

# **NEWS TRACKER APPLICATION**

## **IBM-DOCUMENTATION**

**TEAM ID : PNT2022TMID48385**

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# **PROJECT REPORT FORMAT**

## **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 I**

### **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**

### **Source Code**

### **GitHub & Project Demo Link**

# **News Tracker Application**

## **1.INTRODUCTION**

To get worldwide news at anywhere and anytime by this we can save time and stay on the top trends. Easy to find the fake news. Understanding people's online behavior has traditionally been a field of interest of commercial research agencies. To analyze the way news consumers visit news websites and Understand how these websites fit in their daily news consumption pattern.

### **1.1Project overview**

As news is increasingly accessed on smartphones and tablets, the need for personalizing news app interactions is apparent. We report a series of three studies addressing key issues in the development of adaptive news app interfaces. We first surveyed users' news reading preferences and behaviors'; 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.

### **1.2Purpose**

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.

# News Tracker Application

## Introduction

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

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

## Literature survey

Here, we will take a look at all the previous solutions, attempts and implementations to the news tracker application or anything that is at least vaguely related to it.

### ***Existing Solutions***

[NewsBreak](#) is a popular website to read ongoing and past news via the internet browsers. The website works by aggregating news from various sources and presents them in a likable manner for the users to read it.

The website also offers the ability for users to sign up to the so said website and record their progress, manage profiles, no.of news read, bookmark news, commenting on news ends and so on.

S.No	Paper Title	Author(s)	Month /Year	Method/Implementation technique(s)	Resource Link
1	Exploring mobile news reading interactions for news app personalisation	Marios Constantinidis, John Dowell, David Johson, Sylvain Malacria	August, 2015	<ol style="list-style-type: none"> <li>1. Identification of news reader types</li> <li>2. Interaction logging and classification study</li> <li>3. Deployment and data collection</li> <li>4. Predicting News reader types</li> <li>5. Adaptive UI</li> </ol>	<a href="#">(PDF) Exploring mobile news reading interactions for news app personalisation (researchgate.net)</a>
2	Detection and Tracking in News Articles	Sagar Patel, Sanket Suthar, Sandip Patel, Neha Patel	March, 2015	<ol style="list-style-type: none"> <li>1. Pre-processing</li> <li>2. Tokenization</li> <li>3. Stemming/ L emmization</li> <li>4. Vector Space Model</li> <li>5. Topic tracking</li> </ol>	<a href="#">(PDF) Topic Detection and Tracking in News Articles (researchgate.net)</a>
3	Following the Fed with a News Tracker	Michael William McCracken	January, 2012	The paper is not a technical paper but is essentially a statistical paper on how should one conclude whether the data have come in stronger, weaker or as expected. This is based on the CitiGroup U.S Economic Surprise Index.	<a href="#">(PDF) Following the Fed with a News Tracker (researchgate.net)</a>

4	An End-to-end Weakly-supervised News Aggregation Framework	Xijin Tang, Xiaohui Huang	June, 2022	<p>The framework combines Snorkel-based weakly-supervised classification, Latent Dirichlet Allocation (LDA) topic modeling, and topic signal detection model to classify and aggregate unlabeled news texts and ultimately generate visualized results containing news categories, news topics, and temporal topic relationships. This paper uses constructed knowledge thesaurus and the Snorkel method to weakly supervise the classification of unlabeled news with no manual tagging. Subsequently, we utilize LDA to generate the topics and obtain the signal value of each topic based on the topic signal detection function. Finally, we establish the temporal topic relationships and get the visualized results of news aggregation.</p>	<a href="#">An End-to-end Weakly-supervised News Aggregation Framework   Request PDF (researchgate.net)</a>
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# NEWS



# TRACKER

Gain insight and understanding on solving customer problems.

Build empathy and keep your focus on the user by putting yourself in their shoes.

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*at a*

It helps to  
gather the news  
easily .

To get the news  
at anywhere &  
anytime

News language  
is easy to  
understand.

what really counts  
major preoccupations  
work & a practical

Easy to  
access the  
news.

All  
generation  
can see the  
news.

Easy to  
update the  
news to the  
persona

Fear of  
fake  
news.

Sometimes it  
may cause  
frustrations.

While getting  
the news, delay  
of time due to  
network issues.

# PROBLEM STATEMENT

Fahisha Firdouse. A is a/an

user name

Common people

user characteristics

who needs

To get the news anywhere and anytime

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user need

because

Even in my busy schedule to get the news

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Google insight

# PROBLEM STATEMENT

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who needs

- To collect world wide business information

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user need

because

- She want to move next level of her business

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insight



Google

2018 | Confidential and Proprietary

# PROBLEM STATEMENT

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- Application developer

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who needs

- To upload different information about the world

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user need

because

- She wish update more information

insight





# PROBLEM STATEMENT

- Sivarathinam.C

user name

is a/an

- Manager

user characteristics

who needs

- To update all information to the people

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user need

because

- She is a social worker

▪

insight

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

PROBLEM

To get the news anywhere & anytime because even in a busy schedule and to collect worldwide business information because we need to know real level of our business , even to update information about the world because our wish to update more information for users who may be common people, business people, application developer, etc...



Fahisha firdouse



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

Keerthika



Meenu sri



Siva Rathinam



Brainstorm

Write down any ideas that come to mind.

Tip

Focus on the problem & its underlying reason, avoid this: How many...? (quantify the idea) How many...? (quantify the idea) How many...? (quantify the idea)

Key rules of brainstorming

To run an smooth and productive session

Encourage wild ideas. Listen to others.

