NEWS TRACKER APPLICATION

IBM–DOCUMENTATION

UNDERTHEGUIDANCEOF

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KRISHNASAMYCOLLEGEOFENGINEERINGANDTECHNOLOGY 2019-2023

ANNA UNIVERSITY :: 2019-2023

1. INTRODUCTION

1.1 Project Overview

The main objective of the project is to provide people a handy a web application through which people can access all types of news and information. Through this application, any user can gain technical knowledge of the world and its surrounding with just one click ahead. User does not have to visit multiple sites for different related information. All information is going to be in one place. Many people generally get the redundancy in the information .Sometimes, people even spread fake news, which circulates and spread more like a disease of false information in Whatsapp and other social media. Various myths are also likely to spread as soon as possible which gives more harm than good to the people. This app while cross- checks the redundancy in the information along with the false and misleading information, which later results in panic in the people.

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

1. AnImprovedMethodforMulti-LingualNewsFeedApplication

Authors: Regonda Nagaraju, Mohammed Farhanpasha, Mohammed AbdulMajeed, AdapaSujith

Inthepresentera,theinternetandnewtechnologiesarechangingtheinformatio behaviour of news reader. Instead of reading a copy of the localnewspaper or watching the scheduled evening news ,people incresingly turn totheinternetfordailynewsupdate.Thisuserswillfindtheapplicationinteresting and reading the news articles.Multi-lingual news provide from 50+countriesandtranslatemore90+languages.ByadvancedCSSstylesanddifferentf rontend technologies.

2. Challenges and issues on online news managementAuthors:

Wael M.S. Yafooz, SitiZ.Z.Abidin, Nasiroh Omar

Recently, the Internet usage spread in all areas of life. Online news is among the popular articles on the Internet, which occupies a large portion of online information. The online news will be viewed almost every second in order tofollow the evolution of any desired global events. There are many organizationsor political parties employ agents for tracking news by grouping the event. Therefore, news clustering is helpful and worthy for many researchers and online news readers in order to view events from multiple perspectives. Additionally, it can be used in online news summarization, topic detection and tracking for extracting and detecting new events or topics in the news articles.

3. Android News Application

Authors: Brijesh Joshi , Nehal Patel Department of Information Technology, CSPIT, Changa, Gujarat, India(2018)

The world fast technology. Then connect to the people and used mobile day today. Where user have access to latest news from 120+ news paper from 50+ countries. We need to stay updated with every incidents and news too. Then fast and best visualize way.

4. An Approach to NewsEvent Detection and Tracking Based on StreamofOnlineNews

Authors: YajieQi,LiZhou,HuayouSi,JianWan,TingJin

Once an event occurs, usually there are a large number of online news to bereleased. How to quickly and accurately detect the hot events from the hugeamount of online news is the focus and hotspot. Event detection and trackingtechnology is as a key technology to solve this problem. In this paper, wepropose an approach to detect hot events from the onlinenews stream in atimelymannerandtrackthehotevents.Basedontheideaofsingle-passclusteringalgorithm,thisapproachaddresstheweightofkeywordsandproposes a newmethod to calculate similarity amongnewsto track event.Through the analysis of the experimental results, we can find that this algorithmhasagood effectonhot eventdetection.

5. BreakingNewsDetectionandTrackinginTwitterAuthors:
Swit Phuvipadawat,TsuyoshiMurata

Twitter has been used as one of the communication channels for spreadingbreaking news. We propose a method to collect, group, rank and track breakingnewsinTwitter.Sinceshortlengthmessagesmakesimilaritycomparisondiff icult,weboostscoresonpropernounsto improvethegroupingresults.Each

group is ranked based on popularity and reliability factors. Current detectionmethod is limited to facts part of messages. We developed an application called“Hot stream” based on the proposed method. Users can discover breaking newsfromTwitter timelinethe.

6. NewshotspotsdetectionandtrackingbasedonLDAtopicmodelAuthor :*XiaoHu*

With the rapid spread of Internet and the mobile web, the number of news pagesisincreasing quickly as well as the content of news becomeshighly dynamic.It's difficult for normal users to obtain specific information contained in a massof news streams. So it's of great research significance to study how to analyzemassivenews,detectandtracknewshotspotsautomatically.Thisresearchpro poses to apply LDA (Latent Dirichlet Allocation) model to the applicationof topic detection and tracking. The news articles collected by crawlers aremodeled by the LDA model in a form of document-topic-word distribution. Wepropose a method to compute the heat of topics based on the distribution and todetect thenewshotspots.

7. Trackingterrorismnewsthreadsby extractingeventsignaturesAuthors: SyedToufeeqAhmed, RuchiBhindwale,HasanDavulcu

With the humongous amount of news stories published daily and the range ofways (RSS feeds, blogs etc) to disseminate them, even an expert at tracking newdeveloping storiescan feel theinformation overload.Atmost times,when auser isreading a news story, she would like to know ldquowhat happenedbefore this? ldquo or ldquo how things progressed after this incident?rdquo. Inthis paper, we present a novel real-time yet simple method to detect and tracknew events related to violence and terrorism in news streams through their lifeoveratimeline.

8. NewsKeywordExtractionforTopicTrackingAu thors:SungjickLee,Han-JoonKim

This paper presents a keyword extraction technique that can be used for trackingtopics over time. In our work, keywords are a set of significant words in anarticle that gives high-level description of its contents to readers. Identifyingkeywords from a large amount of on-line news data is very useful in that it canproduce a short summary of news articles. As on-line text documents rapidlyincrease in size with the growth of WWW, keyword extraction has become abasisofseveraltextminingapplicationssuchassearchengine,textcategorization, summarization, and topic detection. Manual keyword extractionisanextremelydifficultandtimeconsumingtask;infact,itisalmostimpossib le to extract keywords manually in case of news articles published in asingleday duetotheirvolume.Forarapiduseof

keywords,weneedtoestablishanautomatedprocess thatextractskeywords fromnewsarticles.

2.1 Existing problem

- 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.

2.2 References

Trackingterrorismnewsthreadsbyextractingeventsignatureshttps://ieeexplore.ieee.org/document/5137296/authors#authors

NewshotspotsdetectionandtrackingbasedonLDAtopicmodelhttps://ieeexplore.ieee.org/document/7949504

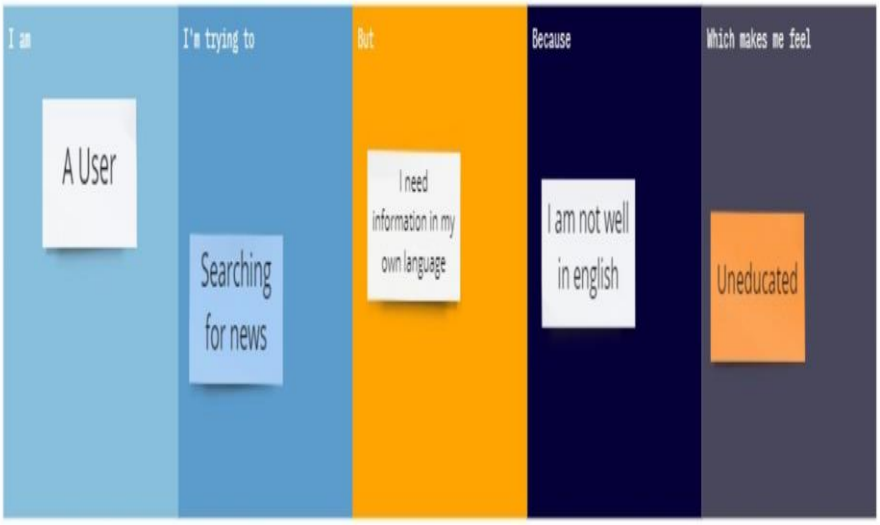
BreakingNewsDetectionandTrackinginTwitterhttps://ieeexplore.ieee.org/document/5616930

Anapproachtonewseventdetectionandtrackingbasedonstreamofonlinenews
https://ieeexplore.ieee.org/document/8048142

Challengesandissuesononlinenewsmanagement
https://ieeexplore.ieee.org/document/6190574

