NEWS TRACKER APPLICATION

1. INTRODUCTION

1.1 PROJECT OVERVIEW:

News is one of the primary source of gaining information about the actions and events that happen all around. It may be an event that happened in the past, happening now or going to happen in the future. In the present days where there is a rapid increase in the development and adaptability of technologies throughout all the demographic of people, it is necessary to provide news in such a way that it is interconnected with the current technological trends. 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.

Digital news continues to evolve, encouraged by a various innovations in recent time, from groundbreaking new technologies like virtual reality and automated reporting to experiments on social platforms that have altered campaign coverage. Topic detection and tracking is challenging topic in information retrieval technology that can be used in the text mining. In topic detection we finding the most important topics in a collection of news articles. Our approach combines a variety of learning techniques. Topic detection is an unsupervised task and topic tracking is supervised task. We are going to use agglomerative clustering to create

topic clusters and KNN classifier for tracking topics. To identify the serious news, we identify the clusters that fall into same category.

The corpus considered the news from a large number of internet news sites from across the world like Times of India and CNN, and of various subscription news wires. Thus the collection of different news from different source has same events. Newspapers normally receive the news from various news agencies with very few changes. Thus the corpus of news articles contains the same events written by different journalists which must be eliminated from the collection.

1.2 PURPOSE:

This will help the users to share news on various platforms such as Twitter and Face book. This will not only give an amazing user experience and also will also increase the views. A news application is a big interactive database that tells a news story. Think of it like you would any other piece of journalism. It just uses software instead of words and pictures.

LITERATURE SURVEY

2.1 EXISTING PROBLEM:

News break is a popular website to read ongoing and past news via the internet browsers. The website works by aggregating news from various sources and presents them in a likeable manner for the users to read it. The website also offers the ability for users to sign up to the son said website and record their progress, manage profiles, no. of news read, bookmark news, commenting on news ends and so on.

S.	Paper Title	Author(s)	Month	Method/Implementa	Resource Link
No			/Year	tion technique(s)	
1	Exploring mobile news reading interactions for news app personalisati on	Marios Constantinide s, John Dowell, David Johson, Sylvain Malacria	August, 2015	 Identification of news reader types Interaction logging and classification study Deployment and data collection Predicting News reader types Adaptive UI 	(PDF) Exploringmobile news reading interactions for newsapp personalisation (researchgate.net)
2	Detection and Tracking in News Articles	Sagar Patel, Sanket Suthar,Sandip Patel,Neha Patel	March,20 15	 Pre- processing Tokenization Stemming/L emmization Vector Space Model Topic tracking 	(PDF) Topic Detectionand Tracking in NewsArticles(researchgate.n et)

3	Following the Fed with a NewsTrack er	Michael WilliamMcCrack en	January, 2012	The paper is not a technical paper but is essentially a statistical paper on how should one conclude whether the data have comein stronger, weaker or as expected. Thisis based on the CitiGroup U.S Economic Surprise Index.	(PDF) Following theFed with a NewsTracker(researchgate. net)
4	An End-to- end Weakly- supervised News Aggregation Framework	Xijin Tang, Xiaohui Huang	June, 2022	and temporal topic relationships. This paper	An End-to-end Weakly- supervised News Aggregation Framework Request PDF (researchgate.net)

		manual tagging. Subsequently, we utilize LDA to generate the topics and obtain the signal value of each topic based on the topic signal detection function. Finally, we establish the	

2.2 REFERENCES:

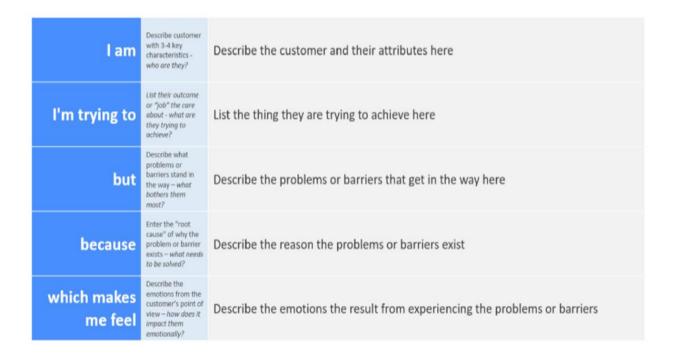
- 1. Kumar: Text Data Pre-processing and Dimensionality Reduction Techniques for Document Clustering Sri Sivani College of Engineering Sri Sivani College of Engineering, vol. 1, no. 5, pp. 1–6 (2012)
- 2. Saha, Ankan, and Vikas Sindhwani: Learning evolving and emerging topics in social media: a dynamic nmf approach with temporal regularization. In Proceedings of the fifth ACM international conference on Web search and data

mining, pp. 693-702. ACM (2012)