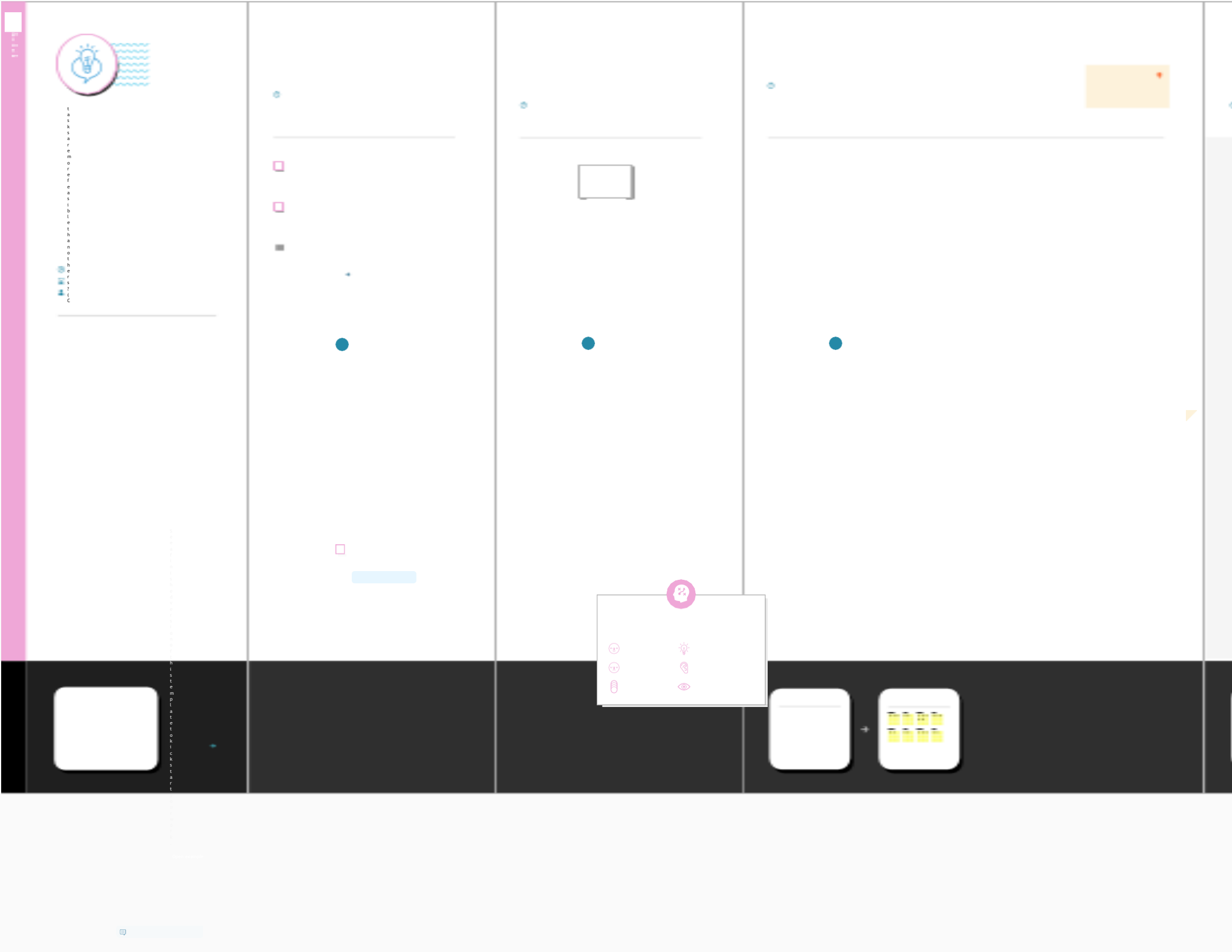
[Open the template](#)  
Go for volume. [If possible, be visual.](#)

Track your stress level

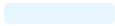
**TIP**

Participants can use their cursors to point at where sticky notes should go by hovering over the H key on the keyboard.

[Share template feedback](#)



tasks are more flexible than others (C)



tasks are more flexible than others





**Project Design Phase-I**  
**Proposed Solution Template**

Date	24 September 2022
Team ID	PNT2022TMID48385
Project Name	NEWS TRACKER APPLICATION
Maximum Marks	2 Marks

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
•	Problem Statement (Problem to be solved)	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.
•	Idea / Solution description	In order to save time you can bring all the news, updates, insights, tips, guides, articles into one location with content aggregators.
•	Novelty / Uniqueness	Public may also upload their news, by their location admin can find fake or real news.
•	Social Impact / Customer Satisfaction	Helps news readers to get required information within less time.
•	Business Model (Revenue Model)	We can include the adds in portal.
•	Scalability of the Solution	Reducing the time by changing the conventional method of reading news can help.