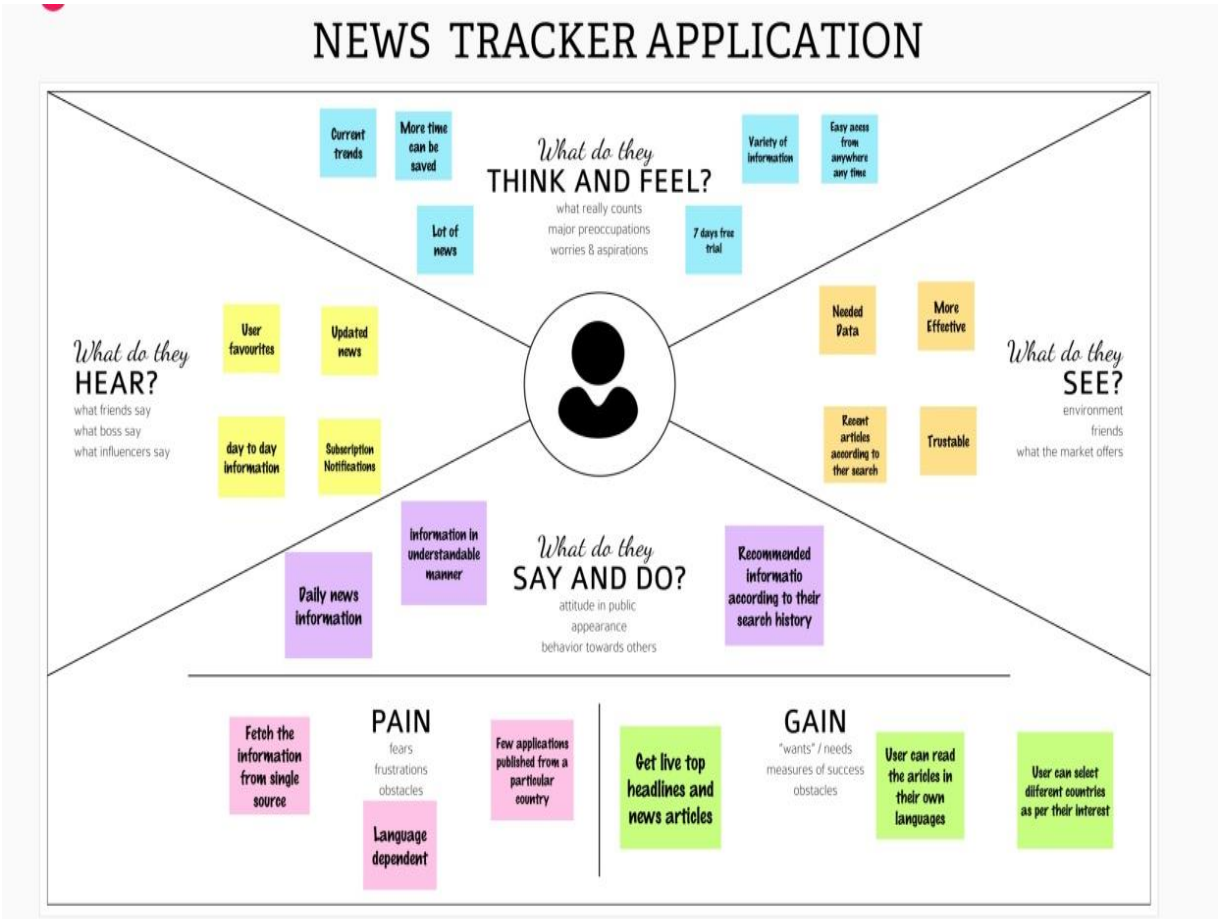
Newskeywordextracctionfortopictracking
https://ieeexplore.ieee.org/document/4624203

2.3 Problem Statement Definition

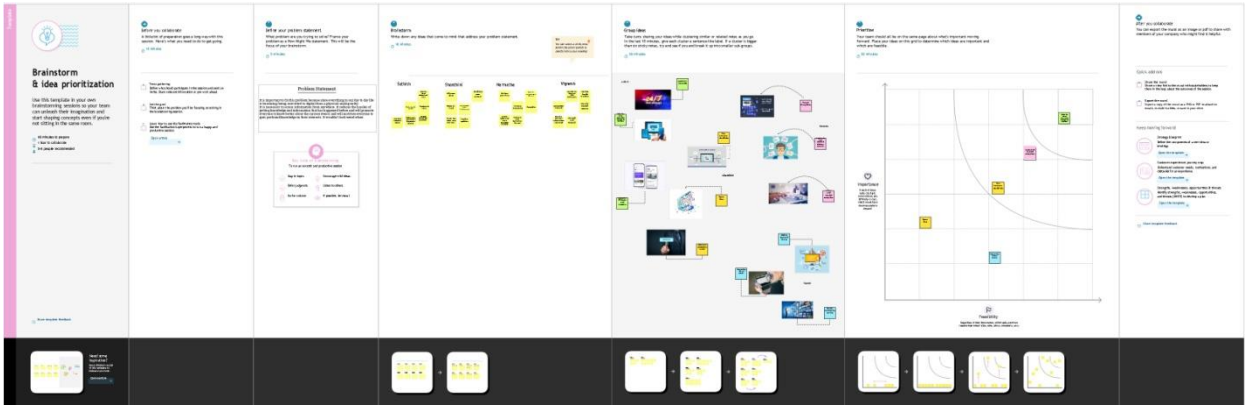


3. IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas



3.2 Ideation & Brainstorming



3.3 Proposed Solution

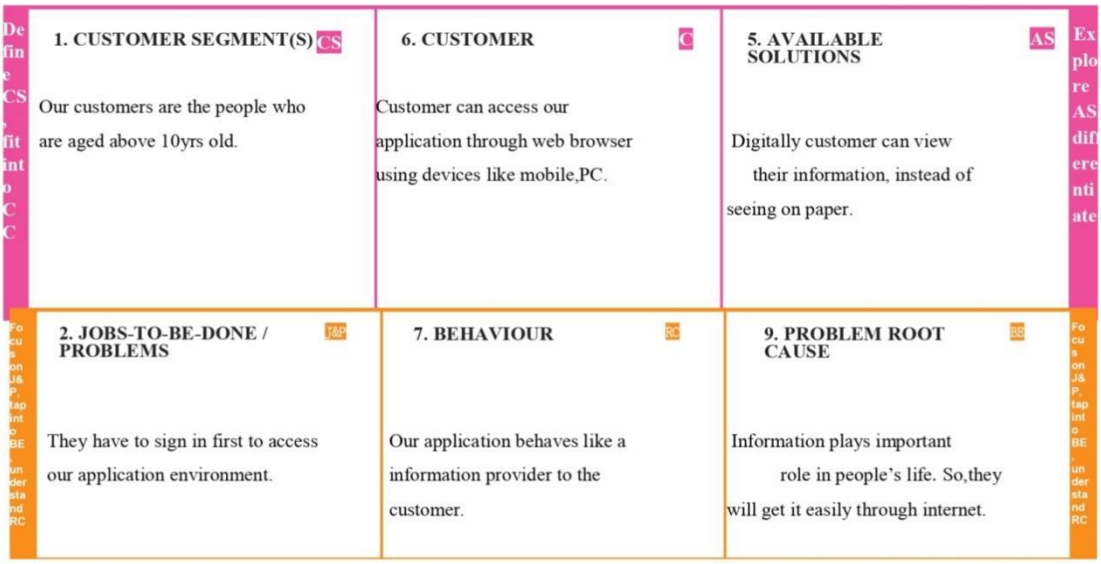
S.No.	Parameter	Description

1.	ProblemStatement(Problemtobesolved)	Manypeoplegenerallygettheredundancy in the information. Sometimes,peopleevenspreadfakenews,whichcirculates and spread more like a disease offalseinformationinwhatsappandothersocial media. Various myths are also likelytospreadassoonaspossiblewhichgives more harmthangoodtothepeople.
2.	Idea/Solutiondescription	Thisappwhilecross-checktheredundancyintheinformation alongwiththe false and misleading information, whichlaterresultsinpanicinthe people.
3.	Novelty/Uniqueness	A news app allows users to read location-based news. For instance, a user from theUSA would get news updates related to thepeoplelivingthere.Additionally,peoplewho don't have time to read detailed articlescanbrowseovertheheadlinestostayabreastofthehappeningsaround theworld. Iftheyfindaheadlinematchingtheirinterest, they can read the whole article indepth. You can also add images, GIFs, orvideostomakearticlesmoreinterestingand appealing.

		Plentyofhistoricalandpoliticalevents takeplaceacrosstheglobedaily.Itisaknown factthatsomenewsismorevitalthanothers.Users houldbeabletodistinguishsuchessential information. Thisiswhyanewsapppinsbreakingnews at the top of other news. You can alsosendpushnotificationstoinformthemabout thebreakingandlatestnewsusingyourapp.Besides,youcandisplay thesenotificationsonthelockscreenoftheirmobiledevicestoimprovetheirexperience.
4.	Social Impact / Customer Satisfaction	The consequences of disinformation overload are the spread of uncertainty, fear,anxiety and racism on a scale not seen inprevious epidemics, such as SARS, MERSand Zika. Therefore, the WHO is dedicatingtremendouseffortsaimedatprovidingevidence-basedinformationandadvicetothepopulationthroughitssocialmediachannels,suchasWeibo,Twitter,Facebook,Instagram,LinkedInandPinterest,aswellasthrough itswebsite. The MIT Technology Review highlightsthat social media are not only being used tospread false news and hate messages but arealso being used to share important truthfuldataandsolidaritywith all thoseaffectedby thevirusandhatemessages
5.	BusinessModel(RevenueModel)	Thefactthatwenowseethatmoreand morenewspapersarechoosingtomergebothapsismainlyduetoachangedconnectionbetweenthetwosourcesof

		revenueofpublishers:thatofthereaderand advertisermarket. Roughlytenyearsago,theprevailingideawasthatconsumerswouldnotpayforonlinenews and that publishers' internet revenuesshouldthereforecomepurelyfromadvertisingincome. As a result it was quite simple to definethecommercialgoalsforapps:reachasmanyusersaspossible,tomaximizeadvertisingrevenues.Alongside,e-paperapps were mainly an extra service for theexistingprintsubscribersandsomelostbuyersofsingledigitalcopies.
6.	Scalabilityofthe Solution	Thegoalistoshowhowadevelopercan buildtheirown news feedas a feature inthedeveloper'sapp.CloudservicessuchasAmazonWebServiceswillprovideinfrastructureeasilybutthemanagementoverhead of using a database cluster is stillthere. Evenusingatraditionalcontentmanagement system (CMS)approach,thedevelopermustcreatemultiplevirtualmachinestorunaclusterofdatabases. The approach detailed in this article willreduce the infrastructure required tobuildsuchaservice.Whatwe describecanbedeployed on any cloud-based infrastructureprovider.Inshort,thisarticleshouldbetakenasablueprinttomakeaservicesimilartowhatTwitterorFacebookoffers.

3.4 Problem Solution fit



4. REQUIREMENT ANALYSIS

4.1 Functional requirement

FunctionalRequirements:

Followingarethefunctionalrequirementsoftheproposedsolution.