- 3. Acun, A. Ba, O. Ekin, M. İ. Saraç, and F. Can: Topic Tracking Using Chronological Term Ranking, vol. 25 (2011)
- 4. Pouliquen, R. Steinberger, C. Ignat, E. Käsper, and I. Temnikova: Multilingual and cross-lingual news topic tracking (1998)
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- 6. Aksoy, F. Can, and S. Kocberber: Novelty Detection for Topic Tracking, vol. 63, no. 4, pp. 777–795 (2012)
- 7. Juha Makkonen : Semantic Classes in Topic Detection and Tracking (2009)
- 8. Cieri, D. Graff, M. Liberman, N. Martey, and S. Strassel: Large, Multilingual, Broadcast News Corpora For Cooperative Research in Topic Detection And Tracking: The TDT-2 and TDT-3 Corpus Efforts, no. January 1998 (1999)
- 9. Eichmann, David, Miguel Ruiz, Padmini Srinivasan, Nick Street, Chris Culy, and Filippo Menczer: A cluster-based approach to tracking, detection and segmentation of broadcast news. In Proceedings of the DARPA Broadcast News Workshop, pp. 69-76. (1999).
- 10. Perez-Tellez, Fernando, David Pinto, John Cardiff, and Paolo Rosso: Clustering weblogs on the basis of a topic detection method. In Mexican Conference on Pattern Recognition, pp. 342-351. Springer Berlin Heidelberg (2010)

2.3 PROBLEM STATEMENT DEFINITION:

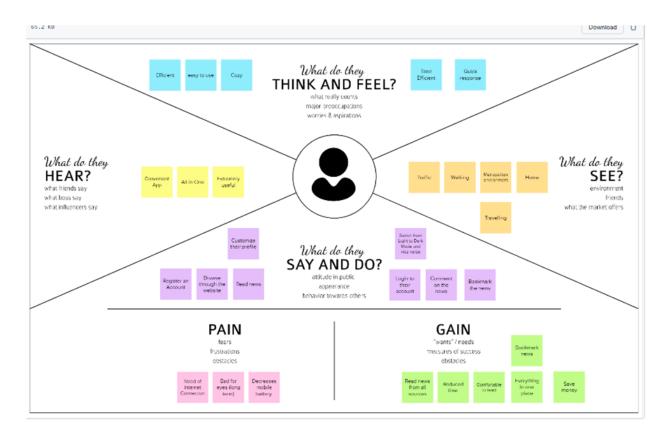
- Create a problem statement to understand your customer's point of view. The
 Customer Problem Statement template helps you focus on what matters to
 create experiences people will love.
- A well-articulated customer problem statement allows you and your team to find the ideal solution for the challenges your customers face. Throughout the process, you'll also be able to empathize with your customers, which helps you better understand how they perceive your product or service.





IDEATION & PROPOSED SOLUTION

3.1 EMPATHY MAP CANVAS:

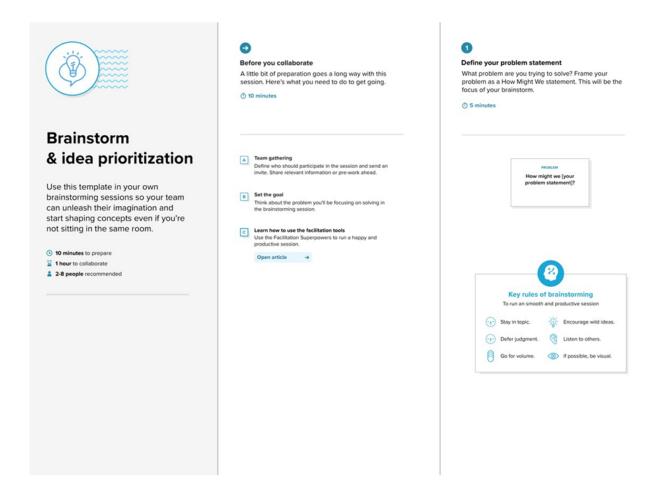


3.2 IDEATION & BRAINSTORMING:

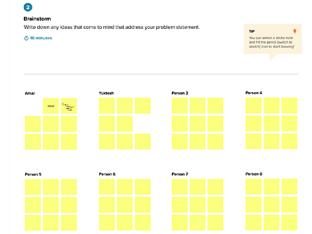
- Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate,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

Step-1: Team Gathering, Collaboration and Select the Problem Statement



STEP-2: BRAINSTORM, IDEA LISTING AND GROUPING





Group ideas
Take turns sharing your ideas while clustering similar or related notes as you go.
In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger
than six stocky notes, my and see if you and breek it up into smaller sub-groups.



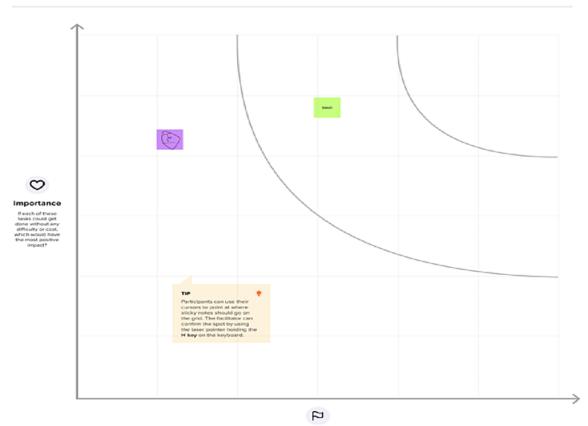
STEP-3: IDEA PRIORITIZATION



Prioritiza

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

① 20 minutes



Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)

3.3 PROPOSED SOLUTION:

Project team shall fill the following information in proposed solution template.

