

NEWS TRACKER APPLICATION

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A REPORT

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1. INTRODUCTION:

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.

1.1 project Overview:

NewsTracker is an application designed to enhance and optimize the way a user interacts with news stories. This is achieved primarily using a search engine that connects to [NewsAPI](#) which allows the user to narrow-down the content of their results. Additional search parameters such as [Polarity](#) and [Subjectivity](#) use Natural Language

Processing through Python's [NLTK](#) and [Textblob](#) libraries to parse through the html data given by the URL returned by NewsAPI, which will order a user's search results by the degree to which an article is objective or positive, with the corresponding score listed for each article.

1.2 Purpose:

With [News tracking](#) , you get insights into the performance of your business. News or media coverage, whether online or traditional, gets your message to a wider range of audiences and promotes brand awareness of your business. Being featured at an independent media like News gives credibility to the information. And by tracking what kind of credibility you have formed, you can work to bring the credibility you wish to build. Maintaining positive news increases positive credibility. News mention is more powerful than an advertisement. Managing brand image by media tracking is an essential part of a successful business.

2. LITERATURE SURVEY

As world's technology is rapidly growing we have fast connection and network to instantly connect to other person. Day to day use in mobile, tablets and laptop is increasing, most of the people already have these facilities. The main focus of this application is to connect news articles from all around. Native Publishers like BBC News or NY Times use their own writers to manage articles and manage it. Many native newspapers are of this which causes a lack of resources from one side. Location feature with automation can be implemented which means as user move from one city to other local news will change as per it. Android phones are now become handy to many and much people with the advance of electronics and communication technology. They are getting wide acceptability because of their utilized cordial applications. This paper deals with such an android application made for academic avail of students, and teachers and staffs of the educational institution. Alert Notification as a Service (ANS). The Traditional approach takes much time for services. In the earlier systems for example in railway station and bus stands

everything is displayed using electronic notice board. . But to change those messages they have to go there and made changes.

2.1 Existing Problem:

There have been work in this field which either concentrates an online website run using the browser. There have been applications which focus on android apps. But this system focuses on both Android users as well as non-android users. This application mainly for our college to resolve the issues regarding missing out an important means and updates the website and does not give alert for important messages. This becomes a time-consuming process to open and check notification. This system checks all this. In the survey we found that there are E-Notice boards but they have many drawbacks such as user need to visit their site again and again to see notices, no notification is provided and it has no alarm system.

2.2 References:

- [1] Namrata N. Shahade, Priya A. Kawade, Satish L. Thombare, Student Attendance Tracker System in Android, IJFEAT International Journal for Engineering Applications and Technology, ISSN: 2321-8134.
- [2] Guler, E., Virtualized lab infrastructure on a budget for Various computing and engineering courses, in IEEE Conference on Information Technology Based Higher Education and Training (ITHET), 21-23June, 2012
- [3] Aylward, R.C., Engaging the student: Programming solving Real-life problems, in IEEE conference on AFR ICON, 9-12 Sept 2013, Pointer- Aux-Piments.
- [4] Munihanumaiah, P. , Design and development of network-based consumer applications on Android, in IEEE conference.
- [5] Danny Goodman with Michael Morrison, Java Script Bible, 5th ed., Wiley Publishing Inc., Indian

