PROJECT REPORT

PROJECT NAME: NEWS TRACKER APPLICATION Team ID: PNT2022TMID31792

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1. INTRODUCTION

a. Project Overview

NewsTracker is a fullstack web application which allows users to register along with their favourite topics, upon login the app displays the news based on the user's interest.

The news displayed in the app is based on the Newcatcher API and Cricbuzz API from Rapid API site. A news-sharing app wants to help users find relevant and important news easily every day and also provide explicitly news from that users locality/region which may of help to the user.

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.

b. Purpose

Enabling users to view news from anywhere at anytime. It also helps to reduce the time to get information about a specific topic. Also enables a person to get an updated newswhich may help Business people to make business related decisions quickly and correctly.

2. LITERATURE SURVEY

a. Existing problem

Physical newspapers are old fashioned in this digitalera. They cost money to buy, can easily be damaged, limited amount of information, not flexible to modifications, poor quality. Sometimes may show unrelevant and updated news.

b. References

S.	Paper title	Author	Publish	Implementation	Resource link
n o			eddate		
1	Followi ngthe Fed with aNews Tracker	Michael WilliamMcCrack en	Januar y,2012	The paper is not a technical paper but is essentially a statistical paper on how should one conclude whetherthe data havecomein stronger, weaker or as expected. Thisis basedon the CitiGroup U.S Economic Surprise Index.	Following the Fed with a News Tracker (researchga te.net)
2	Topic Detection and Tracking in News Articles	Sagar Patel, Sanket Suthar,Sandip Patel, Neha Patel	Marc h, 2015	 Pre-processing Tokenization Stemming/Lem mization Vector Space Model Topic tracking 	(PDF) Topic Detection and Tracking inNews Articles (researchga te.net)

3	An End-to- end Weakly- supervised News Aggregati on Framewo rk	Xijin Tang, Xiaohui Huang	Jun e, 20 22	The framework combinesSnorkel based weakly Supervised classification,Latent Dirichlet Allocation(LDA) topic modeling, andtopic signaldetection modelto classify and aggregate unlabeled news texts and ultimately generate visualizedresults containing news categories, news topics, andtemporal topic relationships. This paper uses constructed knowledge thesaurus and theSnorkel method to weakly supervise the classification of unlabeled news with nomanual tagging. Subsequently, we utilize LDAto generate the topics and	End-to-end Weakly-supe rvised News Aggregation Framework Request PDF (researchga te.net)
				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.	

4	Exploring mobile news reading interactions for news app personalisati on	Marios Constantinides ,John Dowell , David Johson, Sylvain Malacria	Augus t,2015	 Identificati on of newsread er types Interaction logging andclassific ation study Deployme nt and datacollec tion Predicting News readertypes Adaptive UI 	(PDF) Exploring mobile news reading interactions for newsapp personalisa tion (researchga te.net)
5	Innovative Application For NewsTrack er	Dr.C.K.Gomathy, Dr.V.Geetha, Peddireddy Abhiram, MariosConstantin ides	Septem ber, 2020	This paper aimed atdeveloping an online newsmanagement system that isof information to either a college. Online newsmanagement systemprovides a simpleinterfacefor maintenance of college information. The creationmanagement ofaccurate,up-to-date information regarding tocollege.The mainobjectivefor developing this project isprovide allthe functionalityrelated to latest news and it tracks.	(PDF) The Innovative Application for News Management System (researchga te.net)