Identify strong TR & EM	<div><div>1. CUSTOMER SEGMENT(S)</div><div>Who is your customer? i.e. working parents of 0-5 y.o. kids</div><div><div>CS</div><div><div><div><div>Business person</div><div>Students</div><div>Unemployed</div><div>common people</div><div>Other media</div><div>Political Event</div></div></div></div></div></div>	<div><div>6. CUSTOMER CONSTRAINTS</div><div>What constraints prevent your customers from taking action or limit their choices of solutions? i.e. spending power, budget, no cash, network connection, available devices.</div><div><div>CC</div><div><div><div>Helps news readers to get required information within less time</div><div>This will help the users to share news on various platform such as twitter or facebook.</div></div></div></div></div>	<div><div>5. AVAILABLE SOLUTIONS</div><div>Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros &amp; cons do these solutions have? i.e. pen and paper is an alternative to digital notetaking</div><div><div><div>The news app collects all the stories you want to read from your favourite sources, about the topics that interest you most.</div></div></div></div>
	<div><div>2. JOBS-TO-BE-DONE / PROBLEMS</div><div>Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.</div><div><div>JP</div><div><div><div>In order save time you can bring all the news updates, insights, tips, guides, articles into one location with content aggregators .</div><div>Helps news readers to get required information within less time</div></div></div></div></div>	<div><div>9. PROBLEM ROOT CAUSE</div><div>What is the real reason that this problem exists? What is the back story behind the need to do this job? i.e. customers have to do it because of the change in regulations.</div><div><div>RC</div><div><div><div>Facilitating the readers of news to get filtered and relevant news avoiding spam, fake and irrelevant news through a UX Hackathon Design.</div></div></div></div></div>	<div><div>7. BEHAVIOUR</div><div>What does your customer do to address the problem and get the job done? i.e. directly related: find the right solar panel installer, calculate usage and benefits; indirectly associated: customers spend free time on volunteering work (i.e. Greenpeace)</div><div><div>BE</div><div><div><div>This project is about a news tracking website that has a membership control panel, content , browser search engine , last news, most popular and most embarassing news, related and suggested news and tags , corprate content and comments.</div></div></div></div></div>
	<div><div>3. TRIGGERS</div><div>What triggers customers to act? i.e. seeing their neighbour installing solar panels</div><div><div>TR</div><div><div><div>To get the worldwide news at anywhere &amp; anytime by this we can save the time &amp; staying on the top trends. Easy to find the fake news.</div></div></div></div></div>	<div><div>10. YOUR SOLUTION</div><div>If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality. If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour.</div><div><div>SL</div><div><div><div>We provide news in brief in the form of short videos.</div><div>Providing news from a legitimate trusted source across the world , so that fake news should not spread out.</div><div>One platform to go through all his preferred news around him.</div><div>We made our platform multilingual so that regional people understood it easily.</div></div></div></div></div>	<div><div>8.CHANNELS of BEHAVIOUR</div><div>8.1 ONLINE What kind of actions do customers take online? Extract online channels from #7</div><div>8.2 OFFLINE What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.</div><div><div>CH</div><div><div><div>Understanding people's online behaviour has traditionally been a field of interest of commercial research agencies.1) To analyse the way news consumers visit news website and 2) Understand how these websites fitin their daily news consumption pattern.</div></div></div></div></div>
	<div><div>4. EMOTIONS: BEFORE / AFTER</div><div>How do customers feel when they face a problem or a job and afterwards? i.e. lost, insecure &gt; confident, in control - use it in your communication strategy &amp; design.</div><div><div>EM</div><div><div><div>BEFORE : Time management problem fake news.</div><div>AFTER : Uploading by anyone fake news identified, time saving.</div></div></div></div></div>		<div><div>8.CHANNELS of BEHAVIOUR</div><div>8.1 ONLINE What kind of actions do customers take online? Extract online channels from #7</div><div>8.2 OFFLINE What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.</div><div><div>CH</div><div><div><div>Understanding people's online behaviour has traditionally been a field of interest of commercial research agencies.1) To analyse the way news consumers visit news website and 2) Understand how these websites fitin their daily news consumption pattern.</div></div></div></div></div>



**Project Design Phase-II**  
**Solution Requirements (Functional &**  
**Non- functional)**

Date	16 October 2022
Team ID	PNT2022TMID48385
Project Name	News Tracker Application
Maximum Marks	4 Marks

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form
		Registration through Gmail
FR-2	User Confirmation	Confirmation via Email
FR-3	User Login	Login Via Email ID & Password
FR-4	Home Page	Shows the NEWS Headlines.
FR-5	Tracker Page	Shows the NEWS elaboratively when the NEWS Headlineof the Home page is clicked.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Our Website is used to Read News and gain Knowledgeaccording to user's interest.
NFR-2	<b>Security</b>	User can only login with their own Email ID and password without their Email and password no one can use the App.
NFR-3	<b>Reliability</b>	Our Website delivers the reliable content only fromNEWS API.
NFR-4	<b>Performance</b>	It is a high performable App with friendly User Interfaceand shares lot of information without any Issues.
NFR-5	<b>Availability</b>	Our Website is supported with all search Engine so it will Avail forUser at any time and anywhere.

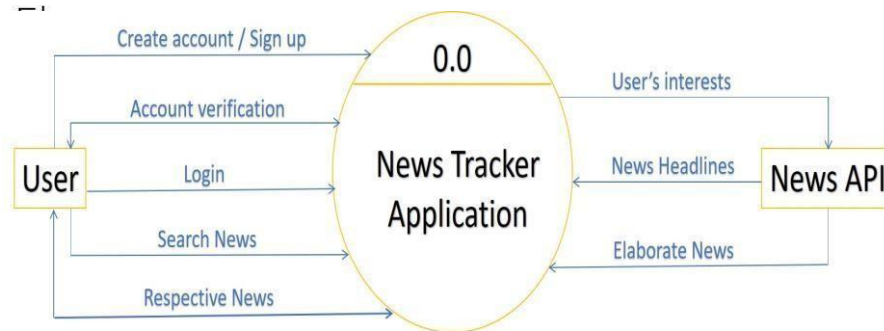
Example: [\(Simplified\)](#)

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# S e r v i c e

# S

Date	16 October 2022
Team ID	PNT2022TMID48385
Project Name	News Tracker Applica
Maximum Marks	4 Marks



1. User configures credentials for the Watson Natural Language Understanding service and starts the app.
2. User selects data file to process and load.
3. Apache Tika extracts text from the data file.
4. Extracted text is passed to Watson NLU for enrichment.
5. Enriched data is visualized in the UI using the D3.js library.



