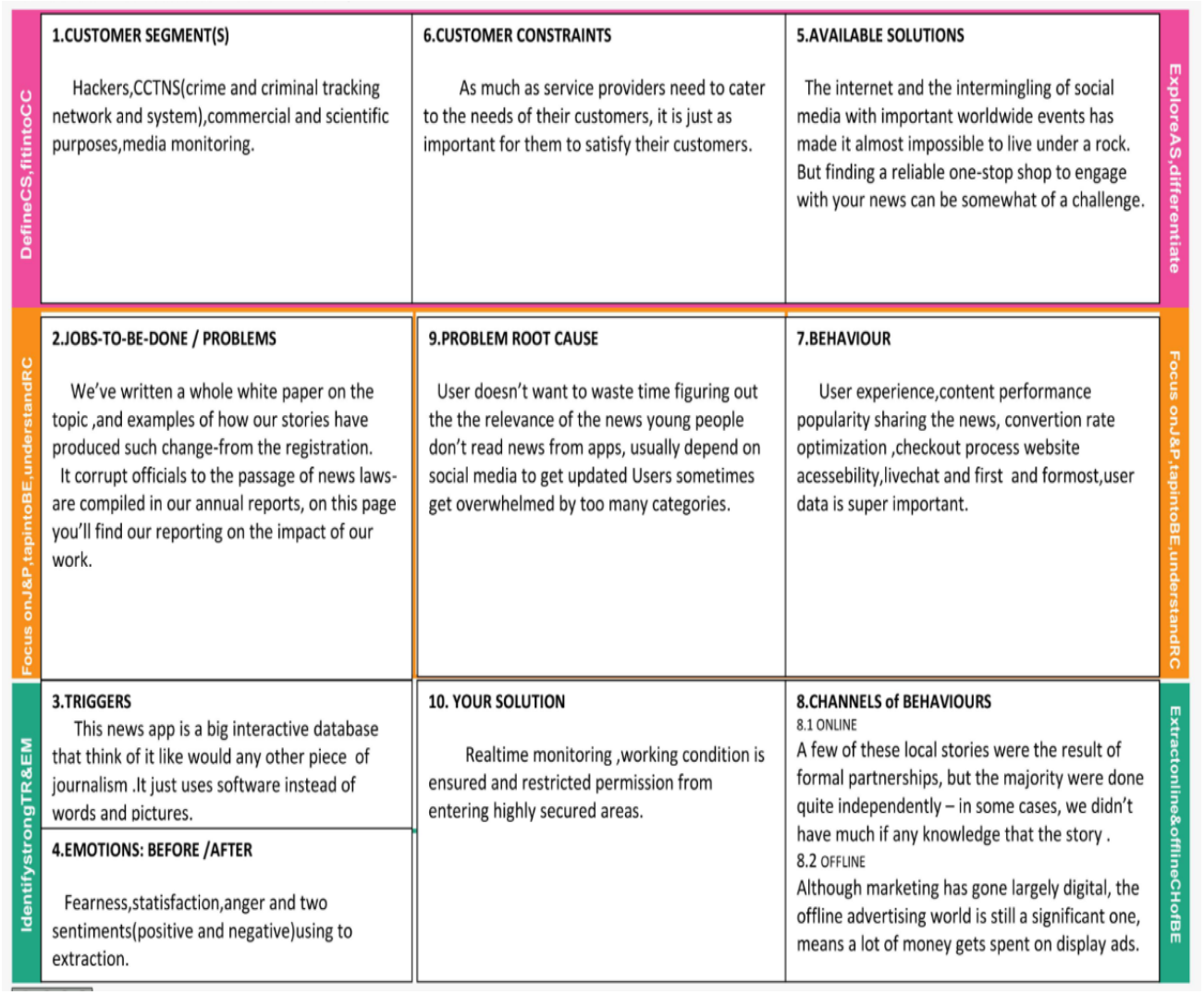


3.3 Proposed Solution

S.NO.	PARAMETER	DESCRIPTION
1.	Problem Statement(problem to be solved)	**Statement:**Encounter several events of local and national significance every day,And we rely on NEWS to inform usabout them. **Description:**As a result, we identified a social need and created a platform that offers such news in the form of brief films that are taken from the most reliable sources worldwide.
2.	Idea/Solution Description	1.Wedeliver news in the form of quick videos. Distributing news from a eliable, trustworthy source everywhere,preventing the spread of false information. 2.One platform to read all of his/her favourite local news, dependance on search engines and social media.
3.	Novelty/Uniqueness	1.Cloud computing developed the app called**Pro publica**uses networks and computer. 2.A news app should be generative meaning it should generate more stories and more reporting. 3.Propublica's best apps have been used as the basis for local stories.
4.	Social Impact/CutomerStatisfication	1.Impact has been the core of pro publica mission since we launched in 2008.,and it remains the principal yardstick for our success today. 2.Our investigative journalism does more than expose wrongdoing and injustice, we intend for it to spark real-word change.