2.2 Problem Statement :

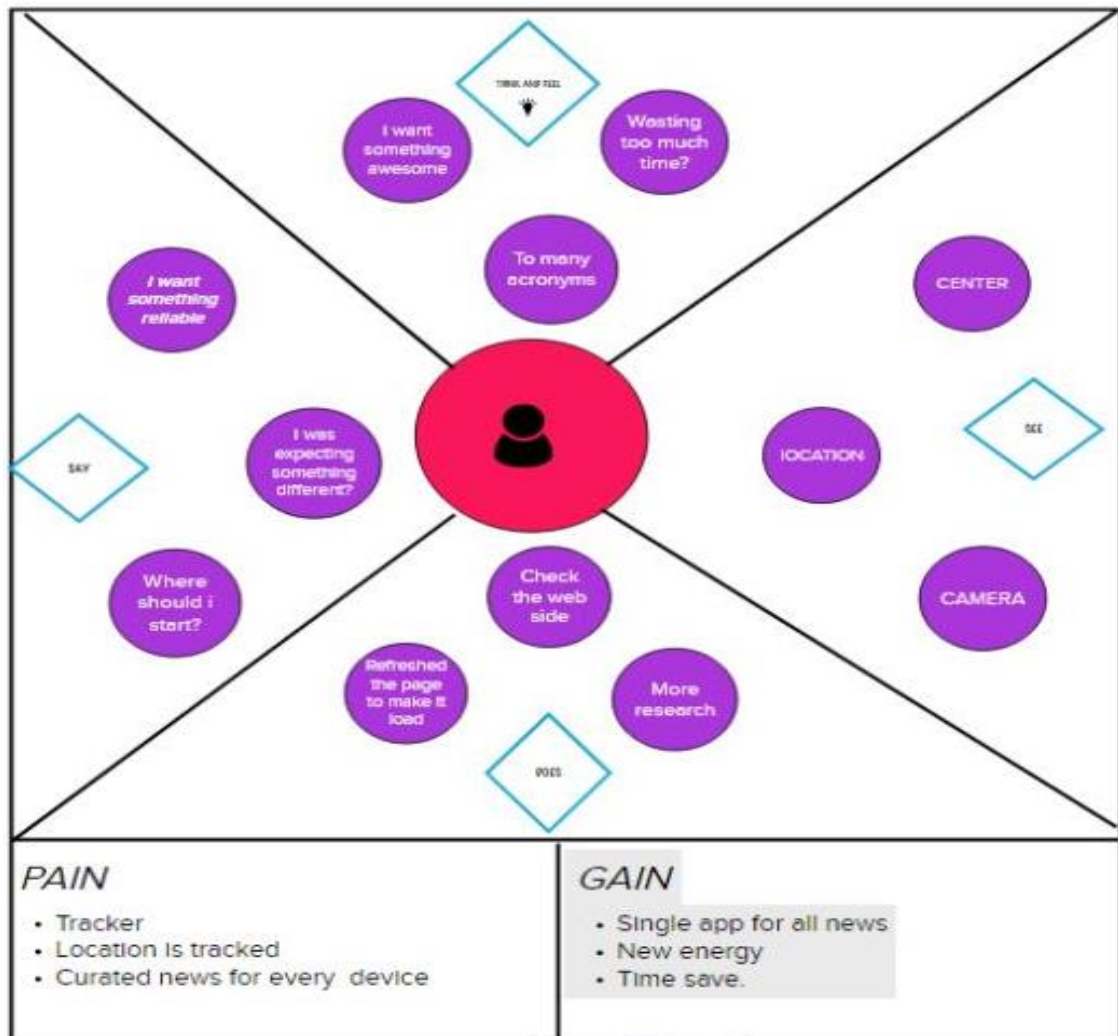
User is a busy business man who needs to read news on the go without any hassles while travelling because he considers carrying around a physical newspaper a nuisance to him and the people around him. User needs to read news in such a way that he doesn't have to worry about ever buying physical newspapers or carrying with him everywhere. Something which should fit in the palm of his hands, which he could carry everywhere, access from everywhere, something digital such as an Application hosted on the internet which could be accessed from any device that is connected to the Internet. Such as smartphones and computers.

3 .IDEATION & PROPOSED SOLUTION:

Ideation, the third stage of Design thinking, is the most vital part. It is where your ideas get bloomed into a new shape, which impacts on your product design. With a perfect product idea, you are set to disrupt the entire market. You get more creative bones energised with the brainstorming process. What would be the best strategy to brainstorm? You need to be aware of the basic rules to create an effective, stable and meaningful process. You have a number of processes that can inspire you to be creative. Creativity is a boon that you need to utilize properly.



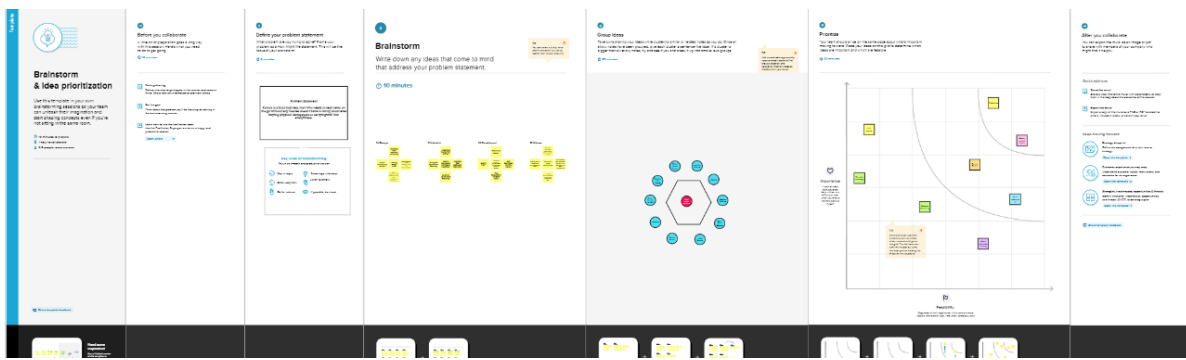
3.1 Empathy Map Canvas:



An empathy map is a simple, easy-to-digest visual that captures knowledge about a user's behaviours and attitudes. It is a useful tool to help teams better understand their users. Creating an effective solution requires understanding the true problem and the person who is experiencing it. The exercise

of creating the map helps participants consider things from the user's perspective along with his or her goals and challenges.

3.2 Ideation and Brainstorming:



Brainstorming provides a free and open environment that encourages everyone within a team 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, helping each other develop a rich amount of creative solutions. 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.

3.3 Proposed solution:

1	Problem Statement (Problem to be solved)	<ul style="list-style-type: none"> There are multiple newsssharing apps used by a single user and are often spammed with notifications. There is also a lot of fake news which gets shared.
2	Idea / Solution description	<ul style="list-style-type: none"> News is a trustworthy site. lots of explanation. Minutes New.

3.4 Proposed solution fit

Define Cs, Fit into CC	1)CUSTOMER SEGMENT(S) All user	6)CUSTOMER CONSTRAINTS Understand each constraint clearly	5)AVAILABLE SOLUTIONS Quarantitative data,qualitatie information and news	Expl ore AS, D i f f e r e n t
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Focus on j&p tap into BE, Understand RC	2)JOB-TO-BE-DONE/PROBLEMS	9)PROBLEM ROOT CAUSE	7) BEHAVIOUR	Focus on j&p, tap into BE, Understand RC
	Too many notifications irritate the users and it clutters the bar on their phone	An iterative interrogative technique used to explore the cause and effect relationships Underlying a particular problem	Customer behavior models help you understand your unique customer base and more effectively attract,engage and retain them.	

Identify Strong TR & EM	3)TRIGGERS	10)YOUR SOLUTION	8)CHANNELS OF BEHAVIOURS	Identify Strong TR & EM
	Change in the marketing channel.		ONLINE: Online behavioral tracking is a product of technologies built in to web pages OFFLINE: A channel that dose not use the internet	
	4)EMOTIONS BEFORE/AFTER			
	Sensory branding,empowerment	Here are some practical benefits that you can get frome real-time news tracking		

4 REQUIREMENT ANALYSIS:

Requirement analysis — a very well studied area of software engineering — is the process of determining user expectations for a product, or briefly defining the product scope. There are tons of available resources on requirements analysis methodologies, characteristics of good requirements and

tracing requirements. Instead of repeating the literature, we are going to summarize the critical points in a startup thinking way.

4.1 Functional Requirement:

1	Interoperability	User pairs a Bluetooth enabled Android-based Smartphone to QNX based infotainment system
2	Security	Cyber security based services in the ADAS surroundview that uses controller Area Network
3	Compliance	Can be that of Apple car play in car infotainment system

4.2 Non Functional Requirements:

1	Reliability	App behaviour in case of alarm status
2	Usability	That allow users to seamlessly interact with the product
3	Security	Private data processing, and external attack risk reduction

5. PROJECT DESIGN:

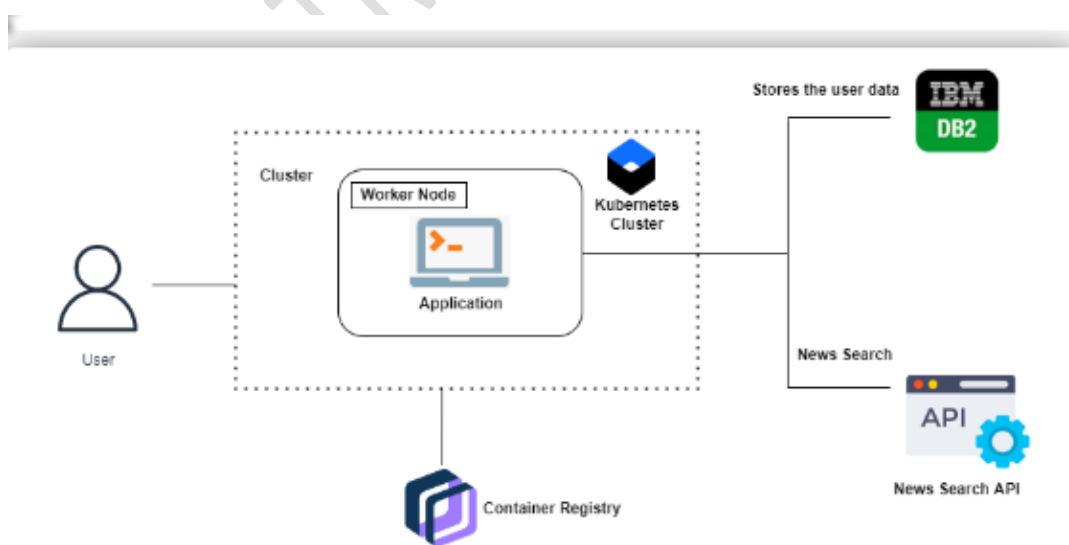
5.1 Data Flow Diagrams:



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 enters and leaves the system, what changes the information, and where data is stored.

5.2 Solution & Technical Architecture:

Technical Architecture (TA) is **a form of IT architecture that is used to design computer systems**. It involves the development of a technical blueprint with regard to the arrangement, interaction, and interdependence of all elements so that system-relevant requirements are met. An application architecture **describes the patterns and techniques used to design and build an application**. The architecture gives you a roadmap and best practices to follow when building an application.



5.3 User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Prior ity	Release
Customer (Mobile User)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password	can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive a 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 my email and password	I can receive confirmation	High	Sprint-1
		USN-4	As a user, I can rest if has forgotten my password	I can access my account	Low	Sprint-2
	Dash board	USN-5	As a User, Interact with the chat bot search of the desired product	I can register the Dash board	Medi um	Sprint-1
	Search	USN-6	search USN-9 As a User, I can the place where a particular point or object exists	I can receive of search	Low	Sprint-2
	Registration	USN-7	As a user, I will receive a	I can receive confirmation	High	Sprint-1

			confirmation email once I have registered for the application	email & click confirm		
	Login	USN-8	As a user, I can log into the application by entering my email and password	I can receive confirmation	High	Sprint-1
	Dash board	USN-9	As a User, Interact with the chat bot search of the desired product	I can register the Dash board	Medium	Sprint-2
	Search	USN-10	search USN-9 As a User, I can the place where a particular point or object exists	I can receive of search	Low	Sprint-2