## User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Web 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
	Login	USN-3	As a user, I can log into the application by entering email & password	I can access my dashboard	High	Sprint-2
	Home Page	USN-4	As a user I can view the headlines of the news that interest me	I can read the news elaborately by clicking on the headlines	High	Sprint-2
		USN-5	As a user I can view the elaborate content of the headlines	I can download that to read it when iam free even in offline mode	Medium	Sprint-3
		USN-6	As a user I can search a news I want	I can read the news elaborately	High	Sprint-4
Customer Care Executive	Chatbot	USN-6	As a user I can solve my doubts about the application with the help of the chatbot.If the doubt is not resolved the chatbot guides us on how to contact the customer care executive	I can contact the customer care executive if needed	Medium	Sprint-3
Administrator	About us	USN-7	As a user I can view about the application and the developers of the application	I can be able to see their other applications	low	Sprint-4

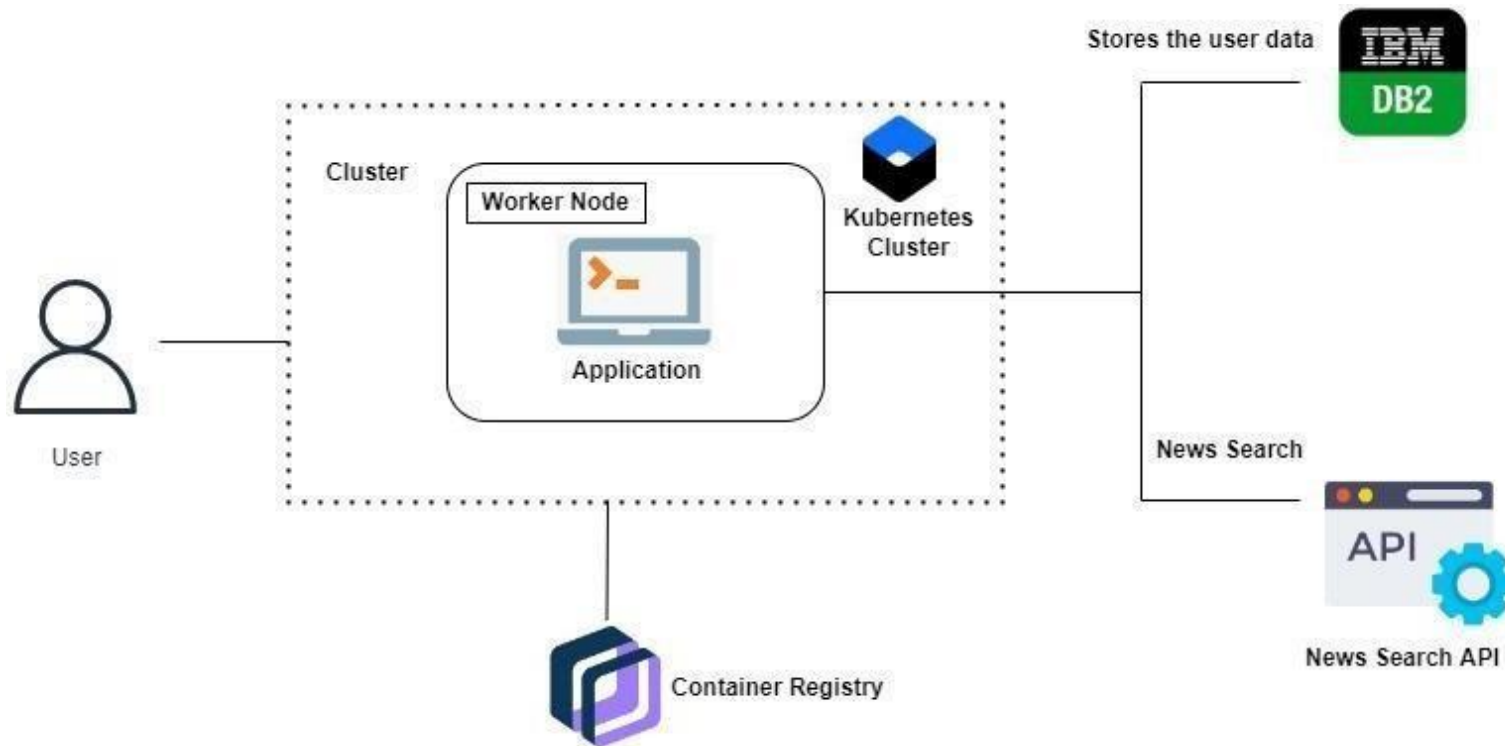
Technical Architecture:

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Date	16 October 2022
TeamID	PNT2022TMID48385
Project Name	News Tracker Application
Maximum Marks	4 Marks



**Table-1 : Components & Technologies:**

S.No	Component	Description	Technology
1.	User Interface	User interacts with application with ease of use and most handy environment with minimum effort on user to receive maximum effort	HTML, CSS, JavaScript
2.	Application Logic-1	This application starts with login page where user sign up or sign in web application	Java / Python
3.	Application Logic-2	User enters personal data to update their Account profile where IBM watson stt service used to convert audio to text that is user can fill their detail by voice assistance	IBM Watson STT service
4.	Application Logic-3	User can view news content based on dates and places where chatbot is used there to filter content	IBM Watson Assistant
5.	Database	User data gets stored in database for lateral purposes	MySQL
6.	Cloud Database	Here Database Service are used in IBM DB2 .Using this users can access all the data stored in cloud through network from any accessible device	IBM DB2, IBM Cloudant
7.	File Storage	Users personal data and last visited news content are get stored in IBM block storage	IBM Block Storage
8.	External API-1	Application used IBM Weather to get exact weather report as it is one of the mandatory news content	IBM Weather API
9.	Infrastructure (Cloud)	Application Deployment on Cloud for faster and flexible performance over the internet	Kubernetes

**Table-2: Application Characteristics:**

<b>S.No</b>	<b>Characteristics</b>	<b>Description</b>	<b>Technology</b>
1.	Open-Source Frameworks	Here this application is light weight application using flask (python) as a backend development	Flask(Python)
2.	Security Implementations	Application contains user personal information, login credentials, transaction details are protected and kept confidential using data protection in IBM cloud	IAM in IBM cloud
3.	Scalable Architecture	Here application runs 24/7 as it is scalable where size is everything. So flask is used to perform web application quickly	Flask(Python)
4.	Availability	Application functions properly and will justify requirements .It can be accessible anytime	Docker,Kubernetes cluster
5.	Performance	Application trace every request and building blocks efficiently for better performance	Instana