5.	Business Model (Revenue Model)	1.ProPubkica is an independent, nonprofit newsroom that produces investigative journalism with moral force. 2.With a team of more than 100 dedicated journalists, pro publica covers a range of topics including government and politics, business, criminal justice, the environment and technology.
6.	Scalability Solution	1.This study sought to conduct a systematic review of the extant literature on cloud computing adoption by enterprise. 2.The cloud computing adoption factors and processes that were identified by using GT approach.

3.4 Problem Solution fit



4.REQUIREMENT ANALYSIS

4.1 Functional requirement

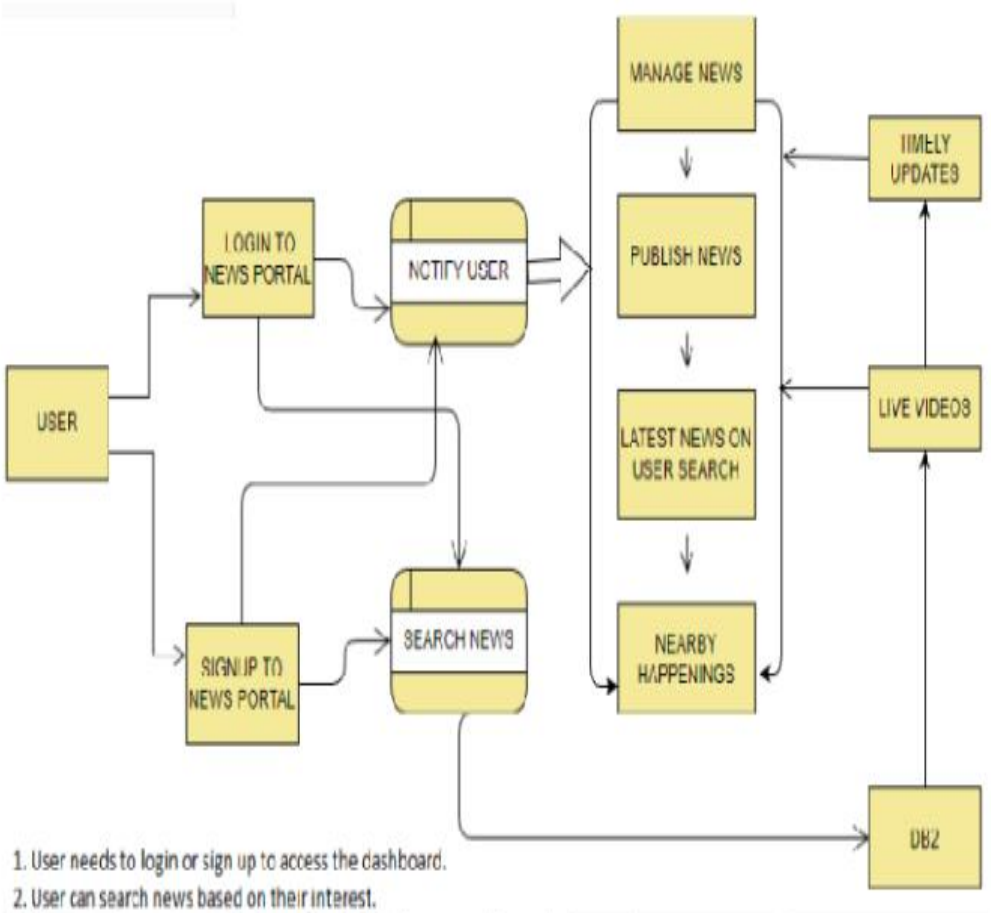
FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	**User Registration**	➢ Registration through Form ➢ Registration through Gmail
FR-2	**User Confirmation**	➢ Confirmation via Email ➢ Confirmation via OTP
FR-3	**Searching**	➢ Search the news based on the user interest ➢ Showing the trending news on search ➢ Showing the Category- wise news ➢ User can save the news needed and study later ➢ Help users find content with categorized
FR-4	**Real time News**	➢ User can see the Real news with Real time update ➢ Auto update news because it fetch news from API ➢ Show the Number of comments an article as a and the number of comment can be used as a measure of comment popularity
FR-5	**Location based**	➢ User can view the news near to their location ➢ User can track the Location of the news
FR-6	**User friendly**	➢ User can publish their own articles ➢ User can add images to their articles ➢ Users can see the articles Published by the other users ➢ Push notification are meant to attract users attention by using alerts, even if it's just for a second.

