

IT - ITes SSC
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NEWS TRACKER APPLICATION

IBM-DOCUMENTATION

UNDER THE GUIDANCE OF

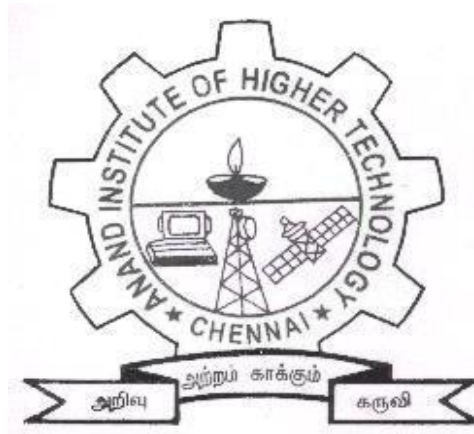
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ANAND INSTITUTE OF HIGHER TECHNOLOGY 2019-2023

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1. INTRODUCTION

1.1 Project Overview

Today people's interaction with their mobile phones is way much more and they are constantly cutting out from the physical carrying things. Hence, it has become vital for the news mobile apps to provide content to the users on the medium they are most comfortable with and is easier to reach.

It is vital for a content distributor to have a source so they can reach more and more users and get benefits and their feedback. And what better platform can be than the internet in today's world to reach potential users to share the content.

As compared to newspaper or magazine, the conversions on the app is much higher as the app allows the users to communicate directly, while it is not possible in physical newspapers.

With the app it gets way easier to reach more and more subscribers, thus increasing the readers to the news or content.

More than any newspaper or the physical magazine, the user attraction is much 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 ideas to the app owners on how to enhance app's likeability.

1.2 Purpose

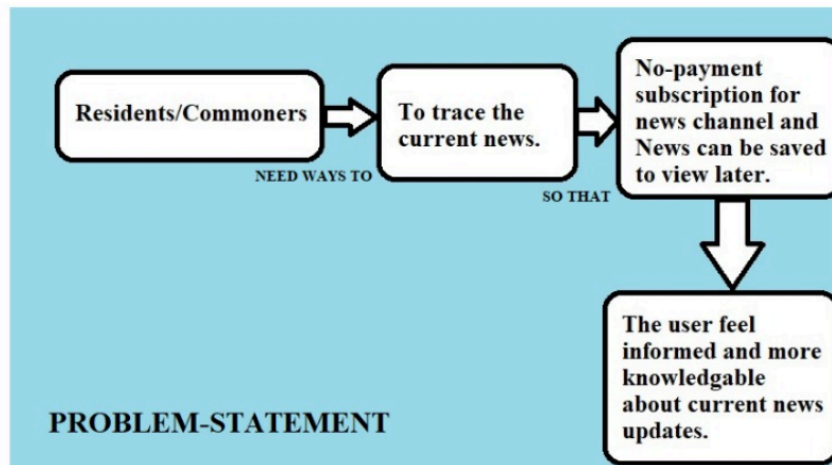
The purpose is to develop a web application, which will eliminate the problems faced in the current scenario. This application will provide all the information and news related to cyber security, E-sport, Science, and Technology or that are in trend at one place. So, it will save time and efforts of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