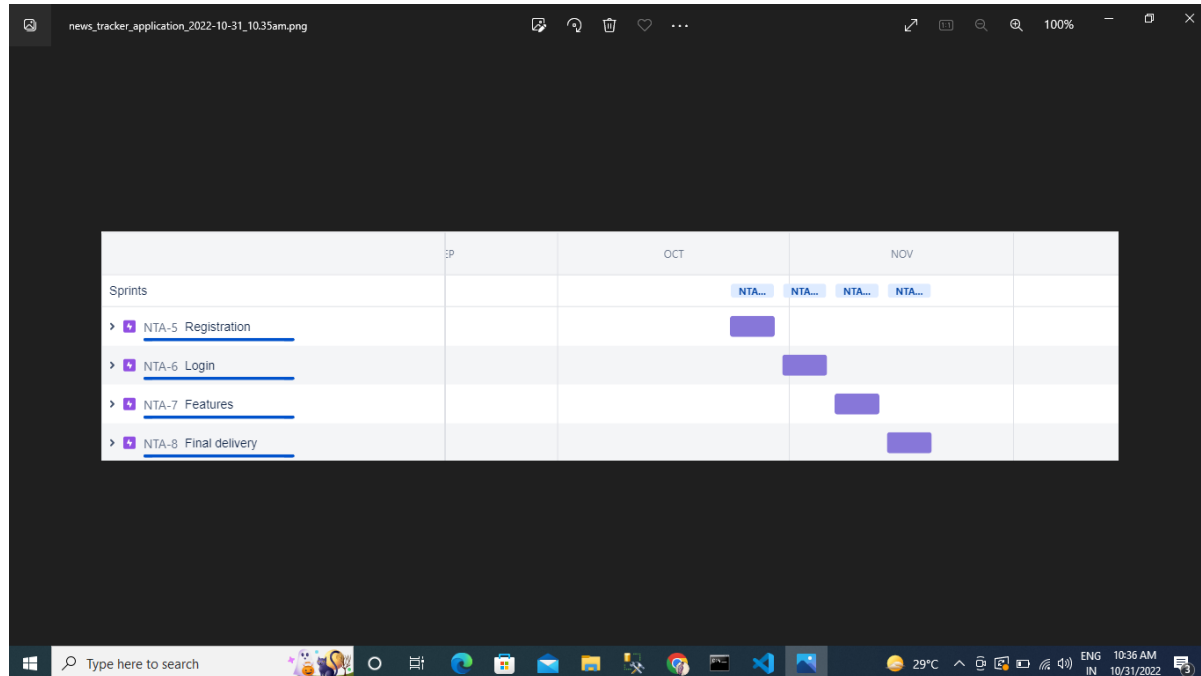
## Backlog

The screenshot shows the Jira Backlog view for the 'News Tracker Application' project. The left sidebar contains a navigation menu with 'Backlog' selected under the 'PLANNING' section. The main area displays a list of issues organized by sprints. Two sprints are visible: 'NTA Sprint 3' (Nov 7-12) and 'NTA Sprint 4' (Nov 14-19). Each sprint contains a list of issues, including 'NTA-3' and 'NTA-4'. The 'NTA-3' issue is in the 'IN PROGRESS' state, while 'NTA-4' is in the 'FINAL DELIVERY' state. A 'Quickstart' button is visible in the bottom right corner of the main area.