4.2 Non-Functional Requirements

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	➢ The news is updated almost every minute, in all this endless news flow, the user should always be able view exactly information that interest him/her at the moment. ➢ Search and Filtering function will provide the users with the opportunity to search for information of their interest according to specific criteria and parameters.
NFR-2	**Security**	➢ Authentication and password management ➢ During the comment, many users can be rude or Cruel, so of course, it worth thinking of algorithms that will allow you to block offensive comments, as well as spam.
NFR-3	**Reliability**	➢ Avoid the Fake news ➢ Instant news at instant time ➢ Track the location of the news
NFR-4	**Performance**	➢ Keep users In-App for longer with related post ➢ Show users the most relevant story first ➢ Keep your user's attention with list views
NFR-5	**Availability**	➢ Continuous running for example, 24/7, minimum idle time ➢ History of the previous news that happened before related to the present news
NFR-6	**Scalability**	➢ Get more user's by encouraging social sharing ➢ Keep users In-App for longer with related post

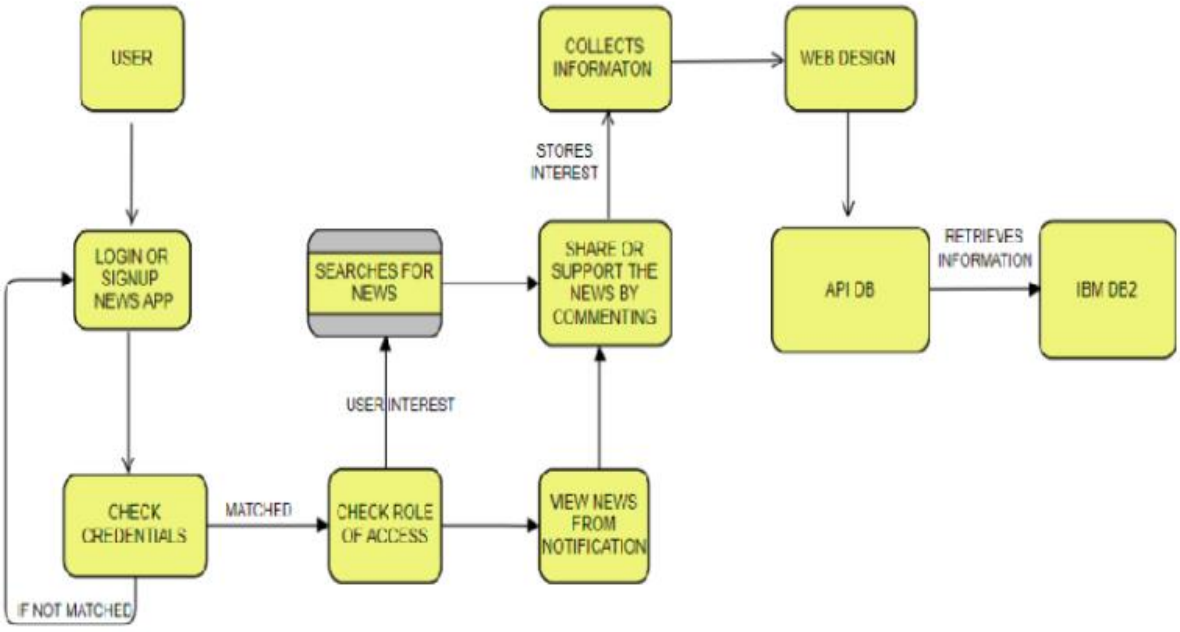
5.PROJECT DESIGN

5.1 Data Flow Diagrams

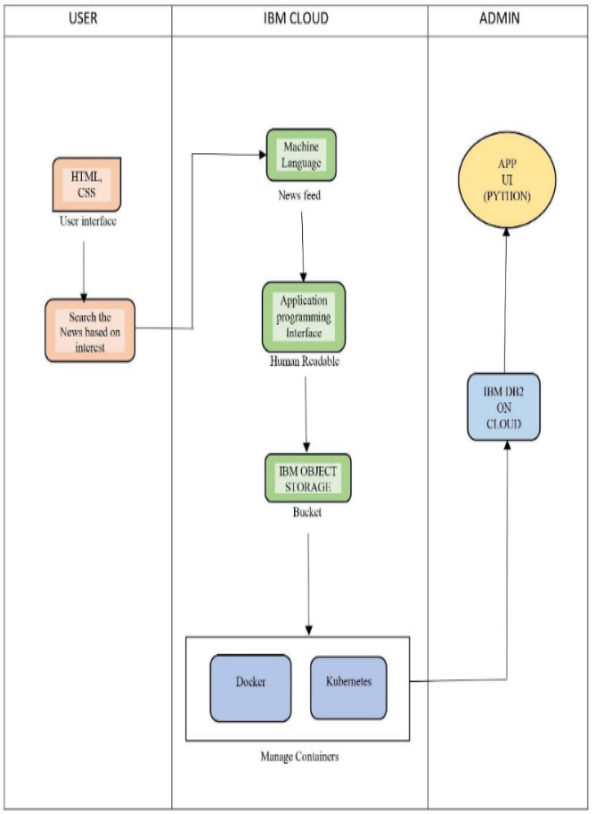


1. User needs to login or sign up to access the dashboard.
2. User can search news based on their interest.
3. User will also receive notification related to latest user search, nearby happenings.
4. The news will be received on timely updates with live videos.
5. This entire process is stored and collected from IBM DB2.