2.Literature Survey

S.NO	Topic	Author Name	Methodology	Reference
1.	Following the Fed with a News Tracker	Michael William McCracken	The paper is not a technical paper but is essentially a statistical paper on how one should conclude whether the data have come in stronger, weaker or as expected. This is based on the CitiGroup U.S Economic Surprise Index.	https://www.researchgate.net/publication/299870645_Exploring_mobile_news_reading_interactions_for_news_app_personalisation
2.	Exploring mobile news reading interactions for news app personalization	Manos Constantinides, John Dowell, David Johnson, Sylvian Malacria	<ul style="list-style-type: none"> ~Identification of news reader types. ~Interaction logging and classification study. ~Deployment and data collection. ~Predicting News reader types. ~Adaptive UI 	.(PDF) Exploring mobile news reading interactions for news app personalization(researchgate.net)
3.	An improved method for multi-lingual news feed application	Regonda Nagaraju, Mohammed Farhan Pasha, Mohammed Abdul Majeed, Adapa Sujith	<ul style="list-style-type: none"> ~ First a user opens/runs the application using the internet in a browser. ~ Angular is used as a frontend technology for the application. ~ The default country selected is India and the category is health. ~ News API will send data in form of JSON data. 	https://www.ijeat.org/wp-content/uploads/papers/v9i1/A2973109119.pdf
4.	A review and model of journalism in an age of mobile media	Oscar Westlund	The main focus of this application is to connect news articles from all around the world and deliver it to users as fast as possible in the best visualized way.	https://www.tandfonline.com/doi/pdf/10.1080/21670811.2012.740273