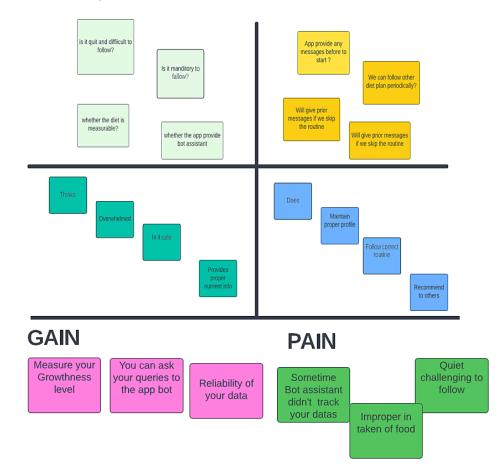
b. Problem Statement Definition

Newspapercontains limited, non user/reader specific, Location specificnews

. There are multiple news-sharing apps available which can be used by a single user and are often spammed with notifications. There is also a lot of unwanted news which gets shared. So it may take a lot of time for the user tofind the news he/she likes. A news-sharing app wants to help users find relevant and important news easily every day and also provide explicitly news from that userslocality/region which may of help to the user.

3. IDEATION & PROPOSED SOLUTION

a. Empathy map canvas

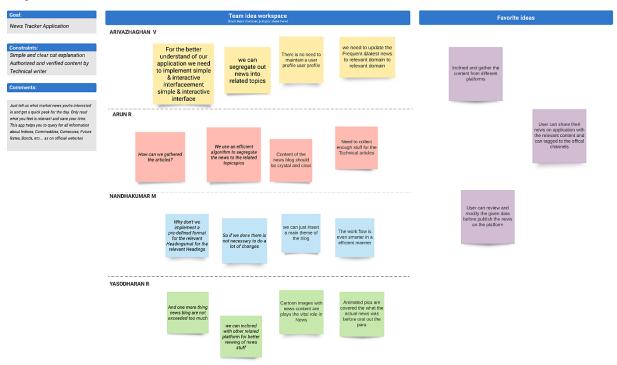


Empathy Map Canvas

b. Ideation & Brainstorming

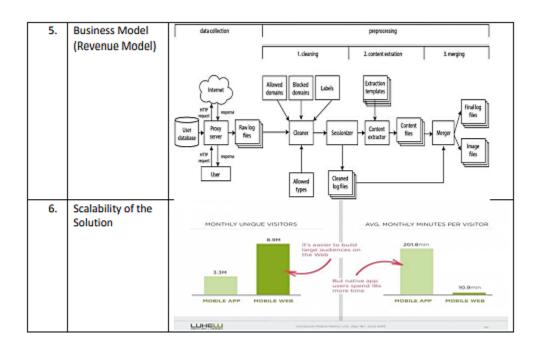
Brainstorming provides a free and open environment that encourages everyone within ateam to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helpingeach other developa rich amount of creativesolutions.

Team Gathering, Collaboration and Select the Problem Statement and Brainstorm Empathize.



C. Proposed Solution

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	In This modern world we cannot have enough time to read the newspaper.
2.	Idea / Solution description	Here we will use python and to store data in cloud which is used to make news tracking application to show news based on their location.
3.	Novelty / Uniqueness	And Also we have extra features that set to display trending News section.
4.	Social Impact / Customer Satisfaction	It is an old saying "first impression is the last impression". So the developer should make sure that the application should leave a mark on the users. This is where you need to focus on bringing interactive, visual and architectural designs as well. It means that the content should be distributed in the app such that the screen do not appear crowded with the content. Filter content The option of filtering the content based on different category should be incorporated in the app to provide the audience wide taste and sensibilities. Sothe users can read news that matters to them.



d. Problem Solution fit

1. CUSTOMER SEGMENT(S)

Nowdays ,people are busy in the life have so many works In between times they do not have time to read the newspaper.

6. CUSTOMER CONSTRAINTS

Customer mainly to if use the application is they need networks connections, GPS for to feed the news based on their locations.

5. AVAILABLE SOLUTIONS

S. AVALABLE SOLUTIONS
In this news tracker application to feed the most of all news on global covered and read whenever have time and also search the particular news.

Explore AS,

BE

2. JOBS-TO-BE-DONE / PROBLEMS

We are addressing that read the news in this century percentage is down so we are develop an application to read the news based on their location and trending location and also have features to user can search particular news in search engine.