Example: DFD Level 0 (Industry Standard)



5.2 Solution & Technical Architecture



- The HTML and CSS are used for the user interface for the user to use the application.
- The user search for the news based on interest rather than scrolling down the all the news.
- The news feed is list of newly published content on website. End users can reciece push updates for new content on a site by subscribing to site's news feed.
- Feeds are designed to be machine-readable so they can they can transfer information from one computer to another without human intervention. Browser plug-ins, client-side applications called readers or application program interfaces (APIs) translate the code into human-readable text.
- IBM DB2 on cloud is used to acess the information of the news based on the user interest.

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interacts with the application using web development , which is used to get the information needed for the user.	HTML, CSS, JavaScript ,React Js etc.
2.	Application Logic	This logic depends on the extraction news from the database	Python
3.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
4.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
5.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
6.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Docker Cloud Server Configuration : Kubernetes	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	A software for which the original source code is made freely available and may be redistributed and modified according to the requirement of the user.	Python
2.	Security Implementations	Cloud Security Posture Management(CSPM), Detect cloud security and compliance configuration risk, anomalous activity, vulnerabilities, and misconfigurations.	Built-in encryption, BYOK
3.	Scalable Architecture	Python is one of the pioneers of programming languages that developers can use to do all the scaling work. To improve scalability, you can enable or disable services run by the dispatcher on individual servers to balance the load for a given computer by request type.	Technology used in the architecture is that with the Python and the IBM cloud.
4.	Availability	Availability is the ability of a system to withstand or ssrecover from exceptional situations, such as a computer failure. IBM Cloud is on-demand access, via the internet, to computing resources applications, servers (physical servers and virtual servers), data storage, development tools, networking capabilities, and more hosted at a remote data center managed by a cloud services provider (or CSP). .	Technology used are the IBM cloud and the database.
5.	Performance	DB2 is a database product from IBM. It is a Relational Database Management System (RDBMS). DB2 is designed to store, analyze and retrieve the data efficiently. DB2 product is extended with the support of Object-Oriented features and non-relational structures with XML.	Technology used are the python, cloud and ibm db2.

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	I can receive password to mail.	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can receive confirmation mail.	High	Sprint-1
	Dashboard	USN-6	The news portal and shows the recent NEWS as Breaking NEWS	I can Open and view the news portal.	Low	Sprint-2
Client(Web user)	Search Bar	USN-7	User searches for news based on their own interest.	I can view the related news and can watch videos.	High	Sprint-1
		USN-8	The news can be viewed that is appearing on the dashboard.	I shall click on the news wanted and can open it.	High	Sprint-1
Administrator	Server	USN-9	Provides correct news available from the database.		Medium	Sprint-1
		USN-10	Provide live news with video and audio contents.	I can get the news in which i'm interested.	High	Sprint-1

6.PROJECT PLANNING & SCHEDULING

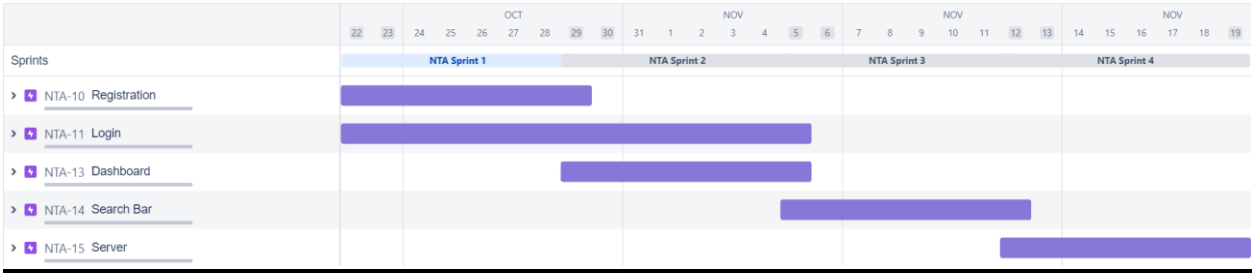
6.1 Sprint Planning & Estimation

Milestone	Function (Epic)	Milestone Story Number	Story / Task
Milestone -1	Registration	M1	As a user, I can register for the application by entering my email, password, and confirming my password.
Milestone-2		M2	As a user, I will receive confirmation email once I have registered for the application.
Milestone-3		M3	As a user, I can register for the application through Gmail.
Milestone-4	Login	M4	As a user, I can log into the application by entering email & password.
Milestone-5	Dash Board	M5	Shows the recent NEWS and Breaking NEWS.
Milestone-6	Search Bar	M6	User searches for News based on their own interest.
Milestone-7	Server	M7	Provides correct NEWS available from the database.
Milestone-8		M8	Provide live news with video and audio content.