FR No.	**FunctionalRequirement (Epic)**	**SubRequirement(Story/Sub-Task)**
FR-1	UserRegistration	RegistrationthroughonlineapplicationRegistrationthroughGmail Registrationthroughwebsite
FR-2	UserConfirmation	ConfirmationviaEmail ConfirmationviaOTP
FR-3	Userlogin	Login through browser directly by enteringusernameandpassword Loginthrough Loginthroughemail
FR-4	Userinteraction	Donethroughuserinterfacebetweenclientandserver Viewtherelatednewsbysubscriptedor requestedpage

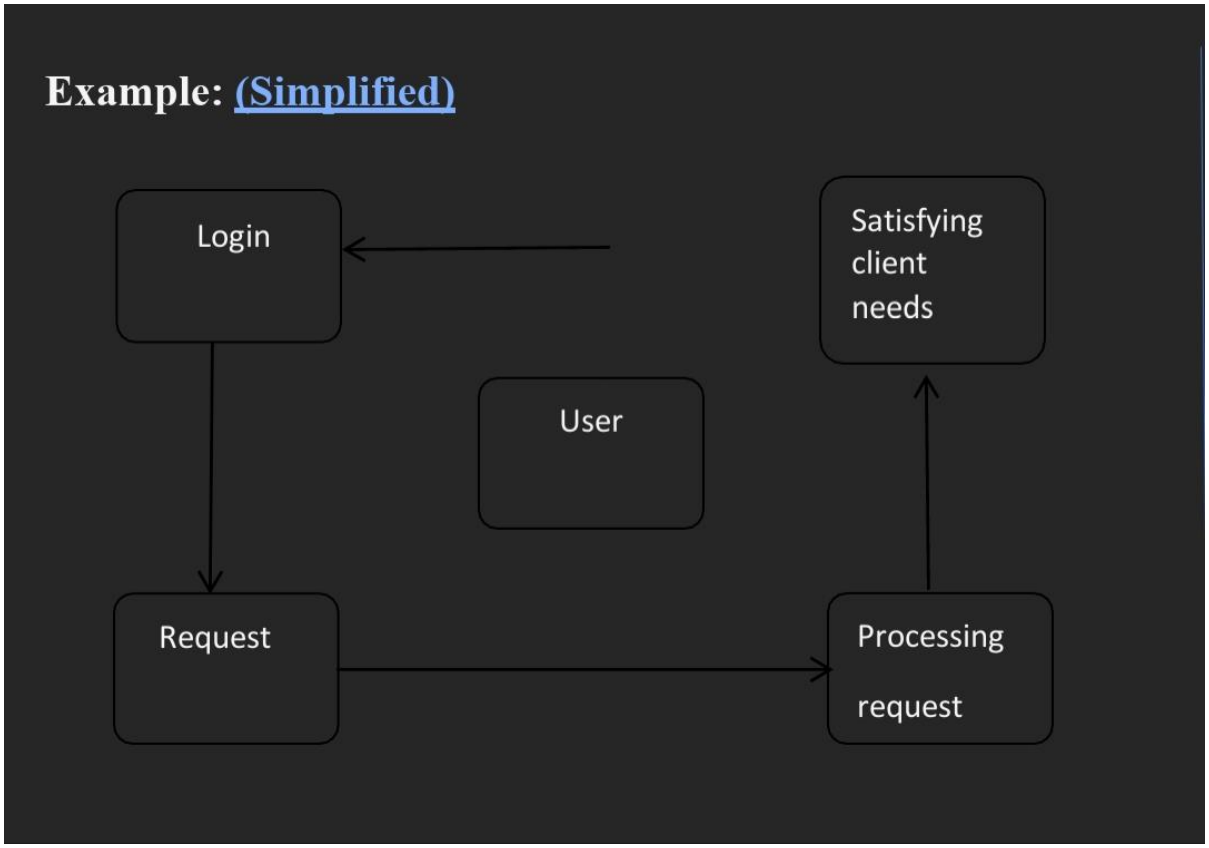
4.2 Non-Functional requirements

5. PROJECT DESIGN

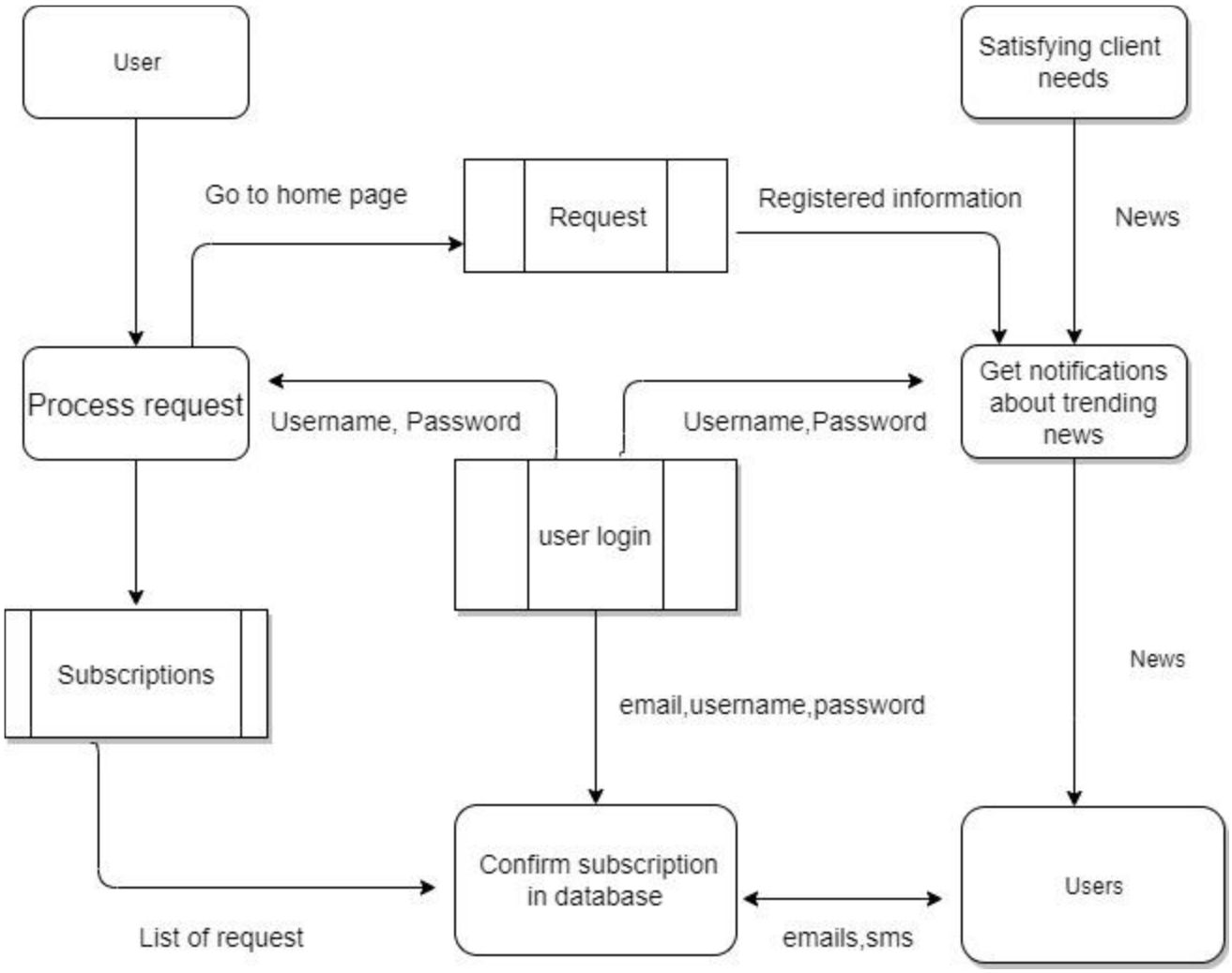
5.1 Data Flow Diagrams

DataFlowDiagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clearDFDcan depictttherightamountofthesystemrequirementgraphically.Itshowshowdataentersandleavesthesystem,whatchangestheinformation,andwheredatais stored.



Example: DFD Level 0 (Industry Standard)

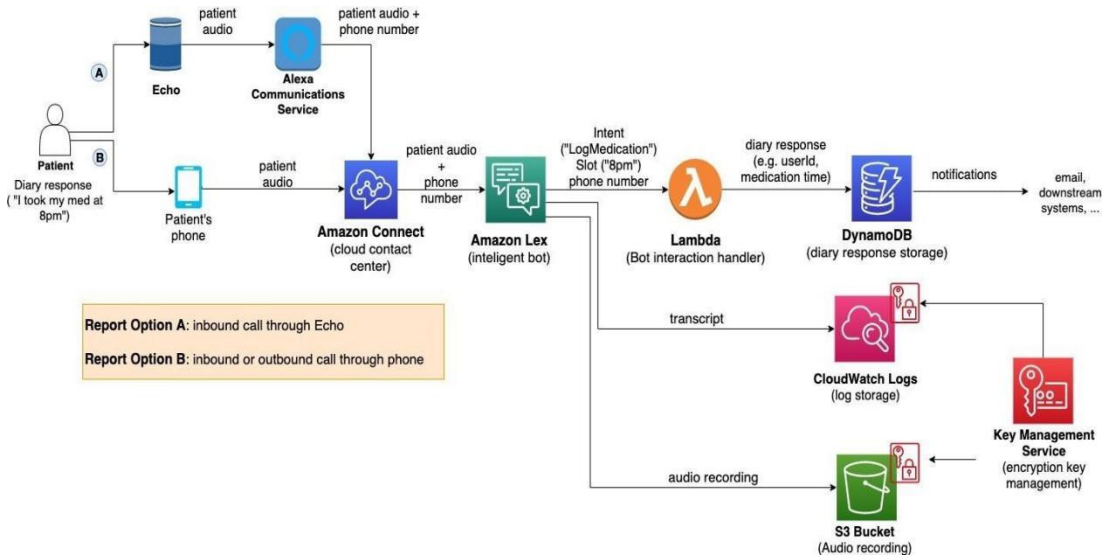


5.2 Solution & Technical Architecture

SolutionArchitecture:

Solution architecture is a complex process – with many sub-processes – that bridgesthegapbetweenbusinessproblemsandtechnologysolutions.Itsgoalsareto:

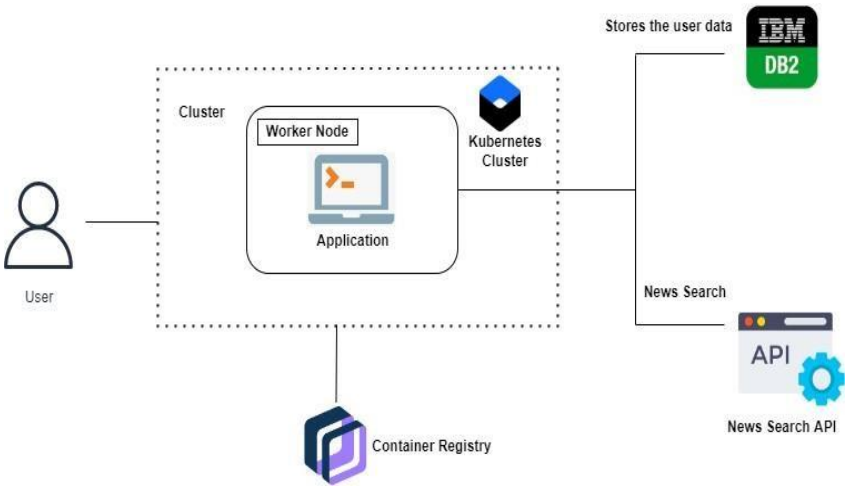
- Findthebesttechsolutiontosolveexistingbusinessproblems.
- Describe the structure, characteristics, behavior, and other aspects of thesoftwareto project stakeholders.
- Definefeatures,developmentphases,andsolutionrequirements.
- Providespecificationsaccordingtowhichthesolutionisdefined,managed,anddelivered.



Example-SolutionArchitectureDiagram:

Figure1:Architectureanddataflowofthevoicepatientdiarysampleapplication

Reference:https://aws.amazon.com/blogs/industries/voice-applications-in-clinical-research-powered-by-ai-on-aws-part-1-architecture-and-design-considerations/



TechnicalArchitecture:

TABLE1: COMPONENTS AND TECHNOLOGIES:

S.No	Component	Description	Technology
1.	UserInterface	Theusercaninteractwiththeapplicationtoknow aboutthetrendingnews	HTML,CSS, JavaScript/ AngularJs/ReactJsetc.
2.	Application Logic-1	Theapplicationcontainsthisresourcegives youbasicunderstandingofFlask	Flask
3.	ApplicationLogic-2	Theapplicationcontainsthenewssub-divisionlikegeographicalnews,economic newsandsocietynews	IBMWatsonSTTservice
4.	Application Logic-3	Theusercanviewthegrowthofthe economyinindustrythroughgraph	IBM Watson Assistant
5.	Database	Updationoftrendingnewsarestoredin the	MySQL, NoSQL, etc.

		MySQLdatabase	
6.	Cloud Database	Withtheuseofcloud,mediacoverageissue cannotbeoccurred	IBM DB2, IBM Cloudantetc.

TABLE 2:APPLICATION CHARACTERISTICS:

S.No	Characteristics	Description	Technology
1.	Open-SourceFrameworks	Flaskisflexibleanddoesn'trequiretouseanyparticularprojectorcodelayoutusedinthis application	Python-Flask
2.	Security Implementations	Thiscanbeaccessonlybythejournalist.So,ItisahighSecurity	Container Registry, KubernetesCluster.
3.	ScalableArchitecture	NewsTrackerisasocio-economicaccessbecausehelpstoknowabout thedailyactivityoftheworld	Container Registry,Kubernetes
4.	Availability	Thisapplicationwillbeavailabletotheall theuserwhoareusingthis application	Container Registry,Kubernetes
5.	Performance	The updation of trending newsoccurswithoutanyinterruption.So, itperformanceisgood	KubernetesCluster.

References:

https://github.com/IBM-EPBL/Assignments-CApD/tree/mainhttps://ieeexplore.ieee.org/document/5616930https://ieeexplore.ieee.org/document/1565880https://ieeexplore.ieee.org/document/8703401

5.3 User Stories

Usethebelowtemplatetolistall theuserstoriesfortheproduct.

UserType	**Functional Requirement(Epic)**	**User Story Number**	**UserStory/Task**	**Acceptancecriteria**	**Priority**	**Release**
Customer (Searchig news)	Registration	USN-1	As a user, I can register for theapplicationbyenteringmyemail, password,andconfirmingmypassword.	Icanaccessmyaccount/dashboard	High	Sprint-1
		USN-2	As a user, I will receiveconfirmationemailonce Ihave registeredfortheapplication	I can receiveconfirmationemail &clickconfirm	High	Sprint-1
		USN-3	Asauser, Ican registerfortheapplicationthrough theirgivenwebsite	I can register &accessthedashboardwithGmailorinBrowser Login	Low	Sprint-2
		USN-4	Asauser, Icanregisterforthe applicationthrough Gmail		Medium	Sprint-1
	Login	USN-5	As a user, I can log into theapplicationbyenteringemail&password	Icanviewalltypesofinformations through thisapplication	High	Sprint-1
	Dashboard	USN-6	Toseetheirhistoriesabo			

			utrecentlyviewed,updatesforsearchrelated news,currentprogress,feedback			

UserType	Functional Requirement (Epic)	User StoryNumber	UserStory/Task	Acceptan
Customer(Webuser)	Browser	USN-7	Haveinteractivemediumbetweencl ientandserver	I have tousethisa nandeasil myspecifi
Customer CareExec utive	Chatbot	USN-8	Rectifytheissuesrelated subscription,account,termsandc onditions,privacypolicy	

6. PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation

Functional Requirement(Epic	User Story Number	UserStory/Task	Story Points	Priority	Team Members
Registration	USN-1	As a user, I can register for the application byentering my email, password, and confirmingmypassword.	2	High	K.SATHISHS.NARMAT HAA.SHANTHINI M.VIGNESH
ConfirmationEmail	USN-2	As a user, I will receive confirmation email onceIhave registeredfortheapplication	2	High	K.SATHISHS.NARMAT HAA.SHANTHINI M.VIGNESH
Userprofile	USN-3	Once the registration done,a separate profilewillbecreatedfor auser andtheycanaccesstheinformatio nsecurelyfrom theirprofile.	2	High	K.SATHISHS.NARMAT HAA.SHANTHINI M.VIGNESH
Searchth einforma ion	USN-4	After the profile creation as a user,I can searchthenewsinformation tobe needed.	2	High	K.SATHISHS.NARMAT HAA.SHANTHINIM.VI GNESH
Category	USN-5	A user can search the information by selectingtheir category like sports,food,politics,weatheretc …	2	High	K.SATHISHS.NARMAT HAA.SHANTHINI M.VIGNESH

Sprint	Functional Requirement(Epic)	User Story Number	UserStory/Task	Stor
Sprint-6	Location	USN-6	As per user location or selected location byuser,theinformation will befeeded.	
Sprint-7	Language	USN-7	As a user,I can read or view the information asmyneededlanguage.	

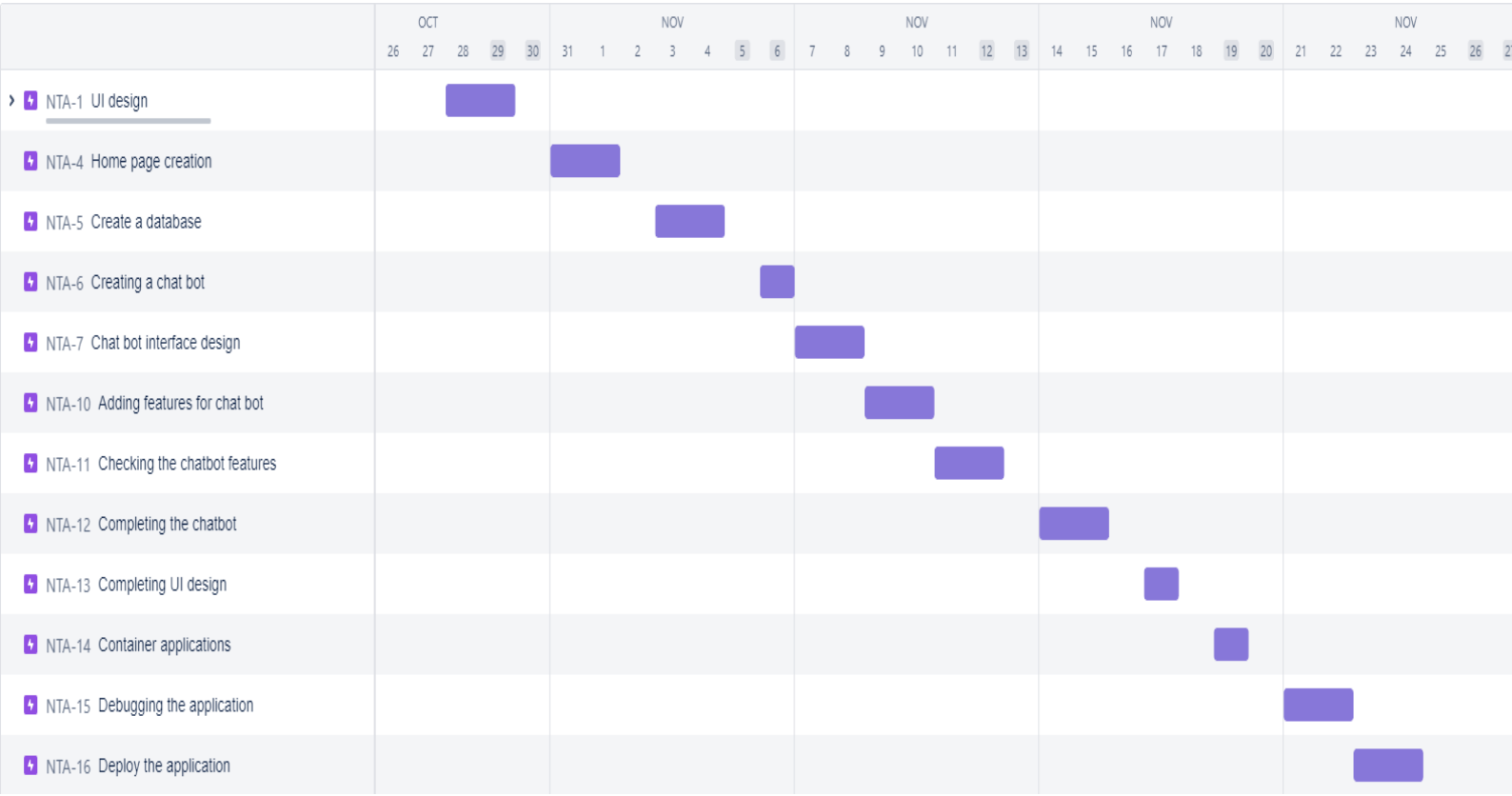
6.2 Sprint Delivery Schedule

ProjectTracker,Velocity&BurndownChart:

Sprint	Total StoryPoints	Duration	Sprint StartDate	Sprint End Date(Planned)	Story PointsCompletion PlannedE
Sprint-1	20	6 Days	24 Oct2022	29 Oct2022	
Sprint-2	20	6 Days	31 Oct2022	05Nov2022	
Sprint-3	20	6 Days	07Nov2022	12Nov2022	
Sprint-4	20	6 Days	14Nov2022	19Nov2022	

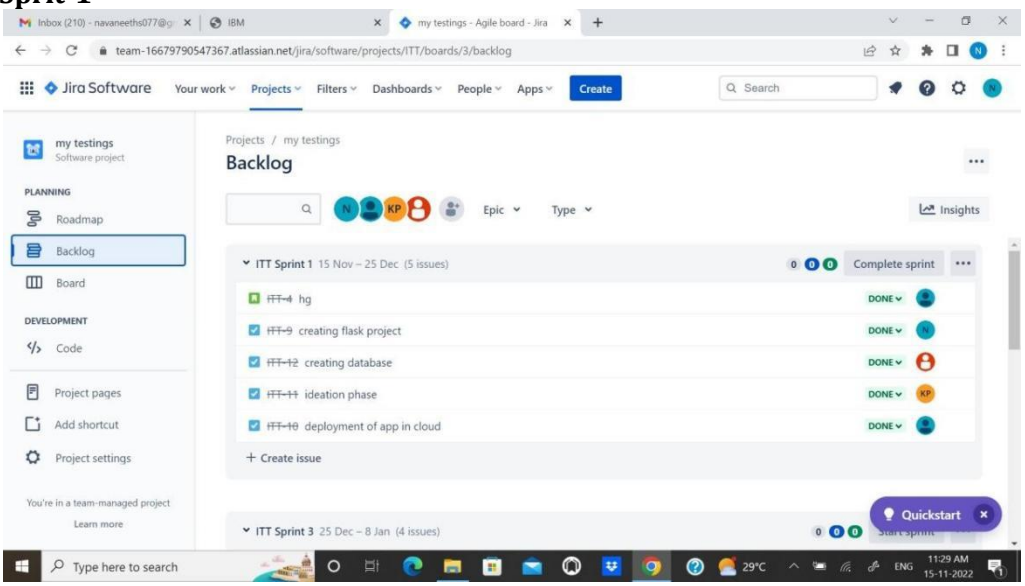
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) periterationunit(storypointsperday)

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

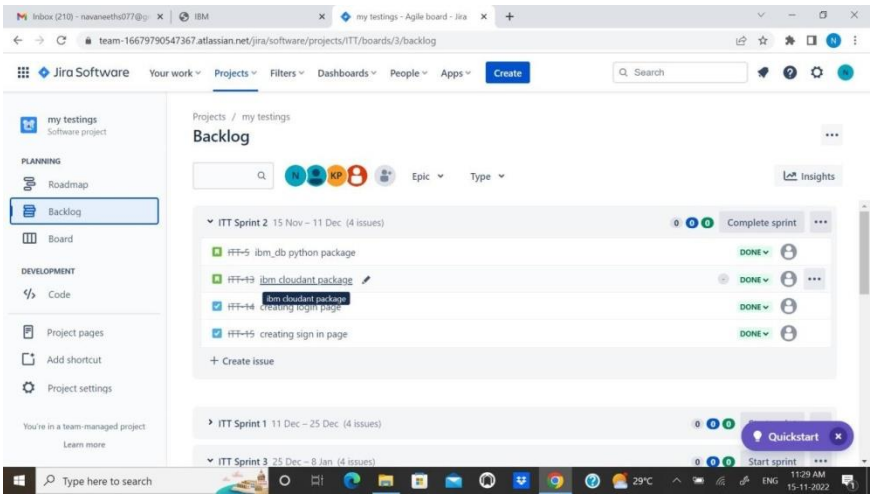


6.3 Reports from JIRA

Sprit-1



Sprint-2



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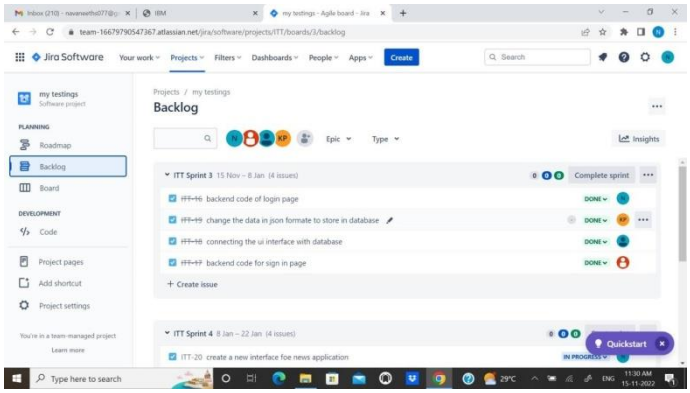
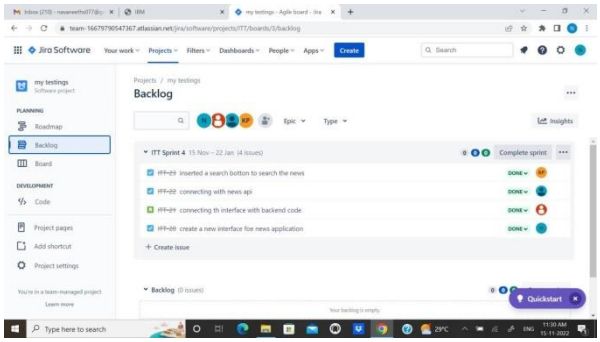
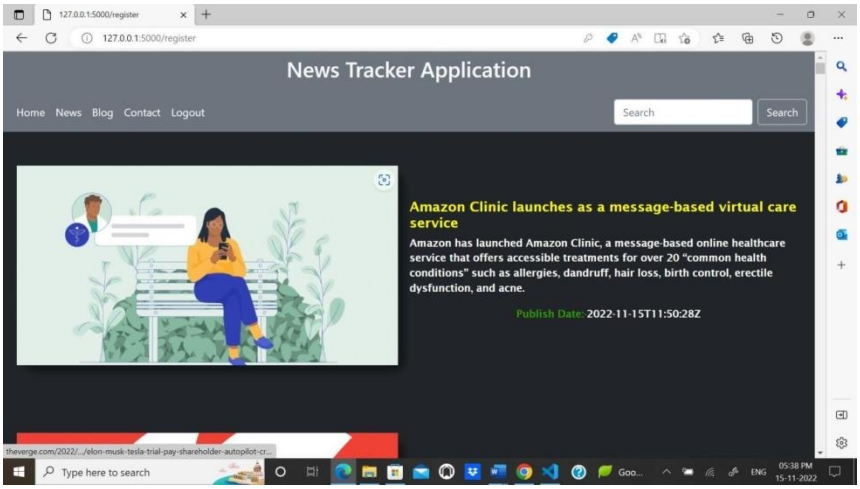