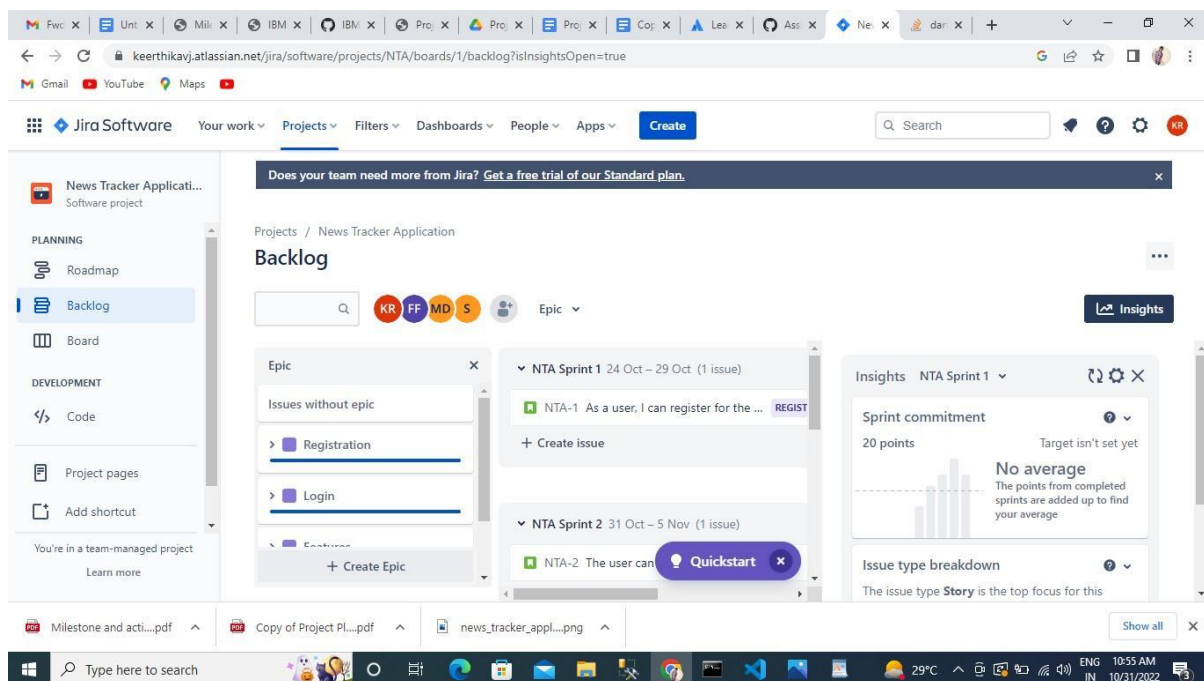
## Board

The screenshot shows the Jira Board view for the 'News Tracker Application' project. The left sidebar contains a navigation menu with 'Board' selected under the 'PLANNING' section. The main area displays a Kanban board with three columns: 'TO DO', 'IN PROGRESS 4 ISSUES', and 'DONE'. The 'IN PROGRESS' column contains two issues: 'NTA-3' and 'NTA-2'. The 'NTA-3' issue is in the 'FEATURES' state, and the 'NTA-2' issue is in the 'LOGIN' state. A 'Quickstart' button is visible in the bottom right corner of the main area.

## Roadmap



## Insight



Date	20 October 2022
Team ID	PNT2022TMID48385
Project Name	Project – News Tracker Application

## MILESTONE AND ACTIVITY LIST

TITLE	DESCRIPTION	DATE
<b>Literature Survey and Information gathering.</b>	Literature survey on the selected project & gathering information by referring the, technical paper research publications etc.	13 SEPTEMBER 2022.
<b>Prepare Empathy Map.</b>	Prepare Empathy Map Canvas to capture the user Pains & Gains, Prepare list of problem statements.	06 SEPTEMBER 2022.
<b>Ideation.</b>	List the idea by organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility & importance.	12 SEPTEMBER 2022.
<b>Proposed Solution.</b>	Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc.	06 SEPTEMBER 2022.
<b>Problem Solution Fit.</b>	Prepare problem - solution fit document.	02 SEPTEMBER 2022.
<b>Solution Architecture.</b>	Prepare solution architecture document.	01 OCTOBER 2022.
<b>Customer Journey.</b>	Prepare the customer journey maps to understand the user interactions & experiences with the application.	14 OCTOBER 2022.
<b>Data Flow Diagrams Draw the data flow.</b>	Data Flow Diagrams, draw the data flow.	14 OCTOBER 2022.

<b>Technology Architecture.</b>	Architecture diagram.	03 OCTOBER 2022.
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<b>Prepare Milestone &amp; Activity List.</b>	Prepare the milestones & activity list of the project.	18 OCTOBER 2022.
<b>Project Development - Delivery of sprint – 1,2,3 &amp; 4</b>	Develop & submit the developed code by testing it.	1. 29 OCTOBER 2022, 2.05 NOVEMBER 2022, 3. 12 NOVEMBER 2022, 4. 19 NOVEMBER 2022

## Project Planning Phase

### Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	20 October 2022
Team ID	PNT2022TMID48385
Project Name	Project - News Tracker Application
Maximum Marks	8 Marks

#### Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint 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.	20	High	Fahisha Firdouse.A
Sprint-2	Login	USN-2	The user can see the news according to their interest.	20	High	keerthika.R
Sprint-3	Features	USN-3	The application will keep track of the news topics that user is most interested mostly.	20	High	Meenu sri.D
Sprint-4	Final delivery	USN-4	The app will customize the news according to the user interest from the data collected earlier.	20	High	Sivarathinam.C

#### Project Tracker, Velocity & Burndown Chart: (4 Marks)

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

### Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

### Burndown Chart:

	SEP	OCT	NOV				
Sprints			NTA...	NTA...	NTA...	NTA...	
> ⚡ <u>NTA-5 Registration</u>							
> ⚡ <u>NTA-6 Login</u>							
> ⚡ <u>NTA-7 Features</u>							
> ⚡ <u>NTA-8 Final delivery</u>							



TEAMID	PNT2022TMID48385
PROJECT	NEWS TRACKER APPLICATION

## SPRINT 2

### INDEX.HTML

```
<!doctype html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1">
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.m
in.css" rel="stylesheet"
integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoq
y12OvZ6jIW3" crossorigin="anonymous">
  <link rel="stylesheet" href="style.css">
  <title>News Website</title>
</head>

<body class="m-0 p-0">

  <div class="container-fluid m-0 p-0">

    <!-- navbar -->
    <div>
      <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
        <div class="container-fluid">
          <a class="navbar-brand text-warning"
href="#">News34</a>
          <button class="navbar-toggler" type="button"
data-bs-toggle="collapse"
data-bs-target="#navbarSupportedContent"
aria-controls="navbarSupportedContent"
aria-expanded="false" aria-label="Toggle
navigation">
```

```

        <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse"
id="navbarSupportedContent">
        <ul class="navbar-nav me-auto mb-2 mb-lg-0">
            <li class="nav-item">
                <a class="nav-link" aria-current="page"
href="#genral" id="genral">Genral</a>
            </li>
            <li class="nav-item">
                <a class="nav-link" aria-current="page"
href="#business" id="business">Business</a>
            </li>
            <li class="nav-item">
                <a class="nav-link" href="#sports"
id="sport">Sports</a>
            </li>
            <li class="nav-item">
                <a class="nav-link"
aria-current="page"
href="#tehnology" id="technology">Technology</a>
            </li>
            <li class="nav-item">
                <a class="nav-link"
href="#entertainment" id="entertainment">Entertainment</a>
            </li>
        </ul>
        <form class="d-flex">
            <input class="form-control me-2"
type="text" id="newsQuery" placeholder="Search news">
            <button class="btn btn-outline-warning"
type="button" id="searchBtn">Search</button>
        </form>
    </div>
</div>
</nav>
</div>

<!-- News -->
<div>

    <div class="row m-3" id="newsType"></div>
    <div class="row me-2 ms-2" id="newsdetails"></div>
</div>

