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) |

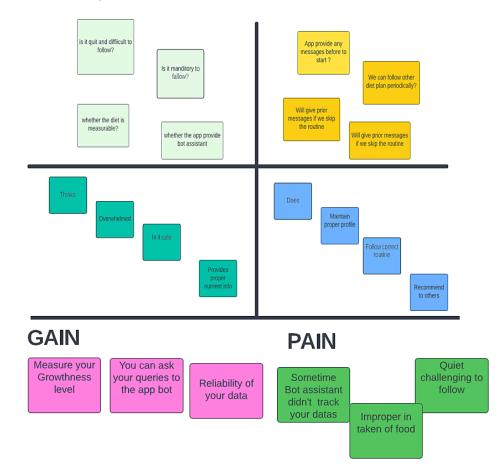
b. Problem Statement Definition

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

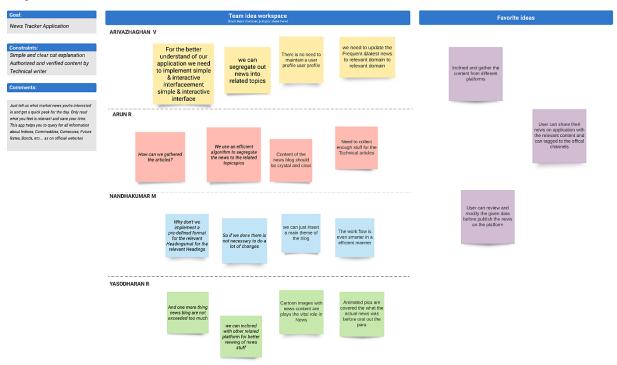


Empathy Map Canvas

b. Ideation & Brainstorming

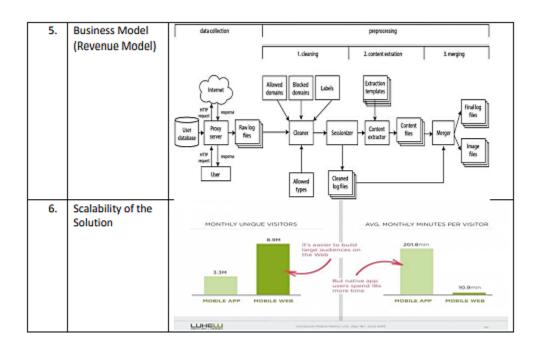
Brainstorming provides a free and open environment that encourages everyone within ateam to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate,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



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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 |

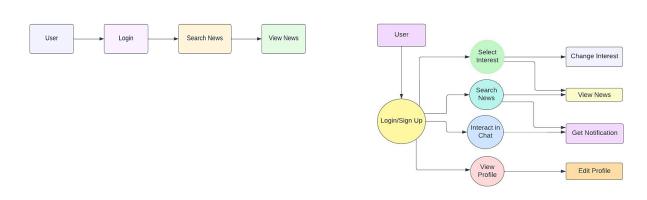
5. PROJECT DESIGN

a. Data Flow Diagrams

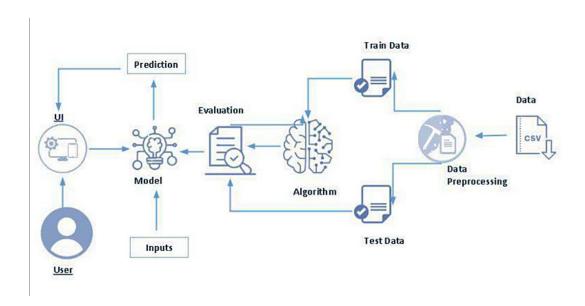
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data entersand leaves the system, what changes the information, and where data is stored.

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 this application we integerated the specific news api that so helpful to track the news easily

There we add a dashboard for show a category for different titles and its directly connected to the news site, and we also add a description about each linkcase.

Each category have the description and details of organisation, So user can decide the site what they want and also which its based on the category.

11. APPENDIX

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