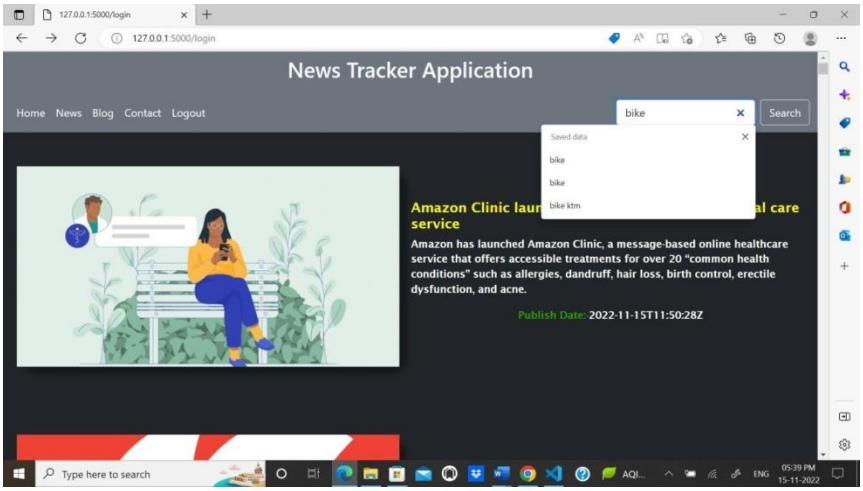
Sprint-4

7. CODING & SOLUTIONING (Explain the features added in the project along with code)

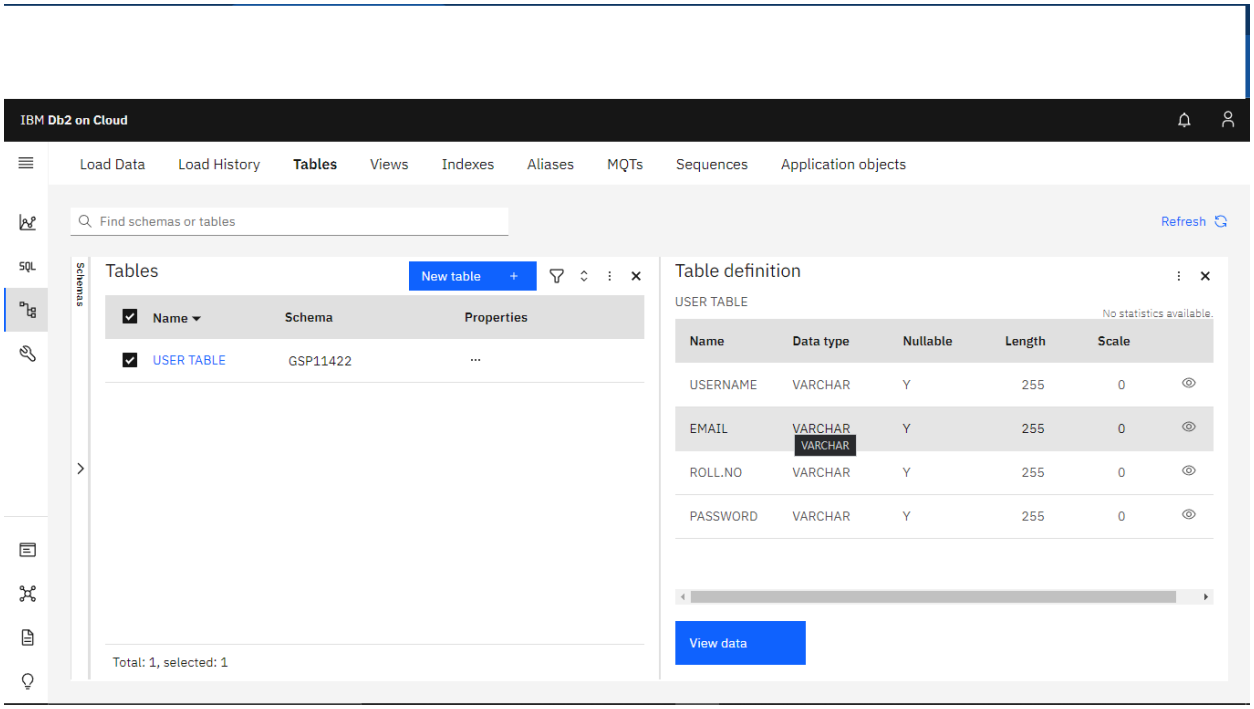
7.1 Feature 1



7.2 Feature 2



7.3 Database Schema (if Applicable)



8. TESTING

8.1 Test Cases

8.2 User Acceptance Testing

				Date	03-Nov-22								
				Team ID	PNT2022TMID20100								
				Project Name	Nutri Tracker Application								
				Maximum Marks	4 marks								
Test case ID	Feature Type	Component	Test Scenario	Pre-Requisite	Steps To Execute	Test Data	Expected Result	Actual Result	Status	Comments	TC for Automation(Y/N)	BUG ID	Executed By
_oginPage_TC_001	Functional	Home Page	Verify user is able to see the Login/Signup popup when user clicked on My account button		1.Enter URL and click go 2.Click on My Account dropdown button 3.Verify login/Signup popup displayed or not	https://shopzeor.com/	Login/Signup popup should display	Working as expected	Pass				Kurepplak
_oginPage_TC_002	UI	Home Page	Verify the UI elements in Login/Signup popup		1.Enter URL and click go 2.Click on My Account dropdown button 3.Verify login/Siegup popup with below UI elements: a.email text box b.password text box c.Login button d.New customer? Create account link e.Lost password? Recovery password link	https://shopzeor.com/	Application should show below UI elements: a.email text box b.password text box c.Login button with orange colour d.New customer? Create account link e.Lost password? Recovery password link	Working as expected	Fail	Steps are not clear to follow		BUG-1234	Kowsick Srinivas
_oginPage_TC_003	Functional	Home page	Verify user is able to log into application with Valid credentials		1.Enter URL(https://shopzeor.com/) and click go 2.Click on My Account dropdown button 3.Enter Valid username/email in Email text box 4.Enter valid password in password text box 5.Click on login button	Username: chalun@gmail.com password:Tcsting123	User should navigate to user account homepage						Navaneeth
_oginPage_TC_004	Functional	Login page	Verify user is able to log into application with InValid credentials		1.Enter URL(https://shopzeor.com/) and click go 2.Click on My Account dropdown button 3.Enter InValid username/email in Email text box 4.Enter valid password in password text box 5.Click on login button	Username: chalun@gmail password:Tcsting123	Application should show 'Incorrect email or password ' validation message.						Naveen Raja
_oginPage_TC_004	Functional	Login page	Verify user is able to log into application with InValid credentials		1.Enter URL(https://shopzeor.com/) and click go 2.Click on My Account dropdown button 3.Enter Valid username/email in Email text box 4.Enter invalid password in password text box 5.Click on login button	Username: chalun@gmail.com password: Tcsting12367868676876	Application should show 'Incorrect email or password ' validation message.						Navaneeth
_oginPage_TC_005	Functional	Login page	Verify user is able to log into application with InValid credentials		1.Enter URL(https://shopzeor.com/) and click go 2.Click on My Account dropdown button 3.Enter InValid username/email in Email text box 4.Enter invalid password in password text box	Username: chalun password: Tcsting12367868676876	Application should show 'Incorrect email or password ' validation message.						Naveen Raja

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	10	4	2	3	20
Duplicate	1	0	3	0	4
External	2	3	0	1	6
Fixed	11	2	4	20	37
Not Reproduced	0	0	1	0	1
Skipped	0	0	1	1	2
Won't Fix	0	5	2	1	8
Totals	24	14	13	26	77

3. Test Case Analysis

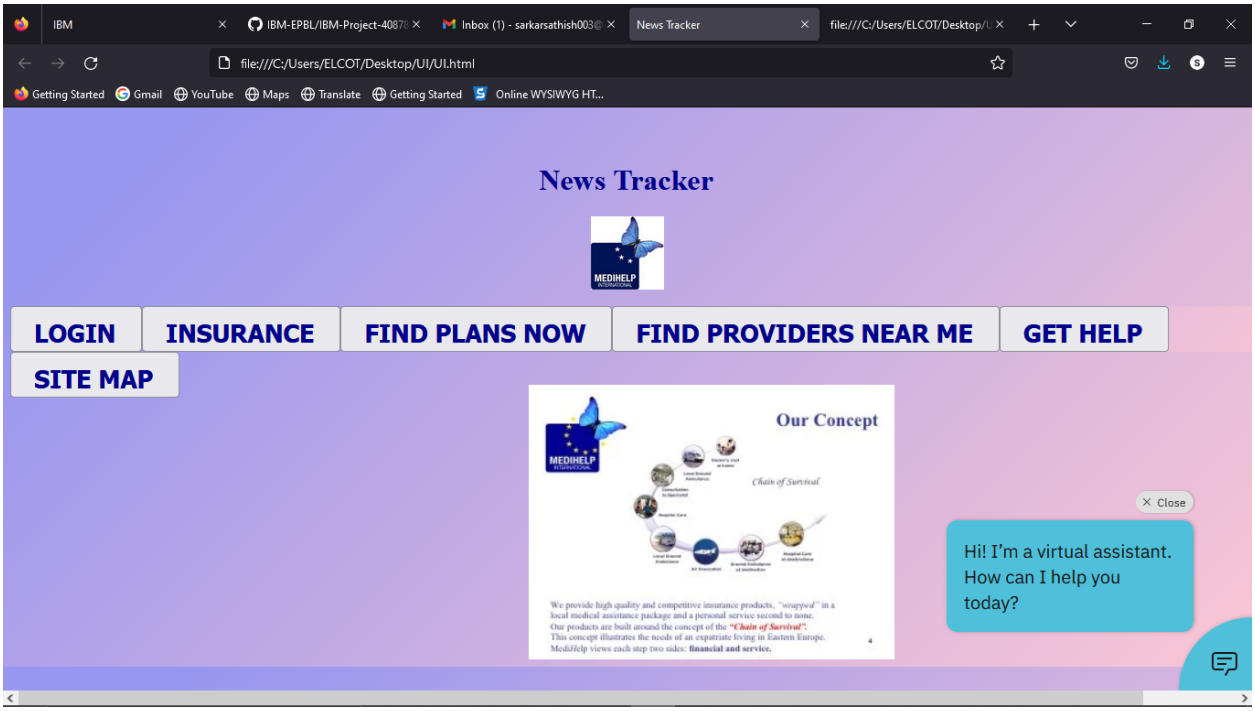
This report shows the number of test cases that have passed, failed, and untested