2.3 PROBLEM STATEMENT

NEWS TRACKING APPLICATION



3. IDEATION & PROPOSED SOLUTION

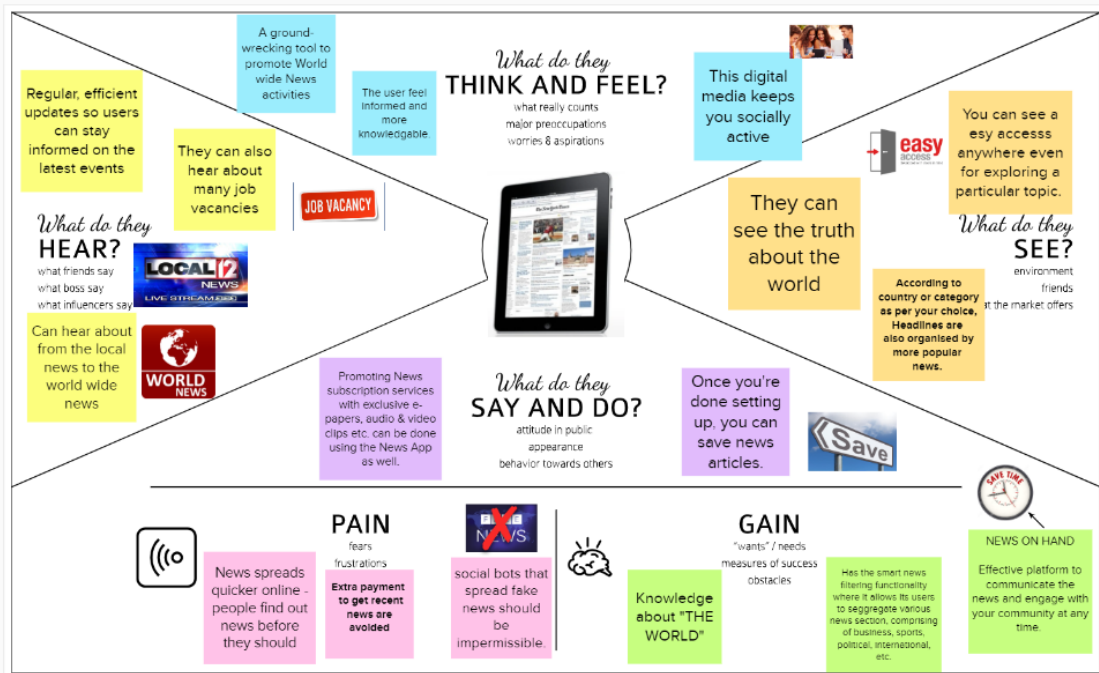
3.1 Empathy Map Canvas

Empathy Map Canvas

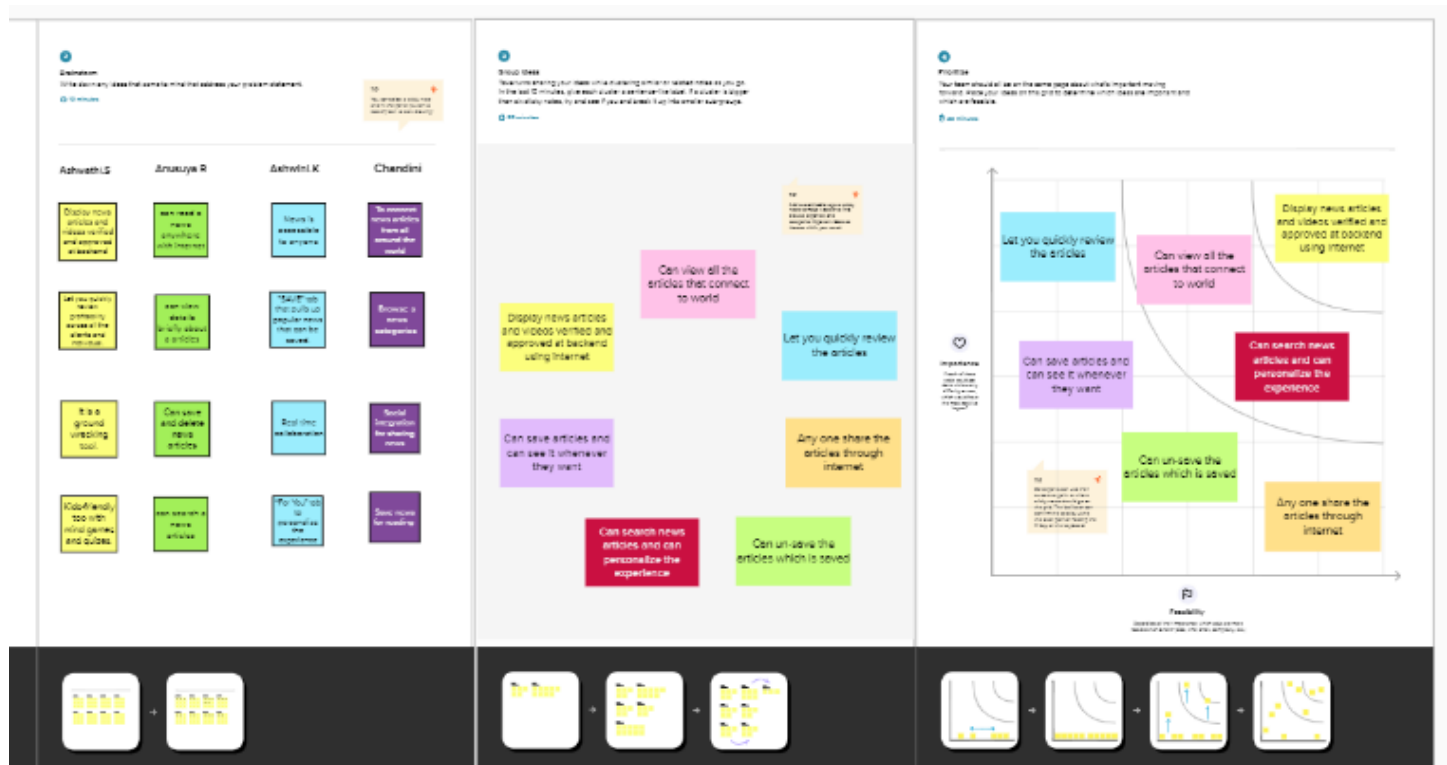
Gain insight and understanding on solving customer problems.

1

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



3.2 Ideation & Brainstorming



3.3 Proposed Solution

Project Design Phase-I Proposed Solution Template

Team ID	BM-Project-15956-1659606347
Project Name	News Tracker Application

PROPOSED SOLUTION:

S NO	PARAMETER	DESCRIPTION
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none">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.
2.	Idea / Solution description	<ul style="list-style-type: none">One app not accommodating both the local and world news might create a requirement for different apps.The titles are very catchy, but the content is not very relevant.Young people don't read news from apps, usually depend on social media only.Users don't want to spend time reading the entire content. They need short and crisp news.
3.	Novelty / Uniqueness	<ul style="list-style-type: none">"Thunder headlines" where they get a custom feed of a quick 2 min overview of the news based on their interests and preferences.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none">Assuming that different age groups would have different interests, apps can collate content concerning different age groups or especially have age-identified sections for the younger audience who might not be interested in politics, business.The news apps are introducing a reel-like display of news, so they can give a social media-like experience to the users. This could attract young adults who are mostly using common social media apps.