S.N	PARAMETER	DESCRIPTION
0.		
1.	Problem Statement	Forest fires are considered as one of the most
	(Problem to be solved)	widespread hazards in a forested landscape.
		They have a serious threat to forest and its
		flora and fauna. Unplanned and abrupt forest
		fires are a major cause of forest degradation,
		while a controlled fire to manage and check the
		spread of unwanted forest fires serves as the
		action to improve the forest. So therefore,
		we've to detect prevention measure which
		should be taken to identify the fire prone areas
		and the tools which needed to be developed to
		minimize the loss and as well as implement
		forest fire committee to workfor the reduction
		of damage caused. A forest fire risk prediction
		algorithm, based on support vector machines,
		is presented. The algorithm depends onprevious
		weather conditions in order to predict the fire
		hazard level of a day.

2. I	Idea / Solution description	
		Our solution aims at collecting the vast range of dataset to test and train the model regularly by
		using CNN where the system can detect
		immediately if any ignition of fire is found,
		where the video can be surveyed by satellite.
		Then Cloudant DB is brought to use where the
		large amount of data is stored and fetched
		which acts as a server. Open CV acts as a tool
		for processing videos which are captured. To
		send alerts to forest committee Twilio API is
		used where alerts are passed on detection.
		Watson Assistant also a chatbot tool which
		can help you monitor if any guide is needed.
3.	Novelty / Uniqueness	Existing system uses electronic sensors to
		detect forest fire and smoke. The change in
		temperature indicates the presence of forest
		fire and smoke in a region which can be
		detected by the sensors using radiation heat. As
		forests are in remote area it's difficult for
		installation and maintenance of sensors. Our
		proposed system depends on using AI to make
		it cheaper and easier for the forest
		management. Accuracy and timely prediction
		using AI, CNN and API made it possible.
4.	Social Impact / Customer	Forest fires are dangerous for the existence of
5	Satisfaction	life as they carry wildlife and natural resources
		which gives life to various living bodies. Thus,
		fires are occurred expectedly or unexpectedly
		which has to be prevented as earlier as we can.
		Therefore, forest management should be active
		enough to be aware and keeping an eye to

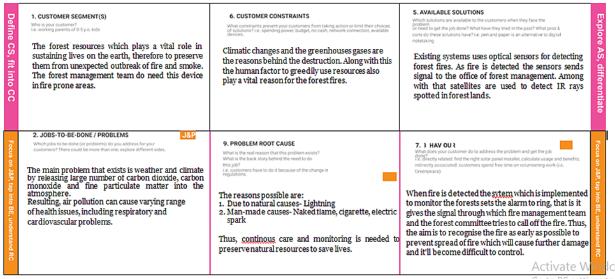
		check the forest fields regularly. As, what we save, saves us should be the
		social awareness to be brought to the people. The proposed solution meets the customer satisfaction needs as it provides immediate alerts as soon as any fire is spotted which helps the forest committee to take actions sooner.
5.	Business Model (Revenue Model)	A working model which gets the live captures from satellite needed to be implemented, where the camera can monitor continuously the forest area and a working trained model which can automatically show up if any spark, fire or smoke is detected. The model has to be trained widely using large datasets which can be fed into databases and feedbacks can be retrieved. Thus, video processing is the main motive for detection of forest fires, then forest management team should be present to monitor the live video and to get ready to prevent fire from further extension if any alert is produced from the trained model. Thus, this proposed model can be implanted at fire-prone area to provide quick responses and practice prevention methods.

6. Scalability of the Solution

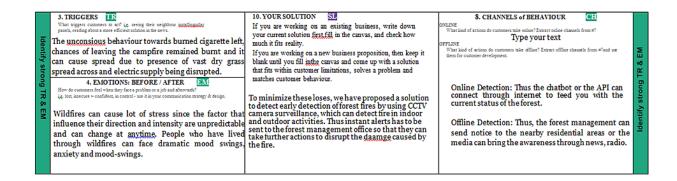
The device should be compatible with a minimum of 4GB

RAM to support usage of various software like **Anaconda Navigator** for python and data science. Testing and training undergo using latest technology like **Tensor Flow** and **Keras.** Importantly satellite needed to be accessed repeatedly via camera and the data generated have to processed by Open CV and further it should be connected with a alerting system and a messaging interface to send notifications.

3.4 PROBLEM SOLUTION FIT:



Go to PC settings to



4. REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENT:

Following are the functional requirements of the proposed solution.

FR	Functional Requirement	Sub Requirement (Story / Sub-Task)		
No.	(Epic)			
FR-1	User Registration	Registration through Form		
		Registration through Gmail		
		Registration through LinkedIN		
FR-2	User Confirmation	Confirmation via Email		
		Confirmation via OTP		

4.2 NON-FUNCTIONAL REQUIREMENT:

Following are the non-functional requirements of the proposed solution.