6.2 Sprint Delivery Schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	R. Ganapriya
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	M. Kaviya
Sprint-2		USN-3	As a user, I can register for the application through Facebook	3	Low	S. A. Harhini
Sprint-1		USN-4	As a user, I can register for the application through Gmail	3	Medium	S. A. Harhini
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	3	High	S. Nandhini,
Sprint-2	Dashboard	USN-6	Shows the recent NEWS and Breaking NEWS.	5	Medium	R. Ganapriya
Sprint-3	Search Bar	USN-7	User searches for News based on their own interest.	3	High	S. Nandhini
Sprint-4	Server	USN-8	Provides correct NEWS available from the database.	8	Medium	M. Kaviya
Sprint-4		USN-9	Provide live news with video and audio content.	5	High	R. Ganapriya

6.3 Reports from JIRA



7. CODING & SOLUTIONING

7.1 Feature 1

```
 <!DOCTYPE html>
<html lang="en">
<head>
	<title>Home 01</title>
	<meta charset="UTF-8">
	<meta name="viewport" content="width=device-width, initial-scale=1">
	<link rel="icon" type="image/png" href="images/icons/favicon.png"/>
	<link rel="stylesheet" type="text/css" href="vendor/bootstrap/css/bootstrap.min.css">
	<link rel="stylesheet" type="text/css" href="fonts/fontawesome-5.0.8/css/fontawesome-all.min.css">
	<link rel="stylesheet" type="text/css" href="fonts/iconic/css/material-design-iconic-font.min.css">
	<link rel="stylesheet" type="text/css" href="vendor/animate/animate.css">
	<link rel="stylesheet" type="text/css" href="vendor/css-hamburgers/hamburgers.min.css">
	<link rel="stylesheet" type="text/css" href="vendor/animsition/css/animsition.min.css">
	<link rel="stylesheet" type="text/css" href="css/util.min.css">
	<link rel="stylesheet" type="text/css" href="css/main.css">
</head>
<body class="animsition">

	<!-- Header -->
	<header>
		<!-- Header desktop -->
		<div class="container-menu-desktop">
			<div class="topbar">
				<div class="content-topbar container h-100">
					<div class="left-topbar">
		<a href="./about.html" class="left-topbar-item">
                                        About
```

```
                    </a>
                    <a href="./contact.html" class="left-topbar-item">
                        Contact </a>
                    <a href="./ntp/SIGNUP.html" class="left-topbar-item">
                        Sign up</a>
        <a href="./ntp/login.html" class="left-topbar-item">
                                                Log in</a>
                    </div>
                    </div>
                </div>

                <!-- Header Mobile -->
                <div class="wrap-header-mobile">
                    <!-- Logo moblie -->
                    <div class="logo-mobile">
                        <a href="index.html"><img src="images/icons/logo-
01.png" alt="IMG-LOGO"></a>
                    </div>

                    <!-- Button show menu -->
                    <div class="btn-show-menu-mobile hamburger hamburger--
squeeze m-r--8">
                        <span class="hamburger-box">
                            <span class="hamburger-inner"></span>
                        </span>
                    </div>
                </div>
<div class="tab-content">
            <div class="tab-pane show active" id="news-0" role="tabpanel">
                                    <div class="row">
            <div class="col-3">

        <!-- Item post -->

        <div>

        <a href="blog-detail-01.html" class="wrap-pic-w hov1 trans-03">

            <img src="https://news123.s3.jp-tok.cloud-object-
storage.appdomain.cloud/Entertainment%201.jpg" alt="IMG">

        </a>

            <div class="p-t-10">

            <h5 class="p-b-5">

                <a href="blog-detail-01.html" class="f1-s-5 cl3 hov-cl10 trans-03">
```

Blue whales found to swallow 10 million microplastic pieces daily

</h5>

<!-- Item post -->

<img src="images/post-10.jpg" alt="IMG">

<h5 class="p-b-5">

Bitcoin Core’s Version 24.0 Full-RBF Proposal Sparks Controversy, Synonym CEO Calls ‘Pet Agenda’ an ‘Attack’

</h5>

<!-- Item post -->

<a href="blog-detail-01.html" class="wrap-pic-w hov1 trans-03">

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        </a>

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                    Switzerland creates world record for operating the longest passenger train!
                </a>
            </h5>
        </div>
        </div>
</div>
        <div class="col-3">
        <!-- Item post -->
        <div>
        <a href="blog-detail-01.html" class="wrap-pic-w hov1 trans-03">
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        </a>
      <div class="p-t-10">
            <h5 class="p-b-5">
                <a href="blog-detail-01.html" class="f1-s-5 cl3 hov-cl10 trans-03">
                    ‘No choice’: Musk defends Twitter layoffs, says company losing $4 million per day
                </a>
            </h5>
        </div>
        </div>
```

```
</div>
                    </div>
                    </div>

<div class="tab-pane" id="news-1" role="tabpanel">
<div class="row">
                    <div class="col-3">

<!-- Item post -->

<div>

<a href="blog-detail-01.html" class="wrap-pic-w hov1 trans-03">

        <imgsrc="https://news123.s3.jp-tok.cloud-object-
storage.appdomain.cloud/Sports%201.jpg" alt="IMG">