		<ul style="list-style-type: none"> Based on our assumptions, we think users might be getting more annoyed by the constant ads while reading the news. We are yet to find more info for solving this.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> Nowadays, news apps are spamming notifications with a lot of irrelevant news. News apps are providing the TOP STORIES section to help the users to know about the top news. The news apps have started to give different news from different newspapers and news channels. News apps have started to show more Ads on their content to generate revenue.
6.	Scalability of the Solution	<ul style="list-style-type: none"> The solution is highly scalable as we use android application. Many users complained of a complex UI and complicated categorization, which made it difficult to find what they were looking for. Some users prefer discussions or interactions about the news they read with others or on the app itself.

3.4 Problem Solution fit

Project Title:NEWS TRACKER APPLICATION

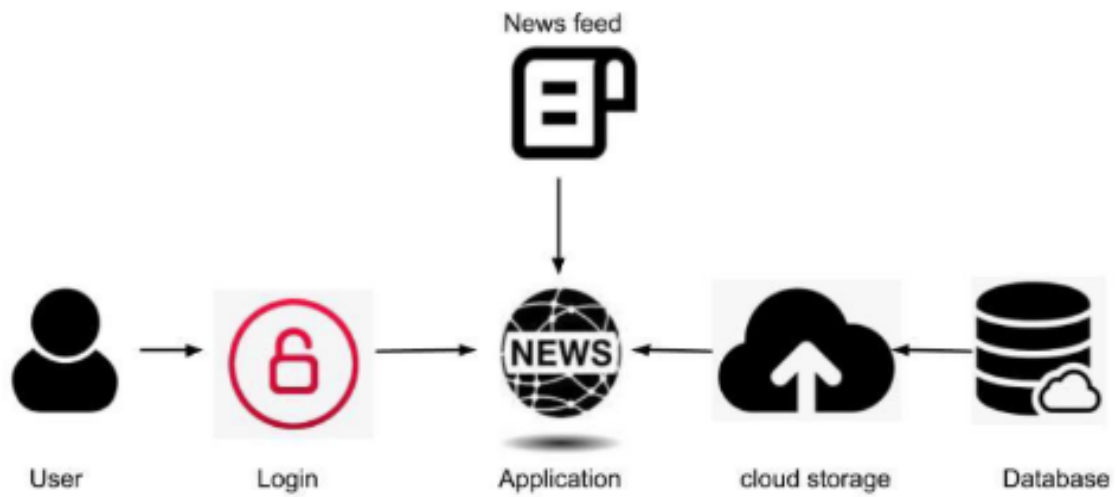
Project Design Phase-I - Soluon Fit Template