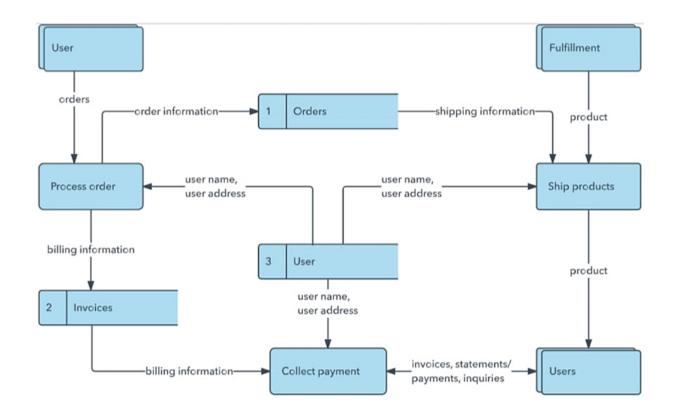
FR No.	Non-Functional	Description					
	Requirement						
NFR-1	Usability	Definition of Usability. Usability is a quality					
		attribute that assesses how easy user					
		interfaces are to use. The word "usability" also					
		refers to methods for improving ease-of-use					
		during the design process					
NFR-2	Security	Overall, security officers are tasked with					
		securing the premises and personnel by					
		staying on patrol, monitoring surveillance					
		equipment, performing building inspections,					
		guarding entry points, and verifying visitors.					
NFR-3	Reliability	Reliability refers to how consistently a method					
		measures something. If the same result can be					
		consistently achieved by using the same methods					
		under the same circumstances, the measurement					
		is considered reliable					
NFR-4	Performance	Performance is defined as acting, singing,					
		playing an instrument or otherwise showing a					
		craft to a group of people. An example of					
		performance is a symphony playing at a town					
		hall. The definition of performance is how					
		effective something or someone is at doing a					
		good job					

NFR-5	Availability	The definition of availability is whether			
		someone or something can be accessed or			
		used . An example of availability is when a			
		classmate can meet to discuss a project on a			
		certain date.			
NFR-6	Scalability	Scalability is the measure of a system's ability to			
		increase or decrease in performance and cost in			
		response to changes in application and system			
		processing demands.			

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

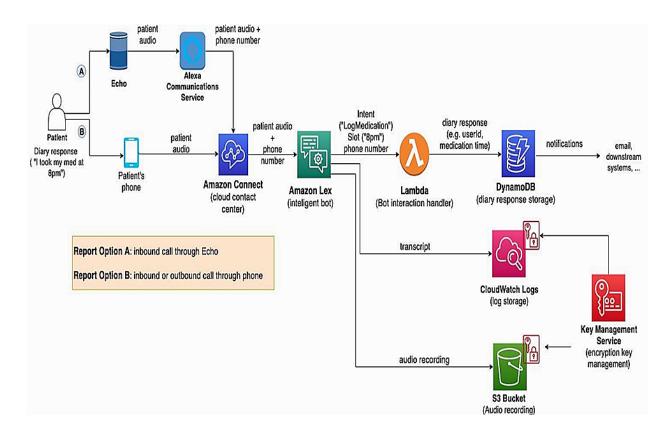


5.2 SOLUTION & TECHNICAL ARCHITECTURE:

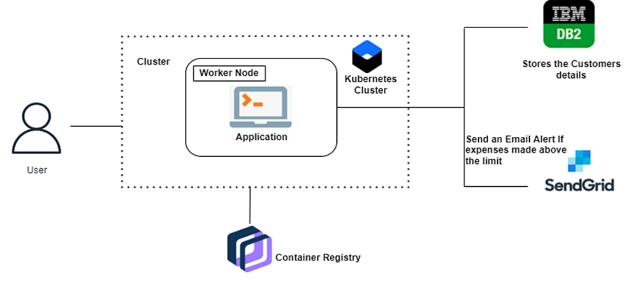
SOLUTION ARCHITECTURE:

Solution architecture is a complex process — with many sub-processes — that bridges the gap between business problems and technology solutions. Its goals are to:

- 1. Find the best tech solution to solve existing business problems.
- 2. Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- 3. Define features, development phases, and solution requirements.
- 4. Provide specifications according to which the solution is defined, managed, and delivered.



TECHNICAL ARCHITECTURE:



5.3 USER STORIES:

Use the below template to list all the user stories for the product.

User Type	Functional	User Story	User Story / Task	Acceptance criteria	Priority	Release
	Requirement	Number				
	(Epic)					
Customer	Registration	USN-1	As a user, I can register	I can access my account	High	Sprint-1
(Mobile			for the application by	/ dashboard		
user)			entering my email,			
			password, and			
			confirming my			
			password.			
		USN-2	As a user, I will receive	I can receive	High	Sprint-1
			confirmation email	confirmation email &		
			once I have registered	click confirm		
			for the application			
		USN-3	As a user, I can register	I can register & access	Low	Sprint-2
			for the application	the dashboard with		
			through Facebook	Facebook Login		
		USN-4	As a user, I can register		Medium	Sprint-1
			for the application			
			through Gmail			
	Login	USN-5	As a user, I can log into		High	Sprint-1
			the application by			
			entering email &			
			password			
	Dashboard					