9. PROBLEM ROOT CAUSE

J&P

* In this era customer or people do not have time to sit and relaxly to read the news and the main reason is time management.



To search the news only customer can not do anything beyond the news searching.



CH

3. TRIGGERS

We have enough features to reach the application.it is daily use application so we handle it safe & secure.

10. YOUR SOLUTION

Here we provide the easily get their daily news on easily in less time and also have feature to search the news on search engine and also have feed the news based on their location.

8. CHANNELS of BEHAVIOUR

8.1 ONLINE

Customer can see the recent feed news. 8.2 OFFLINE

See the last seen news .

4. EMOTIONS: BEFORE / AFTER

TR

Before: people use the application reading listening the application percentage is low and people don't have social awareness ,global acitivity politics.

After: then if they use this application have many features to interact the people and engage people daily updates and it is easily use on their free time.

4. REQUIREMENT ANALYSIS

a. Functional requirement

FR No.	Functional Requirement	Sub Requirement (Story / Sub-Task)	
	(Epic)		
FR-1	User Registration	Registration through Email	
FR-2	User Confirmation	Confirmation via Emailusing Sendgrid	
FR-3	User Preffered Topics	Collecting user's favourite topics	
FR-4	Collecting News	Collecting newsfrom rapid APIat regular Intervals	
FR-5	Bookmark	Bookmarking Favourite news for the user	
FR-6	Login	Loging in the userusing the registered email and	
		password	
FR-7	News Feed	Showing the newsfetched from the API to the user	

b. Non-Functional requirements

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The app should be able to used by all people
NFR-2	Security	The app shouldauthenticate the legitimate users and should restrict bot attacks
NFR-3	Reliability	The app shouldshow the newswhich are non fake and spam free
NFR-4	Performance	The app should be accessible in older devices too
NFR-5	Availability	The app should be available to all devices
NFR-6	Scalability	The appshould handle multiple users and be designed in such a way forfuture upgrade

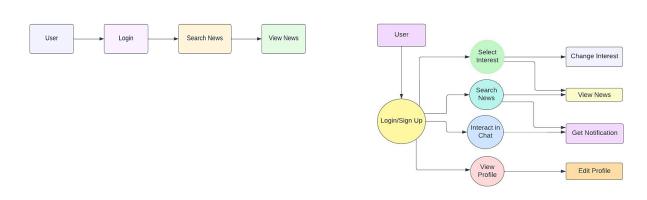
5. PROJECT DESIGN

a. Data Flow Diagrams

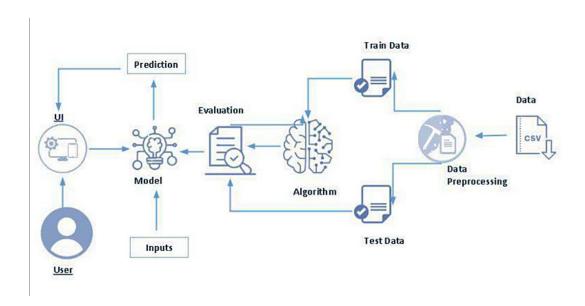
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data entersand leaves the system, what changes the information, and where data is stored.

FlowChart

DFD-NewsTrackingApplication



b. Solution& Technical Architecture



C.User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
NormalUs er	Registration	USN-1	As a user, I can register for theapplication by entering my email, password, and confirming mypassword.	I canaccess my account / dashboard	High	Sprint-1
	Login	USN-4	As a user, I can login with theemail and password into the app	I can access to all thenews	High	Sprint-1
	Dashboard	USN-5	As a user, I can see all the news under specific tab	I can view all the news	Medium	Sprint-3
	Home	USN-6	As auser, I can bookmark myfavourite news topics	I can later view my bookmarked news	Low	Sprint-2
	Access	USN-7	As a user, I can access the site anywhere and everywhere	I can view the site bytyping the URLof the site	High	Sprint-4