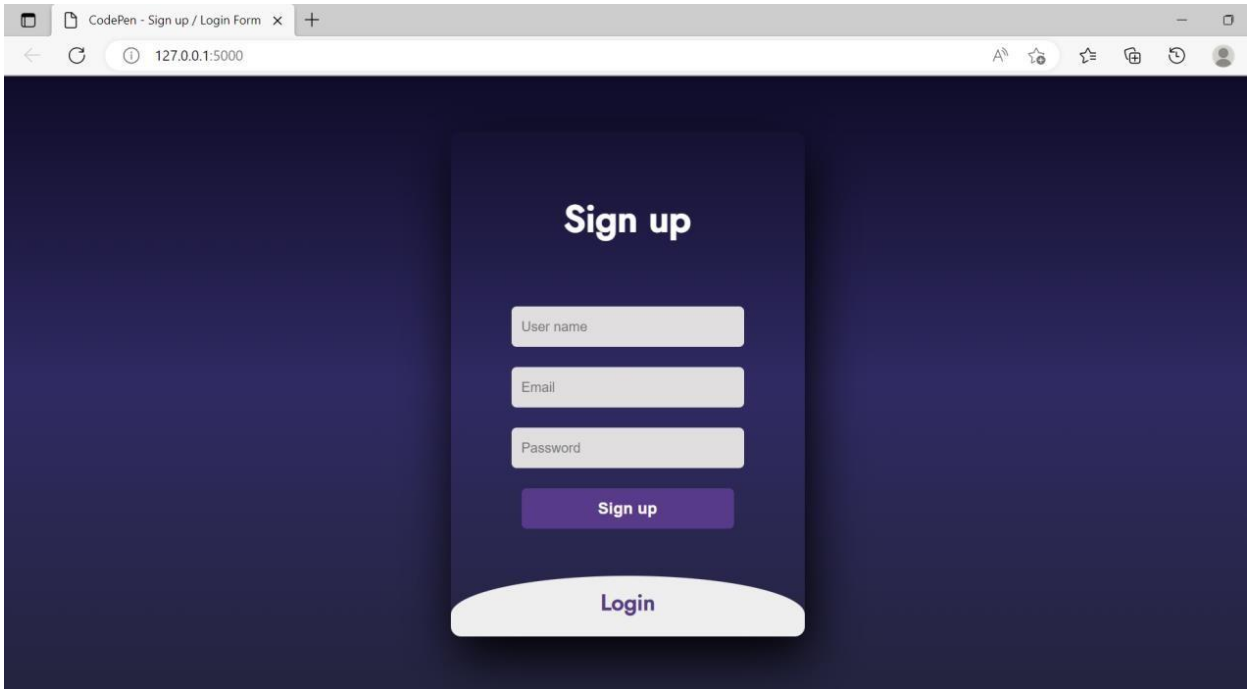
Section	Total Cases	Not Tested	Fail	Pass
Print Engine	7	0	0	7
Client Application	51	0	0	51
Security	2	0	0	2
Outsource Shipping	3	0	0	3

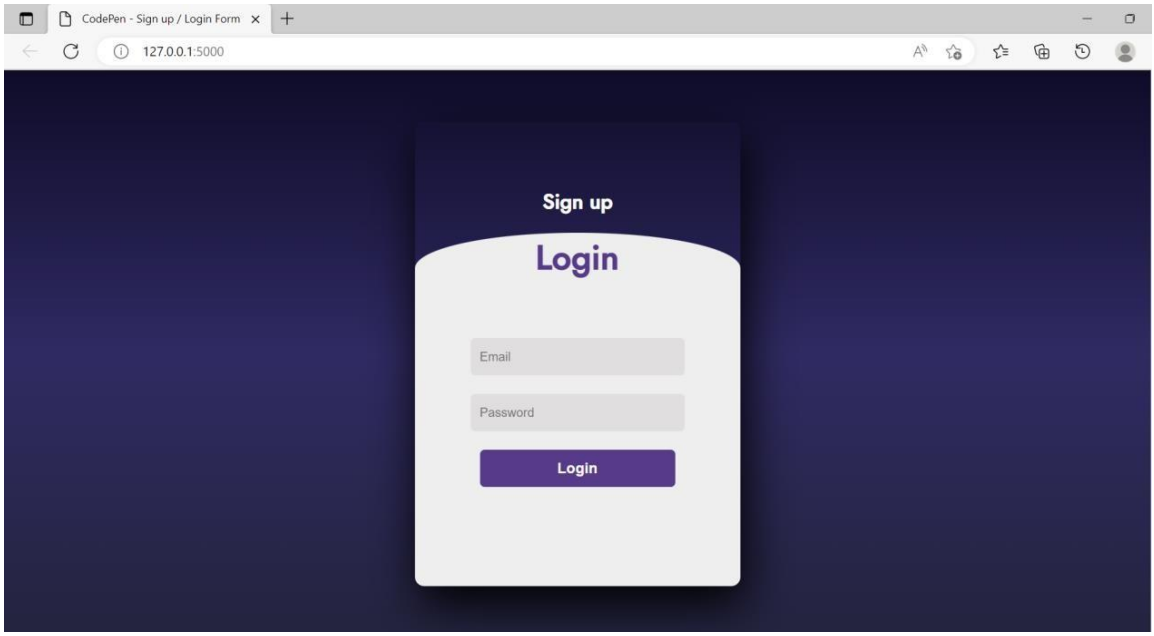
Exception Reporting	9	0	0	9
Final Report Output	4	0	0	4
Version Control	2	0	0	2

9. RESULTS

9.1 Performance Metrics






CodePen - Sign up / Login Form
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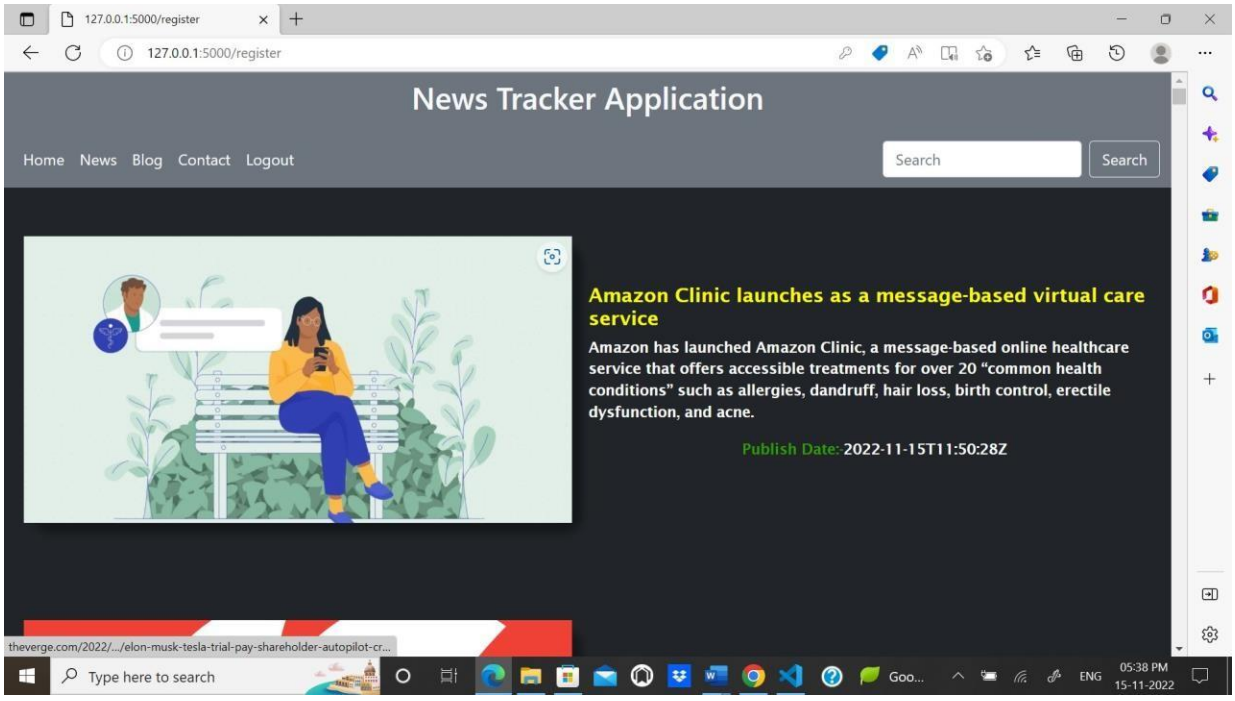
Sign up
Login
Email
Password
Login


127.0.0.1:5000/register
News Tracker Application
Home News Blog Contact Logout
Search
Search
Amazon Clinic launches as a message-based virtual care service
Amazon has launched Amazon Clinic, a message-based online healthcare service that offers accessible treatments for over 20 “common health conditions” such as allergies, dandruff, hair loss, birth control, erectile dysfunction, and acne.
Publish Date:-2022-11-15T11:50:28Z
theverge.com/2022/.../elon-musk-tesla-trial-pay-shareholder-autopilot-cr...
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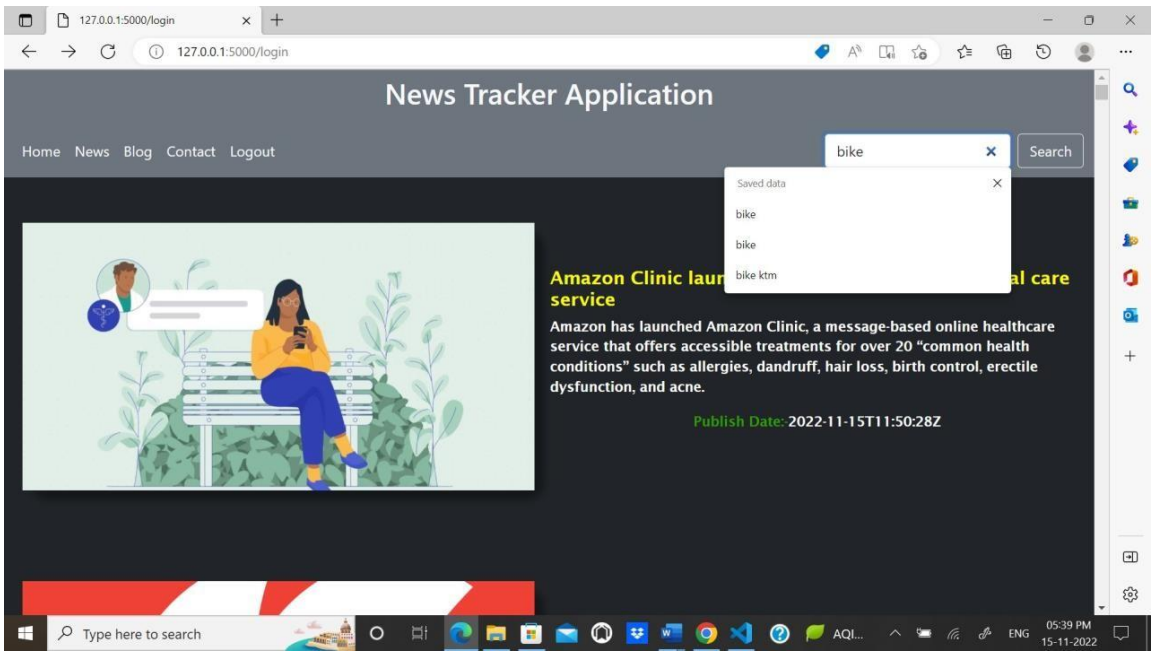