6. PROJECT PLANNING & SCHEDULING

6.1 SPRINT PLANNING & ESTIMATION:

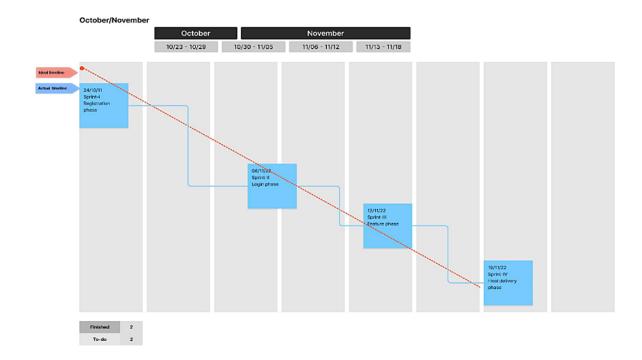
	Functional	User	User Story / Task	Story		Team
Sprint	Sprint Requirement			points	Priority	Members
	(Epic)	er				
			As a user, I can register for			
			the application by entering	20	High	Prathap. S
Sprint - 1	Registration	USN-1	my email,password, and			
			confirming			
			my password.			
			The user can see the			
Sprint- 2	Login	USN-2	news according to their	20	High	Tony Wilson
			interest			I
			The application will keep			
Sprint - 3	Features	USN-3	track of the news topics	20	Low	Yuvaraj. J
			that user is interested			
			mostly.			
			The app will customize			
Sprint -4	Final Delivery	USN-4	the news according to the	20	Medium	Raman. R
			user interest from the			
			data collected earlier.			

6.2 SPRINT DELIVERY SCHEDULE:

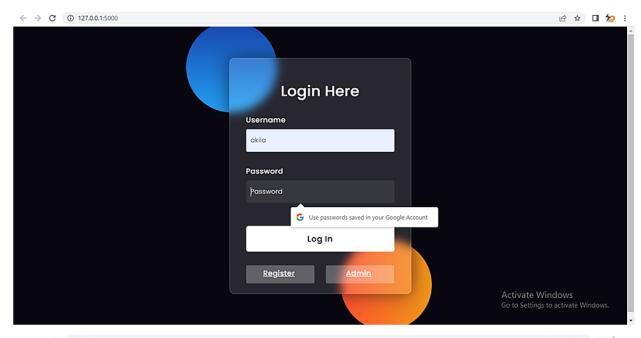
Sprint	Total	Duration	Sprint Start Date	Sprint End Date	Story Points	Sprint Release Date
	Story			(Planned)	Completed (as on	(Actual)
	Points				Planned End Date)	
Sprint-1	20	6 Days	25 Oct 2022	31 Oct 2022	20	31 Oct 2022
Sprint-2	20	6 Days	01 Nov 2022	06 Nov 2022	18	06 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	13 Nov 2022	20	13 Nov 2022
Sprint-4	20	6 Days	13 Nov 2022	19 Nov 2022	19	19 Nov 2022

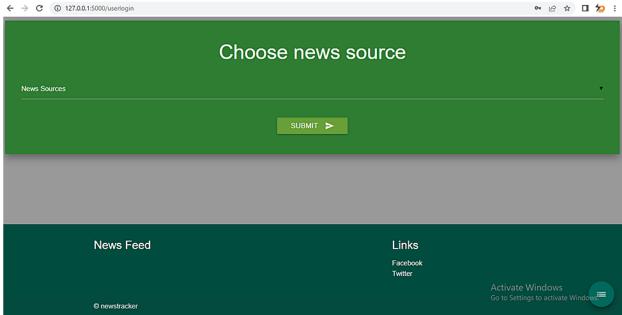
6.3 Reports from JIRA:

Burndown Chart:



7 CODING & SOLUTIONING:





8 TESTING

8. SYSTEM TESTING

The purpose of testing is to discover errors. Testing is the process of trying to discover every conceivable fault or weakness in a work product. It provides a way to check the functionality of components, sub-assemblies, assemblies and/or a finished product. It is the process of exercising software with the intent of ensuring that the Software system meets its requirements and user expectations and does not fail in an unacceptable manner. There are various types of test. Each test type addresses a specific testing requirement.

8.1 TYPES OF TESTS

8.1.1 Unit testing

Unit testing involves the design of test cases that validate that the internal program logic is functioning properly, and that program inputs produce valid outputs. All decision branches and internal code flow should be validated. It is the testing of individual software units of the application .it is done after the completion of an individual unit before integration. This is a structural testing, that relies on knowledge of its construction and is invasive. Unit tests perform basic tests at component level and test a specific business process, application, and/or system configuration. Unit tests ensure that each unique path of a business process performs accurately to the documented specifications and contains clearly defined inputs and expected results.

8.1.2 Integration testing

Integration tests are designed to test integrated software components to determine if they actually run as one program. Testing is event driven and is more concerned with the basic outcome of screens or fields. Integration tests demonstrate that although the components were individually satisfaction, as shown by successfully unit testing, the combination of components is correct and consistent. Integration testing is specifically aimed at exposing the problems that arise from the combination of components.

8.1.3 Functional test

Functional tests provide systematic demonstrations that functions tested are available as specified by the business and technical requirements, system documentation, and user manuals.

Functional testing is centered on the following items:

Valid Input : identified classes of valid input must be accepted.

Invalid Input : identified classes of invalid input must be rejected.

Functions : identified functions must be exercised.

Output : identified classes of application outputs must be exercised.

Systems/Procedures: interfacing systems or procedures must be invoked.