```

```
<!-- footer -->
<div class="mt-5">
  <div>
    <nav class="navbar navbar-expand-lg navbar-dark
      bg-dark
    mt-4">
      <div class="container-fluid m-0 p-0">
        <h5 class="text-white me-auto
      ms-auto">Code<span class="text-warning">Logic</span></h5>
      </div>
    </nav>
  </div>
</div>
</div>
</div>
</div>
```

```
<script src="index.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.b
un dle.min.js"
```

```
integrity="sha384-ka7Sk0Gln4gmtz2MlQnikTlwXqYsOg+OMhuP+IlRH9sENBO0LRn
5q
+8nbTov4+lp"
crossorigin="anonymous"></script>
```

```
</body>
```

```
</htm
```

```
>
```

TEAMID	PNT2022TMID48385
PROJECT	NEWS TRACKER APPLICATION

## SPRINT 3

### INDEX.JS

```
// variables
const generalBtn = document.getElementById("genral");
const businessBtn = document.getElementById("business");
const sportsBtn = document.getElementById("sport");
const entertainmentBtn = document.getElementById("entertainment");
const technologyBtn = document.getElementById("technology");
const searchBtn = document.getElementById("searchBtn");

const newsQuery = document.getElementById("newsQuery");
const newsType = document.getElementById("newsType");
const newsdetails = document.getElementById("newsdetails");

// Array
var newsDataArr = [];

// apis
const API_KEY = "9e9b7d1c2042476586e5d3584b6e7cab";
const HEADLINES_NEWS =
"https://newsapi.org/v2/top-headlines?country=in&apiKey=";
const GENERAL_NEWS =
"https://newsapi.org/v2/top-headlines?country=in&category=general&apiKe
y=";
const BUSINESS_NEWS =
"https://newsapi.org/v2/top-headlines?country=in&category=business&apiK
ey=";
const SPORTS_NEWS =
"https://newsapi.org/v2/top-headlines?country=in&category=sports&apiKey
=";
const ENTERTAINMENT_NEWS =
"https://newsapi.org/v2/top-headlines?country=in&category=entertainment
&apiKey=";
```

```
const TECHNOLOGY_NEWS =
"https://newsapi.org/v2/top-headlines?country=in&category=technology&pa
geSize=8&apiKey=";
const SEARCH_NEWS = "https://newsapi.org/v2/everything?q=";

window.onload = function() {
    newsType.innerHTML=<h4>Headlines</h4>;
    fetchHeadlines();
};

generalBtn.addEventListener("click",function(){
    newsType.innerHTML=<h4>General    news</h4>;
    fetchGeneralNews();
});

businessBtn.addEventListener("click",function(){
    newsType.innerHTML=<h4>Business</h4>;
    fetchBusinessNews();
});

sportsBtn.addEventListener("click",function(){
    newsType.innerHTML=<h4>Sports</h4>;
    fetchSportsNews();
});

entertainmentBtn.addEventListener("click",function(){
    newsType.innerHTML=<h4>Entertainment</h4>;
    fetchEntertainmentNews();
});

technologyBtn.addEventListener("click",function(){
    newsType.innerHTML=<h4>Technology</h4>;
    fetchTechnologyNews();
});

searchBtn.addEventListener("click",function(){
    newsType.innerHTML=<h4>Search : "+newsQuery.value+"</h4>;
    fetchQueryNews();
});

const fetchHeadlines = async () => {
    const response = await fetch(HEADLINES_NEWS+API_KEY);
```

```

newsDataArr = [];
if(response.status >=200 && response.status < 300) {
    const myJson = await response.json(); newsDataArr
    = myJson.articles;
} else {
    // handle errors
    console.log(response.status, response.statusText);
    newsdetails.innerHTML = "<h5>No data found.</h5>"
    return;
}

displayNews();
}

const fetchGeneralNews = async () => {
    const response = await fetch(GENERAL_NEWS+API_KEY);
    newsDataArr = [];
    if(response.status >=200 && response.status < 300) {
        const myJson = await response.json(); newsDataArr
        = myJson.articles;
    } else {
        // handle errors
        console.log(response.status, response.statusText);
        newsdetails.innerHTML = "<h5>No data found.</h5>"
        return;
    }

    displayNews();
}

const fetchBusinessNews = async () => {
    const response = await fetch(BUSINESS_NEWS+API_KEY);
    newsDataArr = [];
    if(response.status >=200 && response.status < 300) {
        const myJson = await response.json(); newsDataArr
        = myJson.articles;
    } else {
        // handle errors
        console.log(response.status, response.statusText);
        newsdetails.innerHTML = "<h5>No data found.</h5>"
        return;
    }
}

```

```

        displayNews();
    }

const fetchEntertainmentNews = async () => {
    const response = await fetch(ENTERTAINMENT_NEWS+API_KEY);
    newsDataArr = [];
    if(response.status >=200 && response.status < 300) {
        const myJson = await response.json();
        console.log(myJson);
        newsDataArr = myJson.articles;
    } else {
        // handle errors
        console.log(response.status, response.statusText);
        newsdetails.innerHTML = "<h5>No data found.</h5>"
        return;
    }

    displayNews();
}

const fetchSportsNews = async () => {
    const response = await fetch(SPORTS_NEWS+API_KEY);
    newsDataArr = [];
    if(response.status >=200 && response.status < 300) {
        const myJson = await response.json(); newsDataArr
        = myJson.articles;
    } else {
        // handle errors
        console.log(response.status, response.statusText);
        newsdetails.innerHTML = "<h5>No data found.</h5>"
        return;
    }

    displayNews();
}

const fetchTechnologyNews = async () => {
    const response = await fetch(TECHNOLOGY_NEWS+API_KEY);
    newsDataArr = [];
    if(response.status >=200 && response.status < 300) {
        const myJson = await response.json(); newsDataArr
        = myJson.articles;
    }