6.PROJECT PLANNING & SCHEDULING

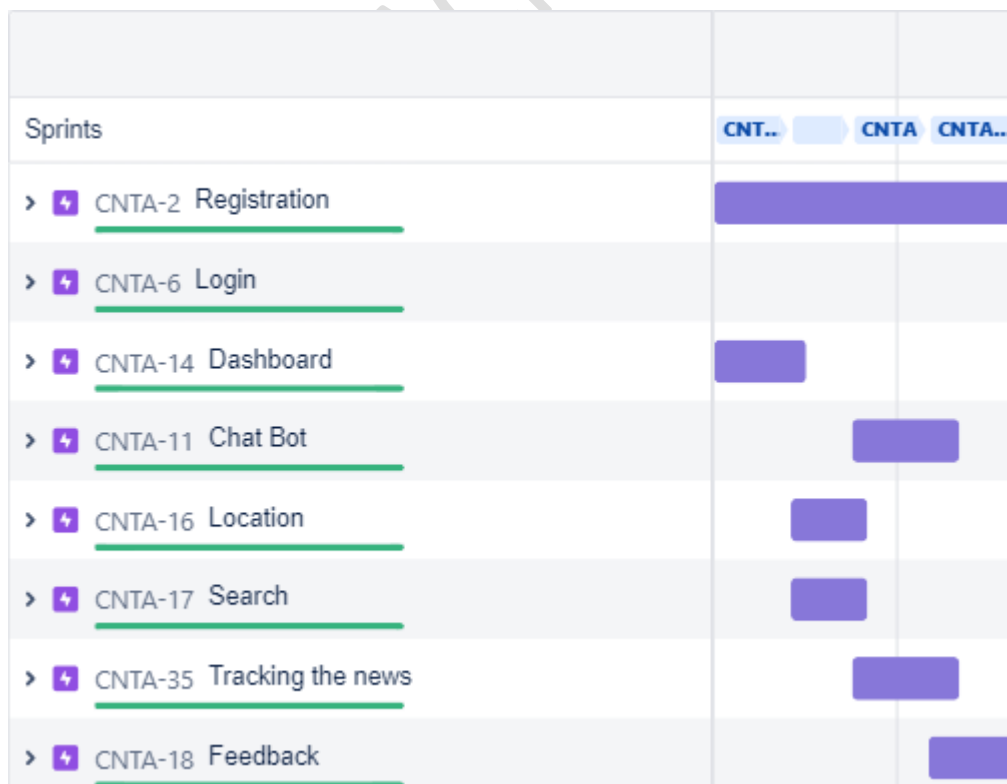
6.1 Sprint Planning & Estimation

Sprint	Functional Requirement (Epic)	User story number	User story/ Task	Story Point	Priority	Tram Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password	3	High	M. Ramya R. Nithisa K. Vishalini M.Pavatharani
Sprint-1	Login	USN-2	As a user, I can log into the application by entering email & password	2	High	M. Ramya R. Nithisa K. Vishalini M.Pavatharani
Sprint-1	Dash board	USN-3	As a user, the user can directly talk to chat bot for the product , and get the recommendation	1	High	M. Ramya R. Nithisa K. Vishalini M.Pavatharani
Sprint-2	Location	USN-4	As a User, the search a location using google map in mobile	4	Low	M. Ramya R. Nithisa K. Vishalini M.Pavatharani
Sprint-2	Search	USN-5	As a User, the search a location and collective in places	3	High	M. Ramya R. Nithisa K. Vishalini M.Pavatharani
Sprint-3	Chat bot	USN-6	As a user, I can add my name to my account	2	Medium	M. Ramya R. Nithisa K. Vishalini M.Pavatharani
Sprint-3	Tracking the news	USN-7	As a User, if a news track in to the any insident	4	High	M. Ramya R. Nithisa K. Vishalini M.Pavatharani
Sprint-4	Feed back	USN-8	As a user, News is also available as a web app for laptop	1	Low	M. Ramya R. Nithisa K. Vishalini M.Pavatharani

6.2 Sprint Delivery Schedule:

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date(Planned)	Story Points Completed (as on Planned End Date)	Story Points Completed (as on Planned End Date)
Sprint-1	10	6 days	20 oct 2022	25 oct 2022	10	25 Oct 2022
Sprint-2	6	5 days	25 oct 2022	29 oct 2022	6	29 Oct 2022
Sprint-3	8	6 days	29 oct 2022	03 Nov 2022	8	03 Nov 2022
Spriny-4	5	6 days	03 Nov 2022	08 Nov 2022	5	08 Nov 2022

6.3 Reports from JIRA:



7. CODING & SOLUTIONING

7.1 Feature 1

7.2 Feature 2

7.3 Database Schema

8. TESTING

8.1 Test Cases

8.2 User Acceptance Testing

9. RESULTS

9.1 Performance Metrics

10 ADVANTAGES & DISADVANTAGES:

Advantages:

- ✓ All the relevant opinions are available, no need to rely on the view of one person or a sample of people
- ✓ Unedited by a single entity, so no hidden agendas
- ✓ unsolicited information about anything that is important to people
- ✓ Own Your Channels.
- ✓ Better User Experience.

- ✓ Higher Engagement.
- ✓ Push notifications.
- ✓ Revenue Opportunities.
- ✓ App Store Presence.
- ✓

Disadvantages:

- ✓ may lack the objectivity of a newspaper.
- ✓ may express opinions as if they were facts without having any proof.
- ✓ it may rely too heavily on personalities, emotions, opinions... not facts.
- ✓ It can shortchange complex stories or avoid them altogether.

11 CONCLUSION:

In this paper we develop a cross-platform News Application.

It is an application that implements the policy of “for the people, by the people”. It enables common users to post news on the application instead of journalists, and other users can view this news to stay updated about the events happening

around them.

According the above sections we can say that crossplatform is one of the best ways to implement mobile applications. It is efficient way to implement app within least time and cost.

12 FUTURE SCOPE:

Connectivity with the YouTube and Social Media is one of the important feature can be added in future. For interacting with peoples of different regions, language translation facility can be added. So the peoples belonging to all class of society can be use it very efficiently. Different notification sounds can be added. The news in the form of audio can be added in future.

13. APPENDIX

Source Code

GitHub & Project Demo Link

<https://github.com/IBM-EPBL/IBM-Project-21622-1659785954>

NEWS TRACKER APPLICATION