</a>

<div class="p-t-10">

        <h5 class="p-b-5">

                <a href="blog-detail-01.html" class="f1-s-5 cl3 hov-cl10 trans-03">

                Virat Kohli: An institution, a demigod and record-manufacturing machine

                </a>

        </h5>

</div>
</div>

        <div class="col-3">

<!-- Item post -->

<div>

<a href="blog-detail-01.html" class="wrap-pic-w hov1 trans-03">

        <imgsrc="https://news123.s3.jp-tok.cloud-object-
storage.appdomain.cloud/Entertainment%203.jpg" alt="IMG">

</a>

    <div class="p-t-10">

        <h5 class="p-b-5">
```

```
                    <a href="blog-detail-01.html" class="f1-s-5 cl3 hov-cl10 trans-03">

        Priyanka Chopra in Rs 96k blue pantsuit with bralette gives a lesson in power dressing

                    </a>

                </h5>

        </div>

        </div>
</div>
  <div class="col-3">

        <!-- Item post -->

        <div>

        <a href="blog-detail-01.html" class="wrap-pic-w hov1 trans-03">

                <imgsrc="https://news123.s3.jp-tok.cloud-object-
storage.appdomain.cloud/Entertainment%203.jpg" alt="IMG">

        </a>
        <div class="p-t-10">

                <h5 class="p-b-5">

                    <a href="blog-detail-01.html" class="f1-s-5 cl3 hov-cl10 trans-03">

                Priyanka Chopra in Rs 96k blue pantsuit with bralette gives a lesson in power dressing

                    </a>

                </h5>

        </div>

        </div>
</div>

<div class="col-3">

        <!-- Item post -->

        <div>

        <a href="blog-detail-01.html" class="wrap-pic-w hov1 trans-03">
```

<imgsrc="https://news123.s3.jp-tok.cloud-object-storage.appdomain.cloud/Health%202.jpg" alt="IMG">

<h5 class="p-b-5">

'Deltacron' variants could attack lungs like Delta, spread like Omicron: Report

</h5>

<!-- Item post -->

<imgsrc="https://news123.s3.jp-tok.cloud-object-storage.appdomain.cloud/Health%201.jpg" alt="IMG">

<!-- Item post -->

<imgsrc="https://news123.s3.jp-tok.cloud-object-storage.appdomain.cloud/Business%203.jpg" alt="IMG">


```
                <h5 class="p-b-5">
                    <a href="blog-detail-01.html" class="f1-s-5 cl3 hov-cl10 trans-03">
                        Netflix finally launches its cheaper, ad-supported subscription plan
                    </a>
                </h5>
            </div>
            </div>
            </div>
    <div class="col-3">
            <!-- Item post -->
            <div>
            <a href="blog-detail-01.html" class="wrap-pic-w hov1 trans-03">
                <img src="images/post-38.jpg" alt="IMG">
            </a>

            <div class="p-t-10">
                <h5 class="p-b-5">
                    <a href="blog-detail-01.html" class="f1-s-5 cl3 hov-cl10 trans-03">
                Virat Kohli: An institution, a demigod and record-manufacturing machine
                    </a>
                </h5>
            </div>
            </div>
            </div>
                </div>
            </div>
            </div>
</div>
</li>
```

```
        <li class="mega-menu-item">
<a href="category-02.html">Travel</a>
<div class="sub-mega-menu">
                <div class="nav flex-column nav-pills" role="tablist">
        a class="nav-link active" data-toggle="pill" href="#travel-1" role="tab">All</a>
                        <a class="nav-link" data-toggle="pill" href="#travel-2" role="tab">Hotels</a>
                </div>
<div class="tab-content">
        <div class="tab-pane show active" id="travel-1" role="tabpanel">
        <div class="row">
                <div class="col-3">

        <!-- Item post -->

        <div>

        <a href="blog-detail-01.html" class="wrap-pic-w hov1 trans-03">

                <imgsrc="https://news123.s3.jp-tok.cloud-object-
storage.appdomain.cloud/Travel%202.jpg" alt="IMG">

        </a>


        <div class="p-t-10">

                <h5 class="p-b-5">

                        <a href="blog-detail-01.html" class="f1-s-5 cl3 hov-cl10 trans-03">

                                The UK is all set to get the world's first Jumanji-theme park!

                        </a>

                </h5>

        </div>

        </div>
</div>

                        <div class="col-3">

        <!-- Item post -->

        <div>

        <a href="blog-detail-01.html" class="wrap-pic-w hov1 trans-03">

                <img src="images/post-41.jpg" alt="IMG">
```

```
		</a>


		<div class="p-t-10">

			<h5 class="p-b-5">

				<a href="blog-detail-01.html" class="f1-s-5 cl3 hov-cl10 trans-03">

					using electronic gadgets causes severe damage to children sense.