Organization and preparation of functional tests is focused on requirements, key functions, or special test cases. In addition, systematic coverage pertaining to identify Business process flows; data fields, predefined processes, and successive processes must be considered for testing. Before functional testing is complete,

additional tests are identified and the effective value of current tests is determined.

8.1.4 System Test

System testing ensures that the entire integrated software system meets requirements. It tests a configuration to ensure known and predictable results. An example of system testing is the configuration-oriented system integration test. System testing is based on process descriptions and flows, emphasizing pre-driven process links and integration points.

8.1.5 White Box Testing

White Box Testing is a testing in which in which the software tester has knowledge of the inner workings, structure and language of the software, or at least its purpose. It is purpose. It is used to test areas that cannot be reached from a black box level.

8.1.6 Black Box Testing

Black Box Testing is testing the software without any knowledge of the inner workings, structure or language of the module being tested. Black box tests, as most other kinds of tests, must be written from a definitive source document, such as specification or requirements document, such as specification or requirements document. It is a testing in which the software under test is treated, as a black box .you cannot "see" into it. The test provides inputs and responds to outputs without considering how the software works.

8.2 Unit Testing:

Unit testing is usually conducted as part of a combined code and unit test phase of the software lifecycle, although it is not uncommon for coding and unit testing to be conducted as two distinct phases.

8.2.1 Test strategy and approach

Field testing will be performed manually and functional tests will be written in detail.

8.2.2 Test objectives

- All field entries must work properly.
- Pages must be activated from the identified link.
- The entry screen, messages and responses must not be delayed.

8.2.3 Features to be tested

- Verify that the entries are of the correct format
- No duplicate entries should be allowed
- All links should take the user to the correct page.

8.3 Integration Testing

Software integration testing is the incremental integration testing of two or more integrated software components on a single platform to produce failures caused by interface defects. The task of the integration test is to check that components or software applications, e.g. components in a software system or – one step up – software applications at the company level – interact without error.

Test Results: All the test cases mentioned above passed successfully. No defects encountered.

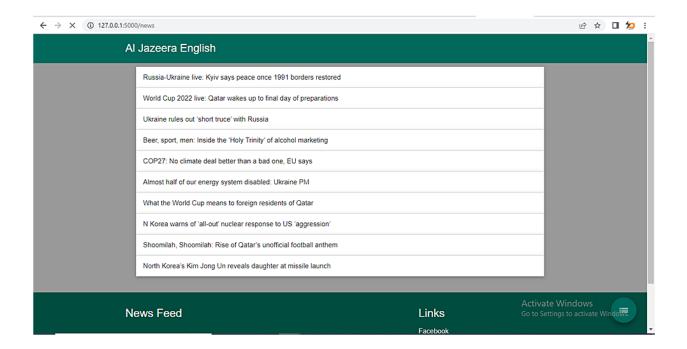
8.4 Acceptance Testing

User Acceptance Testing is a critical phase of any project and requires significant participation by the end user. It also ensures that the system meets the

functional requirements.

Test Results: All the test cases mentioned above passed successfully. No defects encountered.

9 RESULTS



10 ADVANTAGES & DISADVANTAGES

ADVANTAGES:

- Own Your Channels.
- Better User Experience.
- Higher Engagement.
- Push notifications.
- Revenue Opportunities.
- App Store Presence.

DISADVANTAGES:

- It CAN BE limited by time.
- It may rely too heavily on personalities, emotions, opinions... not facts.
- It can shortchange complex stories or avoid them altogether.

11 CONCLUSIONS

At the end conclusion of this paper is that, we have combined machine learning approaches. We would be applying system for sports domain, if time permits would check our approach on politics, entertainment, science and discovery, etc. We have used Agglomerative hierarchical clustering using average distance measure for topic detection and K-nearest neighbor classifier for topic Tracking. We select K Nearest Neighbor classifier for tracking because it gives better performance. As well as it makes the fewest assumptions of about terms, stories and efficient decisions surface for the tracking task. For future work we will detect and track broadcast news.

12 FUTURE SCOPES

We select K Nearest Neighbor classifier for tracking because it gives better performance. As well as it makes the fewest assumptions of about terms, stories and efficient decisions surface for the tracking task. For future work we will detect and track broadcast news.