Team ID : PNT2022TMID37100

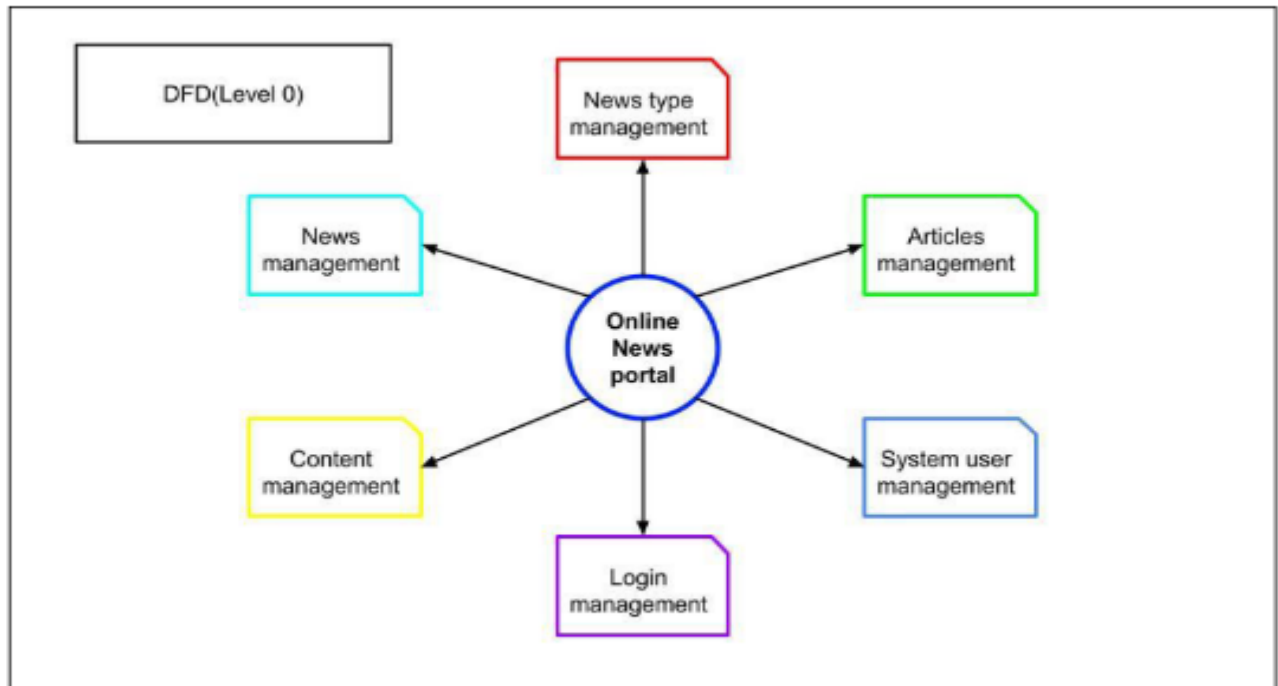
Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS All customer who can read	6. CUSTOMER CONSTRAINTS CC Customers ca access the application through PCs, Laptop, Mobile.	5. AVAILABLE SOLUTIONS AS Instead of carrying news paper we can read it through our Mobile itself	Explore AS, differentiate
	2. JOBS-TO-BE-DONE / PROBLEMS J&P They have to log in to read the articles	9. PROBLEM ROOT CAUSE RC Data's are the one which rules the world now a days. we can read the world's data through Mobile.	7. BEHAVIOUR BE This application behaves like information provider.	
Focus on J&P, tap into BE, understand RC				Focus on J&P, tap into BE, understand RC
Identify strong TR & EM	3. TRIGGERS TR Different categories can attract people	10. YOUR SOLUTION SL More than any newspaper or the physical magazine, the user attraction is much 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	8.CHANNELS of BEHAVIOUR CH Online: We can search any article through internet. Offline: We can see the articles which we saved.	Identify strong TR & EM
	4. EMOTIONS: BEFORE / AFTER EM In our application helps to provide the updated information.			