				</a>

			</h5>

		</div>

		</div>
</div>
<!-- Headline -->
		<div class="container">
			<div class="bg0 flex-wr-sb-c p-rl-20 p-tb-8">
				<div class="f2-s-1 p-r-30 size-w-0 m-tb-6 flex-wr-s-c">
					<span class="text-uppercase cl2 p-r-8">
						Trending Now:
					</span>

					<span class="dis-inline-block cl6 slide100-txt pos-relative size-w-0" data-in="fadeInDown" data-out="fadeOutDown">
					<span class="dis-inline-block slide100-txt-item animated visible-false">
							Interested people gets interesting news
						</span>

					<span class="dis-inline-block slide100-txt-item animated visible-false">
							Designer fashion show kicks off Variety Week
						</span>
					</span>
				</div>

				<div class="pos-relative size-a-2 bo-1-rad-22 of-hidden bocl11 m-tb-6">
					<input class="f1-s-1 cl6 plh9 s-full p-l-25 p-r-45" type="text" name="search" placeholder="Search">
					<button class="flex-c-c size-a-1 ab-t-r fs-20 cl2 hov-cl10 trans-03">
						<i class="zmdi zmdi-search"></i>
					</button>
				</div>
			</div>
		</div>
<!-- Banner -->
		<div class="container">
```

```
		<div class="flex-c-c">
			<a href="#">
				<img class="max-w-full" src="images/post-11.jpg" alt="IMG">
			</a>
		</div>
</div>

<!-- Latest -->
<section class="bg0 p-t-60 p-b-35">
		<div class="container">
			<div class="row justify-content-center">
				<div class="col-md-10 col-lg-8 p-b-20">
					<div class="how2 how2-cl4 flex-s-c m-r-10 m-r-0-sr991">
						<h3 class="f1-m-2 cl3 tab01-title">
							Latest Articles
						</h3>
					</div>

					<div class="row p-t-35">
						<div class="col-sm-6 p-r-25 p-r-15-sr991">
							<!-- Item latest -->
							<div class="m-b-45">
			<a href="blog-detail-01.html" class="wrap-pic-w hov1 trans-03">
				<img src="images/latest-01.jpg" alt="IMG">
			</a>

		<div class="p-t-16">
		<h5 class="p-b-5">
		<a href="blog-detail-01.html" class="f1-m-3 cl2 hov-cl10 trans-03">
		Share Market: stocks likely to be focus for next trading session
</a>
			</h5>
			</div>
			</div>
			</div>


					<!-- Item latest -->
		<div class="m-b-45">
			<a href="blog-detail-01.html" class="wrap-pic-w hov1 trans-03">
				<img src="images/latest-02.jpg" alt="IMG">
</a>
<div class="p-t-16">		<h5 class="p-b-5">
			<a href="blog-detail-01.html" class="f1-m-3 cl2 hov-cl10 trans-03">
RBI to launch digital rupee pilot, Instagram to let users mint and sell NFTs
		</a>
		</h5>
			</div>
			</div>
		</div>
```

```
!-- Footer -->
        <footer>

                <div class="bg11">
                    <div class="container size-h-4 flex-c-c p-tb-15">
                        <span class="f1-s-1 cl0 txt-center">
                            <div id="footer-box">
                                <div class="row">
                                  <ul class="nav">
                                      <li class="nav-item">
                                        <div class="final-footer-box">
                          <li id="nav-item">
                         <a class="nav-link" href="category-01.html">INDIA</a>
                       </li>
<li id="nav-item">
                          <a class="nav-link" href="blog-list-02.html">WORLD</a>
                           </li>

                           <li id="nav-item">
                                <a class="nav-link" href="blog-detail-01.html">BUSINESS</a>
                                 </li>

 <li id="nav-item">
                          <a class="nav-link" href="blog-detail-01.html">TECHNOLOGY</a>
                                 </li>

          <li id="nav-item">      <a class="nav-link" href="category-01.html">SPORTS</a>
                                 </li>

                    <li id="nav-item">
<a class="nav-link" href="category-01.html">ENTERTAINMENT</a>
                </li>
          </ul>
          </div>
</div>
     <div id="footer-box">
                <div class="row">
                <ul class="nav">
                      <li class="nav-item">
                            <div class="final-footer-box">
                    <p>PARTNER SITE</p>
                          </div>
                     </li>


 <li id="nav-item">
<a class="nav-link" href="https://zeenews.india.com/"

 >ZEE NEWS</a>

 </li>
```

```
 <li id="nav-item">

<a class="nav-link" href="https://zeenews.india.com/hindi"

>HINDI NEWS</a>
            </li>

 <li id="nav-item">
                    <a class="nav-link" href="https://zeenews.india.com/marathi"

>MARATHI NEWS</a >
 </li>

                     <li id="nav-item">

<a class="nav-link" href="https://zeenews.india.com/bengali"

>BENGALI NEWS</a>
                     </li>

            <li id="nav-item">
<a class="nav-link" href="https://zeenews.india.com/tamil"

>TAMIL NEWS</a>
            </li>
 <li id="nav-item">
<aclass="nav-link" href="https://zeenews.india.com/malayalam"

>MALAYALAM NEWS
                                        </a>
                                                </li>
                                         <li id="nav-item">
<a class="nav-link" href="https://www.zeebiz.com/">
                     ZEE BUSINESS</a>
                                                </li>
                                        </ul>
                                                </div>
                                               </div>

                                                        <div class="footer-end">
                                    <p>© ALL RIGHTS RESERVED.</p>
                                               </div>
                                               </div>