13 APPENDIXES:
Source code:
import news
from flask import Flask, render_template, request, jsonify, session
import datetime
import re
import ibm_db
import pandas
import ibm_db_dbi
from sqlalchemy import create_engine

```
engine = create_engine('sqlite://',
            echo = False)
dsn_hostname
                                                 "19af6446-6171-4641-8aba-
9dcff8e1b6ff.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud"\\
dsn_uid = "wdn20062"
dsn_pwd = "2eFT80IyOuJQE3zV"
dsn_driver = "{IBM DB2 ODBC DRIVER}"
dsn_database = "bludb"
dsn_port = "30699"
dsn_protocol = "TCPIP"
dsn_security = "SSL"
dsn = (
  "DRIVER={0};"
  "DATABASE={1};"
  "HOSTNAME={2};"
```

```
"PORT={3};"
  "PROTOCOL={4};"
  "UID={5};"
  "PWD={6};"
   "SECURITY={7};").format(dsn_driver, dsn_database, dsn_hostname, dsn_port,
dsn_protocol, dsn_uid, dsn_pwd,dsn_security)
try:
  conn = ibm_db.connect(dsn, "", "")
  print ("Connected to database: ", dsn_database, "as user: ", dsn_uid, "on host: ",
dsn_hostname)
except:
  print ("Unable to connect: ", ibm_db.conn_errormsg() )
```

```
app = Flask(__name__)
app.config.from_object(__name__)
app.config['SECRET_KEY'] = '7d441f27d441f27567d441f2b6176a'
@app.route("/")
def homepage():
  return render_template('UserLogin.html')
@app.route("/alogin")
def alogin():
  return render_template('AdminLogin.html')
@app.route("/NewUser")
def NewUser():
```

```
@app.route("/RNewUser", methods=['GET', 'POST'])
def RNewUser():
  if request.method == 'POST':
    name1 = request.form['name']
    gender1 = request.form['gender']
    Age = request.form['age']
    email = request.form['email']
    address = request.form['address']
    pnumber = request.form['phone']
    uname = request.form['uname']
    password = request.form['psw']
    conn = ibm_db.connect(dsn, "", "")
    insertQuery = "INSERT INTO regtb VALUES ("" + name1 + "","" + gender1 +
```

return render_template('NewUser.html')

```
"',"" + Age + "',"" + email + "',"" + pnumber + "',"" + address + "',"" + uname + "',"" +
password + "")"
    insert_table = ibm_db.exec_immediate (conn, insertQuery)
    print(insert_table)
return render_template('userlogin.html')
@app.route("/AdminHome")
def AdminHome():
  conn = ibm_db.connect(dsn, "", "")
  pd_conn = ibm_db_dbi.Connection(conn)
  selectQuery = "SELECT * from regtb "
  dataframe = pandas.read_sql(selectQuery, pd_conn)
  dataframe.to_sql('Employee_Data',
            con=engine,
            if_exists='append')
```

```
# run a sql query
  data = engine.execute("SELECT * FROM Employee_Data").fetchall()
  return render_template('AdminHome.html', data=data)
@app.route("/userlogin", methods=['GET', 'POST'])
def userlogin():
  error = None
  if request.method == 'POST':
    username = request.form['uname']
    password = request.form['password']
    session['uname'] = request.form['uname']
    conn = ibm_db.connect(dsn, "", "")
    pd_conn = ibm_db_dbi.Connection(conn)
      selectQuery = "SELECT * from regtb where uname="" + username + "" and
```

```
password="" + password + """
    dataframe = pandas.read_sql(selectQuery, pd_conn)
    if dataframe.empty:
      data1 = 'Username or Password is wrong'
      return render_template('goback.html', data=data1)
    else:
       print("Login")
       selectQuery = "SELECT * from regtb where uname="" + username + "" and
password="" + password + """
      dataframe = pandas.read_sql(selectQuery, pd_conn)
       dataframe.to_sql('Employee_Data',
             con=engine,
             if_exists='append')
```

```
# run a sql query
      print(engine.execute("SELECT * FROM Employee_Data").fetchall())
           return render template('index.html', data=engine.execute("SELECT *
FROM Employee_Data").fetchall())
@app.route("/adminlogin", methods=['GET', 'POST'])
def adminlogin():
  error = None
  if request.method == 'POST':
    username = request.form['uname']
    password = request.form['password']
    conn = ibm_db.connect(dsn, "", "")
    pd_conn = ibm_db_dbi.Connection(conn)
     selectQuery = "SELECT * from admintb where USERNAME="" + username
```

```
+ "' and PASSWORD="" + password + """
    dataframe = pandas.read_sql(selectQuery, pd_conn)
    if dataframe.empty:
       data1 = 'Username or Password is wrong'
      return render_template('goback.html', data=data1)
    else:
       print("Login")
       selectQuery = "SELECT * from regtb "
       dataframe = pandas.read_sql(selectQuery, pd_conn)
       dataframe.to_sql('Employee_Data', con=engine,if_exists='append')
      # run a sql query
       print(engine.execute("SELECT * FROM Employee_Data").fetchall())
     return render_template('AdminHome.html', data=engine.execute("SELECT *
FROM Employee_Data").fetchall())
```

```
@app.route('/news', methods=['POST'])

def submit_data():
    vals = request.form['news-source']
    id = vals.split('_')[0]
    name = vals.split('_')[1]
    articles = news.main(id)
    print(articles)
    return render_template('news.html', articles=articles, name=name)

if __name__ == '__main__':
    app.run(host="0.0.0.0")
```

```
{% extends 'layout.html' %} {% block body %}
<div class="row">
  <div class="center col s12">
    <div class="card green darken-3 hoverable">
       <div class="card-content white-text">
         <span class="center card-title"><h3>Choose news source</h3></span>
         <div class="row">
           <form action='/news' method="POST" class="col s12">
              <div class="row">
                <div class="input-field center">
                      <select id="news-source" name="news-source" required=""</pre>
class="initialized">
                     <option value="" disabled selected>News Sources
                          <option value="abc-news-au_ABC News (AU)">ABC
News (AU)</option>
                      <option value="al-jazeera-english_Al Jazeera English">Al
Jazeera English</option>
```

```
<option value="ars-technica_Ars Technica">Ars
Technica</option>
                                    <option value="associated-press_Associated</pre>
Press">Associated Press</option>
                                  <option value="bbc-news_BBC News">BBC
News</option>
                                   <option value="bbc-sport_BBC Sport">BBC
Sport</option>
                     <option value="bild_Bild">Bild</option>
                                                                      <option
value="bloomberg_Bloomberg">Bloomberg</option>
                       <option value="breitbart-news_Breitbart News">Breitbart
News</option>
                                      <option value="business-insider_Business</pre>
Insider">Business Insider</option>
                            <option value="business-insider-uk_Business Insider</pre>
(UK)">Business Insider (UK)
                     </option>
                     <option value="buzzfeed_Buzzfeed">Buzzfeed</option>
                     <option value="cnbc_CNBC">CNBC</option>
```

```
<option value="cnn_CNN">CNN</option>
```