4. PROJECT DESIGN

4.1 Data Flow Diagrams

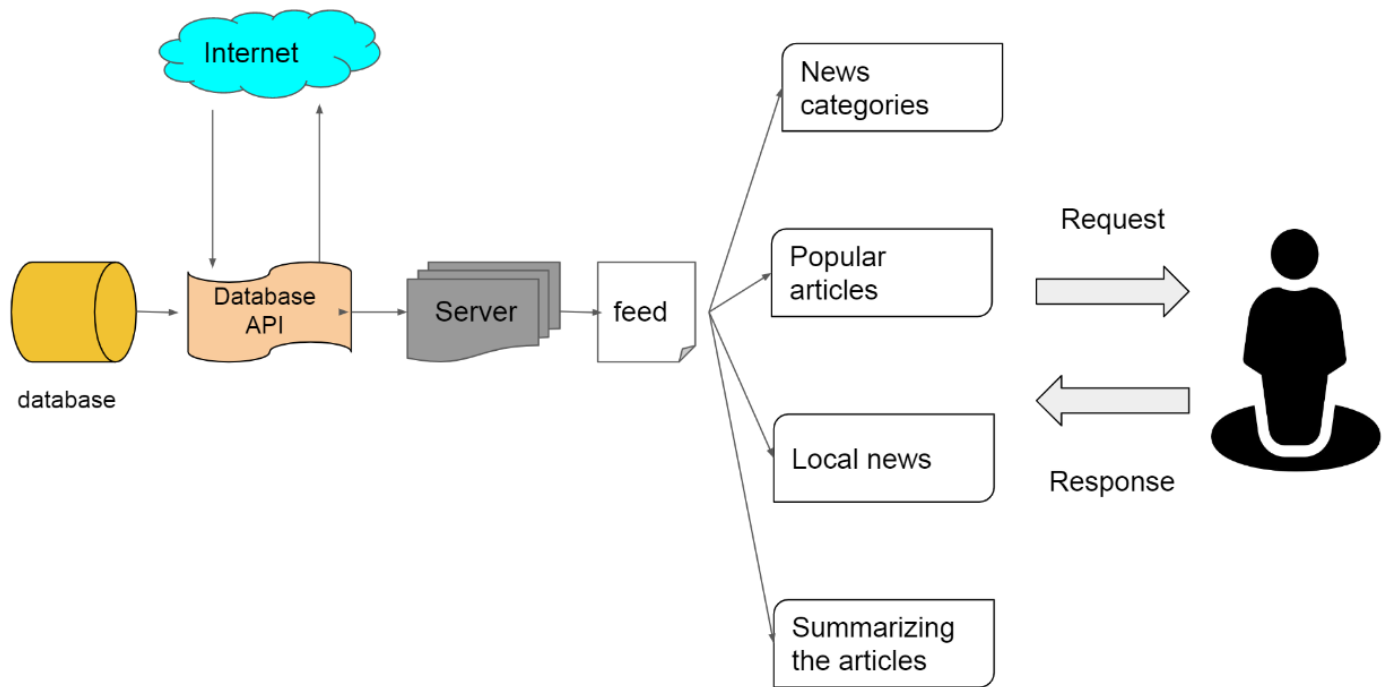


Example: DFD Level 0 (Industry Standard)



4.2 Solution & Technical Architecture

Solution Architecture:



5. Project Planning & Scheduling

TITLE	DESCRIPTION	PROCESS
Literature Survey & Information Gathering	Literature survey on the selected project & gathering information by referring the, technical papers, research publications etc.	Completed
Prepare Empathy Map	Prepare Empathy Map Canvas to capture the user Pains & Gains, Prepare list of problem statements	Completed
Ideation	List the by organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility & importance.	Completed
Proposed Solution	Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc.	Completed
Problem Solution Fit	Prepare problem - solution fit document.	Completed
Solution Architecture	Prepare solution architecture document.	Completed
Customer Journey	Prepare the customer journey maps to understand the user interactions & experiences with the application (entry to exit).	Completed

Functional Requirement	Prepare the functional requirement document.	Completed
Technology Architecture	Prepare the technology architecture diagram.	Completed
Data Flow Diagrams	Draw the data flow diagrams and submit for review.	Completed
Prepare Milestone & Activity List	Prepare the milestones & activity list of the project.	Completed
Project Development - Delivery of Sprint-1, 2, 3 & 4	Develop & submit the developed code by testing it.	Completed

5.2 Sprint Delivery Schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority
Sprint-1	Registration	USN-1	user can register for the application by entering my email, password, and confirming my password.	10	High
Sprint-1		USN-2	User will receive confirmation email once I have registered for the application	10	High
Sprint-1	Login	USN-3	User can log into the application by entering email & password.	15	High
Sprint-2	Input Necessary Details	USN-4	This shows the news topic according to users' prescription	15	High
Sprint-2	Data Pre-processing	USN-5	User can read news briefly	15	High
Sprint-3	Searching of news	USN-6	User can search for the accurate news what they want	20	High
Sprint-3		USN-7	User can get accurate news in the application	5	Medium

Sprint-4	Saved news and downloaded news	USN-8	User can save news by finding their interest User can download news to view in offline	20	High
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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	27 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	12 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)

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

6. Results

6.1 PERFORMANCE MATRICES

MVVMNewsApp

covid

**Cue Health Cue Reader Review: Accurate and Expensive Covid-19 Test Kit**

Wired

2022-11-14T15:00:00Z

This at-home diagnostic Covid-19 test kit is ridiculously expensive, but it's accurate and dead simple to use.