                                                <a href="#" class="f1-s-1 cl10 hov-link1"><!-- Link back to Colorlib can't be removed. Template is licensed under CC BY 3.0. -->
Copyright &copy;<script>document.write(new Date().getFullYear());</script> All rights reserved </a>
<!-- Link back to Colorlib can't be removed. Template is licensed under CC BY 3.0. -->
```

```
                        </span>
                    </div>
                </div>
            </footer>


            <script src="vendor/jquery/jquery-3.2.1.min.js"></script>
            <script src="vendor/animsition/js/animsition.min.js"></script>
            <script src="vendor/bootstrap/js/popper.js"></script>
            <script src="vendor/bootstrap/js/bootstrap.min.js"></script>
            <script src="js/main.js"></script>

</body>
</html>
```

7.2 Feature 2

App.py

```
from flask import Flask, render_template
app = Flask(_name_)


@app.route("/")
def home():
    return render_template('homepage.html')


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


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


# if _name_ == '_main_':
#     app.run(debug=True)
```

7.3 Database Schema

s.no	**Name**	**mailid**	**Password**
01	Nandhini	nandhinisaravananvlr@gmail.com	Nandhu04*06
02	Ganapriya	ganapriyaraja@gmail.com	Gana18*09
03	Harhini	harhinichandran@gmail.com	Harhini@123
04	Kaviya	Kaviyasumathi55@gmail.com	Kaviya*1210

8. TESTING
8.1 User Acceptance Testing

1. Purpose of Document

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

2. Defect Analysis

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	9	6	2	1	21
Duplicate	1	1	2	0	4
External	3	3	0	1	7
Fixed	9	2	4	16	33
Not Reproduced	3	0	1	0	4
Skipped	0	1	1	1	3
Won't Fix	0	7	3	1	11
Totals	25	20	13	20	83

Section	Total Cases	Not Tested	Fail	Pass
Print Engine	6	0	0	6
Client Application	47	0	0	47
Security	2	0	0	2
Outsource Shipping	3	0	0	3

Final Report Output	5	0	0	5
Version Control	2	0	0	2

9. PERFORMANCE METRICS

Cloud Performance Metrics

Cloud-based infrastructure, applications, and other components generate metrics companies can use to measure the reliability and operational excellence of their cloud services.

1. Uptime or availability

This metric measures the percentage of time a service or system is available to serve customer requests. Downtime is the opposite. Uptime increases your chances of retaining customers and generating revenue.

2. Memory utilization

Memory utilization helps to measure memory usage in public, private, and hybrid cloud environments. A consistently high memory utilization may require you to scale up your memory capacity to ensure smooth performance.

3. Requests per minute

Requests per minute tell how many requests a cloud-based application receives each minute. It is crucial to monitor how and when users access the app, so you can scale your cloud resources to meet demand, ensuring optimal performance.

4. Average time to acknowledge

Average time to acknowledge refers to the average time your application takes to begin a response to a request. If acknowledgement times are slow, then there may be a load balancer issue, or the app is struggling with underprovisioning and other latency issues.

5. Latency

Latency measures the time between when a customer sends a request (request time) and when the cloud provider sends back a response (response time). High latency can negatively impact productivity.

10. ADVANTAGES AND DISADVANTAGES

Fake News Detection system will help in controlling the spread of fake news over social media. This way, we can help the people to make more informed decisions, and they are not made to think about what others are trying to manipulate to believe. A Fake News Detection system will reduce the burden to check the authenticity of the news manually and saves lots of time.

The accuracy of detecting fake news will not be 100%. Therefore some articles may be predicted as false.

11. CONCLUSION

Manual classification of news articles requires in-depth knowledge and expertise in identifying anomalies in the text. It takes a lot of time to verify a single article manually that’s why we have discussed the problem of classifying fake news articles using machine learning models and ensemble techniques.

It is important that we have a mechanism to detect fake news, or at least an awareness that not everything we read on social media may be true. That is why we always have to think critically. This way, we can help the people to make more informed decisions, and they won't be led to think about what others are trying to manipulate them into believing.

12. FUTURE SCOPE

More than any newspaper or the physical magazine, the user attraction is much more higher in news apps. The apps allow the users to communicate directly and in case the users have any suggestion they can give on the app. This will also give idea to the app owners on how to enhance app's likeability.

With news app, it is possible to reach more customers with less efforts and the content distribution gets easy. All of the app users can be notified instantly with just a tap on the mobile screen or system.

13.APPENDIX

13.1 Source code

Flask.py

```
from flask import Flask, render_template
app = Flask(_name_)


@app.route("/")
def home():
   return render_template('homepage.html')


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


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


# if _name_ == '_main_':
#     app.run(debug=True)
```

Github and video link:

Github link :

https://drive.google.com/file/d/1CnW8AXClFrOOFsXxEKBtU1JkkIfNyk7p/view?usp=share_link

Video link:

https://github.com/IBM-EPBL/IBM-Project-45589-1660731154.git