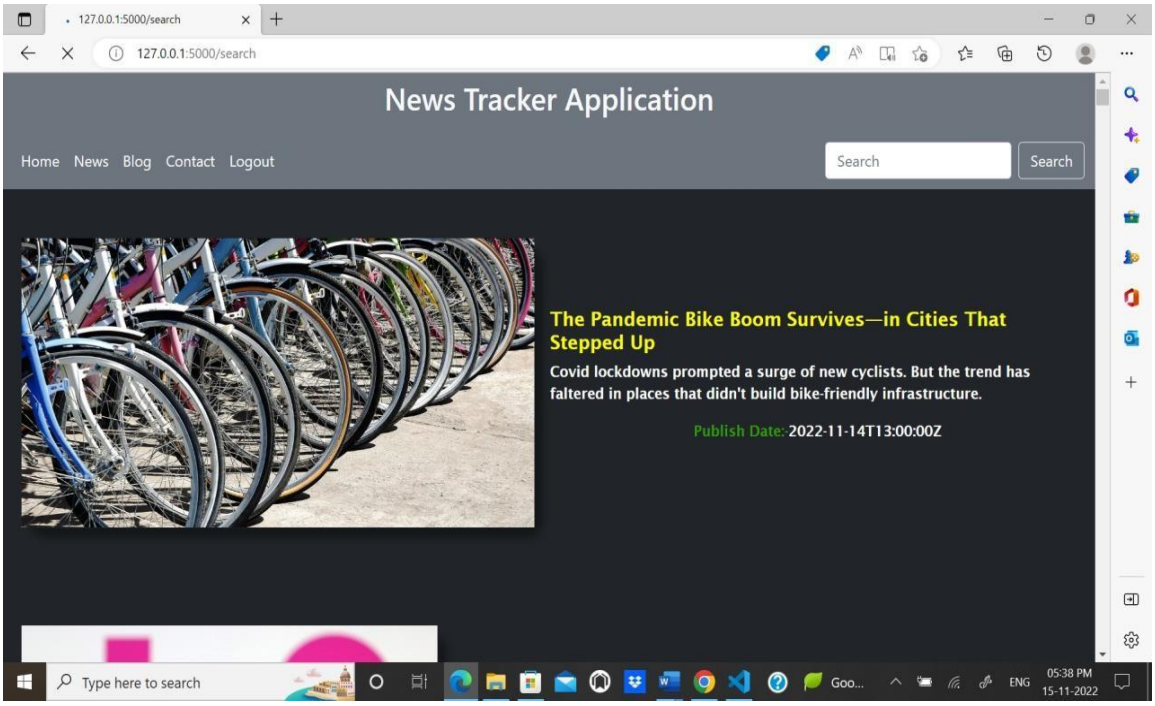

10.ADVANTAGES & DISADVANTAGES

ADVANTAGES

- Alltrendingnewswillbedisplayedinaorderlymanner.
- Wecancustomizethetopicwhichweareinterestedandmakethemdisplay
- Theuserexperiencearequite simpleandfriendly

DISADVANTAGES

- Samenewswhichispublishedindifferentwebsitescanbedisplayed.
- DelayresponseofnewsApicanmakethenewscollapse

11.CONCLUSION

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

12.FUTURE SCOPE

Infuture,weplannedtoimplementthisprojectinlargescalewhichwillbehelpfulan dusedbyallthepeople.

13.APPENDIX

Source Code

```
fromcloudant.errorimportCloudantException
fromcloudant.resultimportResult, ResultByKey
fromflaskimportFlask, render_template, request
fromnewsapiimportNewsApiClient

serviceUsername="50ab9a31-993d-4eaf-abf1-21c6f737b08c-bluemix"
servicePassword="6864bc1c41f5701310846a0a80700140c138e7c82b8c7f678ce5ab877f8b90b9"
serviceURL="https://50ab9a31-993d-4eaf-abf1-21c6f737b08c-
bluemix:6864bc1c41f5701310846a0a80700140c138e7c82b8c7f678ce5ab877f8b90b9@50ab9a31-
993d-4eaf-abf1-21c6f737b08c-bluemix.cloudantnosqldb.appdomain.cloud"

client=Cloudant(serviceUsername, servicePassword, url=serviceURL)
client.connect()

app=Flask(__name__)

@app.route("/news")
defnews():
api_key='4f625485702d4929a546bcf4eb9d5c79'

newsapi=NewsApiClient(api_key=api_key)

top_headlines=newsapi.get_top_headlines(sources="the-verge")
all_articles=newsapi.get_everything(sources="the-verge")

t_articles=top_headlines['articles']
a_articles=all_articles['articles']
```

```
news= []
desc= []
img= []
p_date= []
url= []

foriinrange (len(t_articles)):
main_article=t_articles[i]

news.append(main_article['title'])
desc.append(main_article['description'])
img.append(main_article['urlToImage'])
p_date.append(main_article['publishedAt'])
url.append(main_article['url'])

contents=zip( news,desc,img,p_date,url)

news_all= []
desc_all= []
img_all= []
p_date_all= []
url_all= []

forjinrange(len(a_articles)):
main_all_articles=a_articles[j]

news_all.append(main_all_articles['title'])
desc_all.append(main_all_articles['description'])
img_all.append(main_all_articles['urlToImage'])
p_date_all.append(main_all_articles['publishedAt'])
url_all.append(main_article['url'])

all=zip( news_all,desc_all,img_all,p_date_all,url_all)

returnrender_template('home.html',all=all)

@app.route("/search",methods = ['POST', 'GET'])
defsearchFunct():
inputText=request.form['nm']
api_key='4f625485702d4929a546bcf4eb9d5c79'

newsapi=NewsApiClient(api_key=api_key)

top_headlines=newsapi.get_top_headlines(sources="bbc-news")
all_articles=newsapi.get_everything(q=inputText)

t_articles=top_headlines['articles']
a_articles=all_articles['articles']

news= []
desc= []
img= []
p_date= []
url= []

foriinrange (len(t_articles)):
main_article=t_articles[i]

news.append(main_article['title'])
desc.append(main_article['description'])
img.append(main_article['urlToImage'])
p_date.append(main_article['publishedAt'])
url.append(main_article['url'])

contents=zip( news,desc,img,p_date,url)
```

```
news_all= []
desc_all= []
img_all= []
p_date_all= []
url_all= []

forjinrange(len(a_articles)):
main_all_articles=a_articles[j]

news_all.append(main_all_articles['title'])
desc_all.append(main_all_articles['description'])
img_all.append(main_all_articles['urlToImage'])
p_date_all.append(main_all_articles['publishedAt'])
url_all.append(main_article['url'])

all=zip( news_all,desc_all,img_all,p_date_all,url_all)

returnrender_template('home.html', all=all)

defaddNewUser(userName,userEmail,userPassword):
jsondata= {}
jsondata["userName"] =str(userName)
jsondata["userEmail"] =str(userEmail)
jsondata["userPassword"] =str(userPassword)

myDataBase=client['database1']
newDocument=myDataBase.create_document(jsondata)


defauthenticate(userName,userEmail):
myDataBase=client['database1']
result_collection=Result(myDataBase.all_docs, include_docs=True)
fordatainresult_collection:

ifdata['doc']['userName'] ==str(userName):
returnTrue
ifdata['doc']['userEmail'] ==str(userEmail):
returnTrue
returnFalse

defauthenticateLogin(userEmail,userPassword):
myDataBase=client['database1']
result_collection=Result(myDataBase.all_docs, include_docs=True)

fordatainresult_collection:
ifdata['doc']['userPassword'] ==str(userPassword) anddata['doc']['userEmail']
==str(userEmail):
returnTrue
returnFalse

@app.route("/login",methods = ['POST', 'GET'])
defloginUser():

userEmail=request.form.get("email")
userPassword=request.form.get("pswd")


if(authenticateLogin(userEmail,userPassword)):
returnnews()
returnrender_template("index.html")

@app.route("/register",methods = ['POST', 'GET'])
defregisterUserData():
userName=request.form.get("un")
userEmail=request.form.get("ue")
```

```
userPassword=request.form.get("up")

print(userEmail,userName,userPassword)
if(authenticate(userName=userName,userEmail=userEmail)):
returnrender_template("index.html")
addNewUser(userName,userEmail,userPassword)
returnnews()

@app.route("/")
defhome():
returnrender_template("index.html")

@app.route("/contact")
defhh():
returnrender_template("contact.html")

if__name__=='__main__':
app.r
un(debug=True)
Footer
```

GitHub & Project Demo Link

https://github.com/IBM-EPBL/IBM-Project-40878-1660636900/blob/main/Final%20Deliverables/News%20Tracker/Project%20Execution/News%20tracker_compress_1.mp4