```

```

    } else {
        // handle errors
        console.log(response.status, response.statusText);
        newsdetails.innerHTML = "<h5>No data found.</h5>"
        return;
    }

    displayNews();
}

const fetchQueryNews = async () => {

    if(newsQuery.value == null)
        return;

    const response = await
fetch(SEARCH_NEWS+encodeURIComponent(newsQuery.value)+"&apiKey="+API_KEY);

    newsDataArr = [];
    if(response.status >= 200 && response.status < 300) {
        const myJson = await response.json();
        newsDataArr = myJson.articles;
    } else {
        //error handle
        console.log(response.status, response.statusText);
        newsdetails.innerHTML = "<h5>No data found.</h5>"
        return;
    }

    displayNews();
}

function displayNews() {

    newsdetails.innerHTML = "";

    // if(newsDataArr.length == 0) {
    //     newsdetails.innerHTML = "<h5>No data found.</h5>"
    //     return;
    // }

    newsDataArr.forEach(news => {

```



```
var date = news.publishedAt.split("T");

var col = document.createElement('div');
col.className="col-sm-12 col-md-4 col-lg-3 p-2 card";

var card = document.createElement('div');
card.className = "p-2";

var image = document.createElement('img');
image.setAttribute("height","matchparent");
image.setAttribute("width","100%");
image.src=news.urlToImage;

var cardBody = document.createElement('div');

var newsHeading = document.createElement('h5');
newsHeading.className = "card-title";
newsHeading.innerHTML = news.title;

var dateHeading = document.createElement('h6');
dateHeading.className = "text-primary";
dateHeading.innerHTML = date[0];

var discription = document.createElement('p');
discription.className="text-muted";
discription.innerHTML = news.description;

var link = document.createElement('a');
link.className="btn btn-dark";
link.setAttribute("target", "_blank");
link.href = news.url;
link.innerHTML="Read more";

cardBody.appendChild(newsHeading);
cardBody.appendChild(dateHeading);
cardBody.appendChild(discription);
cardBody.appendChild(link);

card.appendChild(image);
card.appendChild(cardBody);

col.appendChild(card);
```

```
newsdetails.appendChild(col
    );
)
;
```

DATE	19 NOV 2022
TEAM ID	PNT2022TMID48385
PROJECT NAME	NEWS TRACKER APPLICATION
MAXIMUM MARKS	4 MARKS

TEST CASE	FEATURE	COMPONENT	TEST SCENARIO	EXPECTED RESULT	ACTUAL RESULT	STATUS	COMMENTS	BUG	EXECUTED BY
Log In	Functional	login page	verify user can see the log in option	can visible	yes visible	pass	successful	No bug	Keerthika.R
Sign up	Functional	login page	verify user can see the sign up option	can visible	yes visible	pass	successful	No bug	Fahisha firdouse.A
Fetch news	Functional	Home page	verify user can get the news	News will be need to the app	404 error	fail	Unsuccessful	App integration problem	Meenu Sri.D
Types of news available in fetch news page	Functional	Fetch news	Types of news available	Business Sport Technology Entertainment	Mover buttons will be shown	Pass	successful	No bug	Sivarathin am. C

## Acceptance Testing UAT Execution & Report Submission

Date	19 November 2022
Team ID	PNT2022TMID48385
Project Name	Project – NEWS TRACKER
Maximum Marks	4 Marks

### 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

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	9	4	4	2	19
Duplicate	2	0	2	0	4
External	3	2	0	3	8
Fixed	8	2	4	16	30
Not Reproduced	0	0	1	0	1
Skipped	0	0	2	1	3
Won't Fix	0	5	3	2	10
Totals	22	13	16	24	75

### 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	7	0	0	7
Client Application	51	0	3	49
Security	2	0	1	1

Outsource Shipping	3	0	0	3
--------------------	---	---	---	---

Exception Reporting	9	0	2	7
Final Report Output	4	0	1	3
Version Control	2	0	0	2

**Project Development  
Phase Performance  
Testing**

Date	19 November 2022
Team ID	PNT2022TMID48385
Project Name	NEWS TRACKER APPLICATION
Maximum Marks	10 Marks

**Model Performance Testing:**

**NFT – Detailed Test Plan**

S.no	Project Overview	NFT Test approach	Assumptions/Dependencies/Risks	Approvals/Signoff
1	Display sports news, business news, technology news content	Stress	Application Crash/Developer team/ Site Down	Approved
2	Display general news	Load	Server Crash/ Developer team	Approved

**End of Test Report**

NFR-Met	Test Outcome	GO/NO-GO decision	Recommendations	Identified Defects (Detected/Closed/Open)
Performance	CPU - 01	GO	High Performance	Closed
Database Information	Storage	NO-GO	Mysql	Closed

## **10. ADVANTAGES & DISADVANTAGES**

### **Advantages:-**

- ❖ In this app news is already categorized.
- ❖ Easily accessible and portable.
- ❖ Better user experience.
- ❖ Apps help you convert visitors to loyal readers.
- ❖ Minute by minute updates of news.
- ❖ This app helps you to get local news updates instantly.
- ❖ To explore and discover trending news and topics.
- ❖ News feeds for you based on your interest.

### **Disadvantages:-**

- ❖ Some apps demand a premium subscription from users.
- ❖ Occurrence of Advertisement disturb the user.
- ❖ Sometimes the news gives brief information.
- ❖ Prevalence of fake and uncertain news can confuse the user lead to misconception.
- ❖ Fake news may mislead the readers.

## **11. CONCLUSION**

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

## **12.FUTURE SCOPE**

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



**GitHub:**

**IBM-Project-41638-1660643604**

**Project demo link:**

**[https://drive.google.com/file/d/1BQFsyasTN1Ccz6VRob9AS30OOka0Q8\\_H/view?usp=share\\_link](https://drive.google.com/file/d/1BQFsyasTN1Ccz6VRob9AS30OOka0Q8_H/view?usp=share_link)**