**Where Did Omicron Come From? Maybe Its First Host Was Mice**

Wired

2022-10-27T11:00:00Z

The Covid virus can infect many animal species. The variant that tore through human populations last winter may have previously circulated in rodents.

**The Pandemic Bike Boom Survives—in Cities That Stepped Up**

Wired

2022-11-14T13:00:00Z

Covid lockdowns prompted a surge of new cyclists. But the trend has faltered in places that didn't build bike-friendly infrastructure.

**China Covid: Millions back in lockdown as Beijing doubles down on zero-Covid**

Breaking News



Saved News



Search News



MVVMNewsApp



CNN

2022-11-18T15:57:00Z

Hakeem Jeffries launches bid to be Nancy Pelosi's successor - CNN

House Democrats appear likely to choose New York Rep. Hakeem Jeffries to succeed Speaker Nancy Pelosi, a potentially historic move to elec...



Rolling Stone

2022-11-18T15:01:22Z

Bruce Springsteen Breaks Down His R&B Covers LP — and Responds to Fan Outrag...

"I know it was unpopular with some fans," Springsteen says of his ticket prices. "But if there's any complaints on the way out, you can have your money back"

Successfully deleted article

UNDO



MVVMNewsApp

**Hakeem Jeffries launches bid to be Nancy Pelosi's successor - CNN**

CNN

2022-11-18T15:57:00Z

House Democrats appear likely to choose New York Rep. Hakeem Jeffries to succeed Speaker Nancy Pelosi, a potentially historic move to elec...

**Bruce Springsteen Breaks Down His R&B Covers LP — and Responds to Fan Outrag...**

Rolling Stone

2022-11-18T15:01:22Z

"I know it was unpopular with some fans," Springsteen says of his ticket prices. "But if there's any complaints on the way out, you can have your money back"

**Nest Doorbell wired review: Hello again**

The Verge

2022-10-18T14:00:00Z

Slimmer, sleeker, and with better video quality



Breaking News



Saved News



Search News



MVVMNewsApp



The Washington Post
2022-11-19T14:31:58Z

North Korea leader Kim Jong Un's daughter makes first public appearance - The Was...

Kim Jong Un's young daughter made her first public appearance, following years of speculation about her existence. Observers believe her name is Kim Ju Ae.



CNN
2022-11-19T13:45:00Z

DOJ announces special counsel for Trump-related Mar-a-Lago and January 6 cr...

The investigations will move "expeditiously," special counsel Jack Smith said



Independent
2022-11-19T13:42:17Z

Elizabeth Holmes verdict live: Theranos founder to face restitution hearing after ...

Theranos sentencing – latest news



CBS Sports
2022-11-19T13:10:00Z

College football schedule, games 2022: What to watch in Week 12, TV channels, Sat...

A look at the top games to watch on Saturday as the Week 12 action in college football takes center stage



Breaking News



Saved News



Search News



7.CONCLUSION

The developed algorithm personalizes news feeds saves the user time and gives him only interesting articles, news etc. By single click.

8. GitHub & Project Demo Link

GitHub :

[IBM-EPBL/IBM-Project-15956-1659606347: News Tracker Application \(github.com\)](https://github.com/IBM-EPBL/IBM-Project-15956-1659606347-News-Tracker-Application)

Project Demo Link

https://drive.google.com/file/d/1-LBo_xifHjWCXWK5j8C6ytmsiS8w7Shp/view?usp=sharing