<option value="daily-mail_Daily Mail">Daily

Mail</option>

<option value="der-tagesspiegel_Der Tagesspiegel">Der

Tagesspiegel</option>

<option value="die-zeit_Die Zeit">Die Zeit</option>

<option value="engadget_Engadget">Engadget</option>

<option value="entertainment-weekly_Entertainment</pre>

Weekly">Entertainment Weekly</option>

<option value="espn_ESPN">ESPN</option>

<option value="espn-cric-info_ESPN Cric Info">ESPN Cric

Info</option>

<option value="financial-times_Financial Times">Financial

Times</option>

<option value="focus_Focus">Focus</option>

<option value="football-italia_Football Italia">Football

Italia</option>

<option value="fortune_Fortune">Fortune</option>

<option value="four-four-</pre>

two_FourFourTwo">FourFourTwo</option>

```
<option value="fox-sports_Fox Sports">Fox
Sports</option>
                         <option value="google-news_Google News">Google
News</option>
                                                                 <option
value="gruenderszene_Gruenderszene">Gruenderszene</option>
                          <option value="hacker-news_Hacker News">Hacker
News</option>
                                                                 <option
value="handelsblatt_Handelsblatt">Handelsblatt</option>
                   <option value="ign_IGN">IGN</option>
                                                                 <option
value="independent_Independent">Independent</option>
                   <option value="mashable_Mashable">Mashable
                   <option value="metro_Metro">Metro</option>
                   <option value="mirror_Mirror">Mirror</option>
                               <option value="mtv-news_MTV News">MTV
News</option>
                       <option value="mtv-news-uk_MTV News (UK)">MTV
News (UK)</option>
```

```
<option value="national-geographic_National</pre>
```

Geographic">National Geographic</option>

<option value="new-scientist_New Scientist">New

Scientist</option>

<option

value="newsweek_Newsweek">Newsweek</option>

<option value="new-york-magazine_New York</pre>

Magazine">New York Magazine</option>

<option value="nfl-news_NFL News">NFL News

<option value="polygon_Polygon">Polygon</option>

<option value="recode_Recode">Recode</option>

<option value="reddit-r-all_Reddit /r/all">Reddit

/r/all</option>

<option value="reuters_Reuters">Reuters</option>

<option value="spiegel-online_Spiegel Online">Spiegel

Online</option>

<option value="t3n_T3n">T3n</option>

<option value="talksport_TalkSport">TalkSport</option>

<option

value="techcrunch_TechCrunch">TechCrunch</option>

```
<\!option\ value="techradar\_TechRadar">\!TechRadar<\!/option>
```

<option value="the-economist_The Economist">The

Economist</option>

 $<\!\!\!\text{option value} = \!\!\!\!\text{"the-guardian-au_The Guardian (AU)"} > \!\!\!\!\text{The}$

Guardian (AU)</option>

<option value="the-guardian-uk_The Guardian (UK)">The

Guardian (UK)</option>

<option value="the-hindu_The Hindu">The Hindu</option>

<option value="the-huffington-post_The Huffington</pre>

Post">The Huffington Post</option>

<option value="the-lad-bible_The Lad Bible">The Lad

Bible</option>

<option value="the-new-york-times_The New York</pre>

Times">The New York Times</option>

<option value="the-next-web_The Next Web">The Next

Web</option>

<option value="the-sport-bible_The Sport Bible">The Sport

Bible</option>

<option value="the-telegraph_The Telegraph">The

Telegraph</option>

<option value="the-times-of-india_The Times of India">The

```
Times of India</option>
                     <option value="the-verge_The Verge">The Verge</option>
                          <option value="the-wall-street-journal_The Wall Street</pre>
Journal">The Wall Street
                       Journal
                     </option>
                           <option value="the-washington-post_The Washington</pre>
Post">The Washington Post</option>
                     <option value="time_Time">Time</option>
                                  <option value="usa-today_USA Today">USA
Today</option>
                     <option value="wired-de_Wired.de">Wired.de</option>
                                  <option value="wirtschafts-woche_Wirtschafts</pre>
Woche">Wirtschafts Woche</option>
                   </select>
```

</div>

</div>

name="action">Submit<i class="material-icons

```
right">send</i></button>
            </form>
         </div>
       </div>
    </div>
  </div>
</div>
{% endblock %}
{% block script %}
<script src="{{ url_for('static', filename='select.js')}}"></script>
{% endblock %}
```