6. PROJECT PLANNING & SCHEDULING

a. **Sprint Planning & Estimation**

Spri nt	Functional Requirem ent (Epic)	User StoryNumb er	UserStory <i>l</i> Task	Story Poin ts	Priori ty	Team Members
Sprint- 1	Registeration	USN-1	As a user,I can register for the application by entering my email, password, and confirming my password.	10	High	Arun.R, Arivazhagan.V, Nandhakuma.M, Yasodharan R
Sprint- 1	Login	USN-2	As a user, I will receive confirmation emailonce I have registered for the application	5	High	Arun.R, Arivazhagan.V, Nandhakuma.M, Yasodharan R
Sprint- 1	Database connectivity	USN-3	As a user I can verifymy email usingthe link senttomy mailid	5	High	Arun.R, Arivazhagan.V, Nandhakuma.M, Yasodharan R
Sprint- 2	API Fetch	USN-4	Fetch Newsfrom Rapid API at regularinterv al	10	High	Arun.R, Arivazhagan.V, Nandhakuma.M, Yasodharan R
Sprint- 2	NEWS Tracker UI	USN-5	UI for news application	10	Medi um	Arun.R, Arivazhagan.V, Nandhakuma.M, Yasodharan R

Sprint- 3	UI for news page	USN-6	Creating news page and fetch the news details from api	2	Medi um	Arun.R, Arivazhagan.V, Nandhakuma.M, Yasodharan R
Sprint- 4	API news for different category	USN-7	dashboard page for Show a different category of news	10	High	Arun.R, Arivazhagan.V, Nandhakuma.M, Yasodharan R

b. Sprint Delivery Schedule

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Release Date
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

Title	Description	Date
Literature Survey andInformationGathe ring	GatheringInformationbyrefer ringthetechnicalpapers, research publicationsetc	2SEPTEMBER2022
PrepareEmpathyMap	TocaptureuserpainandgainsP repareListofProblem Statement	10SEPTEMBER2022
Ideation	Prioritiseatop3ideasbased onfeasibilityandImportance	17SEPTEMBER2022
ProposedSolution	Solutionincludenovelty,feasi bility,businessmodel,socialim pactandscalability of solution	24SEPTEMBER2022
ProblemSolutionFit	Solutionfitdocument	29SEPTEMBER2022
SolutionArchitecture	SolutionArchitecture	1October2022
CustomerJourney	To Understand UserInteractionsande xperiences with application	8October2022
FunctionalRequirement	Prepare functional Requirement	14October2022
DataflowDiagrams	Dataflowdiagram	15October2022
TechnologyArchitecture	Technology Architecture diagram	16October2022
Milestone&sprintdeliveryplan	Activity what we done &furtherplans	21October2022
ProjectDevelopmentDeliveryof sprint1,2,3 & 4	Develop and submit the developedcodeby testingit	24October 2022– 19 November 2022

7. DATABASE CODING & SOLUTIONS

a.DATABASE SCHEMA TABLE:

USERNAME	PASSWORD	
arivu	asrivu123	
arun	arun123	
keerthi	keerthi123	
ragu	ragu12	
ragu	ragu12	

8. ADVANTAGES & DISADVANTAGES

- 1. This app can be accessed anywhereand anytime, So that the user can view the news
- 2. Its ad free
- 3. The news is only based on the API
- 4. It may contain some unwanted contentbut we don't have controlover it
- 5. The user can bookmarktheir favourite news.

9. CONCLUSION

Thus we have developed a full stack application based on the plans and within the given time. We have tested the application in both desktop and mobile and it worked well, Overall it was a great experience.

10. FUTURE SCOPE

In future we may integrate our own news API instead of third party APIs and may develop a mobile nativeapplication so that it can be used in both android and ios.

11. APPENDIX

- 1. Source Code (Github)
- 2. Live Page URL
- 3. Video Demo Link