ANNA UNIVERSITY

VSB ENGINEERING COLLEGE, KARUR.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

IBM NALAIYA THIRAN

7th Semester

NEWS TRACKER APPPLICATION USING CLOUD

Submitted by,

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News Tracker Application

1.1 INTRODUCTION

Mobile app ecosystems are transforming patterns of news consumption. Until quite recently, reading the news was a niche use for smartphones [12], mostly for when users were ‘on the go’; now however, two in every three users of mobile devices in the US regularly access news and as many as one in five read in-depth news articles daily [2]; a similar picture is found in the UK [1]. This growth in mobile news access continues the migration of news consumers to the Internet.

1.2 Project overview

As news is increasingly accessed on smartphones and tablets, the need for personalizing news app interactions is apparent. We report a series of three studies addressing key issues in the development of adaptive news app interfaces. We first surveyed users’ news reading preferences and behaviour; analysis revealed three primary types of reader. We then implemented and deployed an Android news app that logs users’ interactions with the app. We used the logs to train a classifier and showed that it is able to reliably recognize a user according to their reader type. Finally we evaluated alternative, adaptive user interfaces for each reader type. The evaluation demonstrates the differential benefit of the adaptation for different users of the news app and the feasibility of adaptive interfaces for news apps.

1.3 Purpose

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.

2. LITERATURE SURVEY

2.1 Existing problem

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.

2.2 References

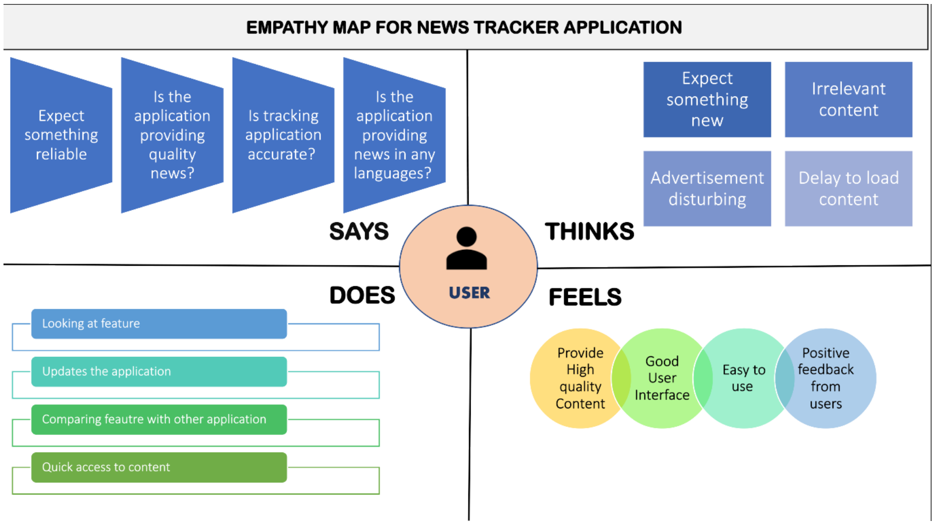
Like articles, websites,
blogs.
https://www.researchat
e.net/
https://www.ripublication.com/

2.3 Problem Statement Definition

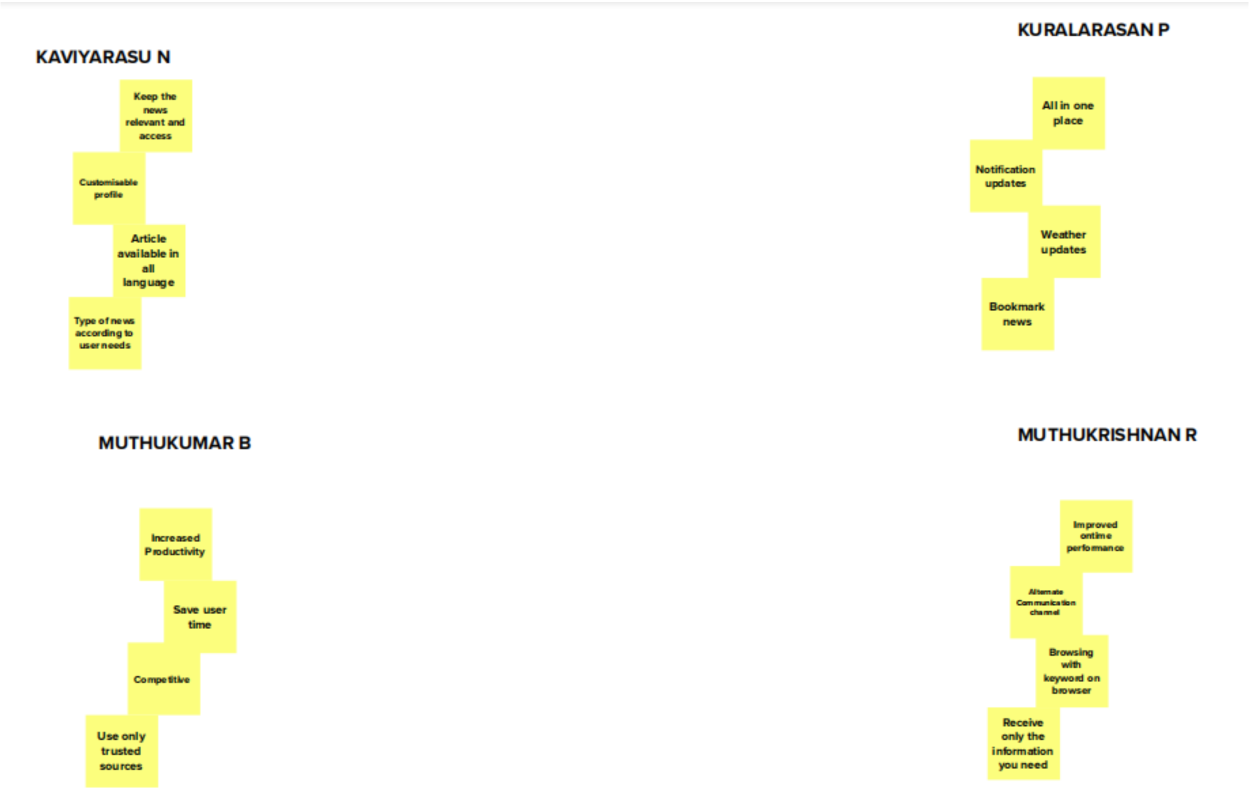
Physical newspapers are old fashioned in this digital era. They cost money to buy, can easily be damaged, limited amount of information, not flexible to modifications, poor quality. Fixing these in such a way can make physical newspapers become extinct and their use can be abolished. If the problem isn't solved, it would become a greater problem to integrate people to become digitally aware.The user needs a way to search about the news on topics he wants to.The issue occurs when the customer wants to read the news.The issue occurs when people try to access information i.e., during the usage. Accessing information is flawed through the usage of physical newspapers in the digital era.

3.IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas


EMPATHY MAP FOR NEWS TRACKER APPLICATION
Expect something reliable
Is the application providing quality news?
Is tracking application accurate?
Is the application providing news in any languages?
SAYS
Expect something new
Irrelevant content
Advertisement disturbing
Delay to load content
THINKS
USER
DOES
Looking at feature
Updates the application
Comparing feautre with other application
Quick access to content
FEELS
Provide High quality Content
Good User Interface
Easy to use
Positive feedback from users

3.2 Ideation & Brainstorming

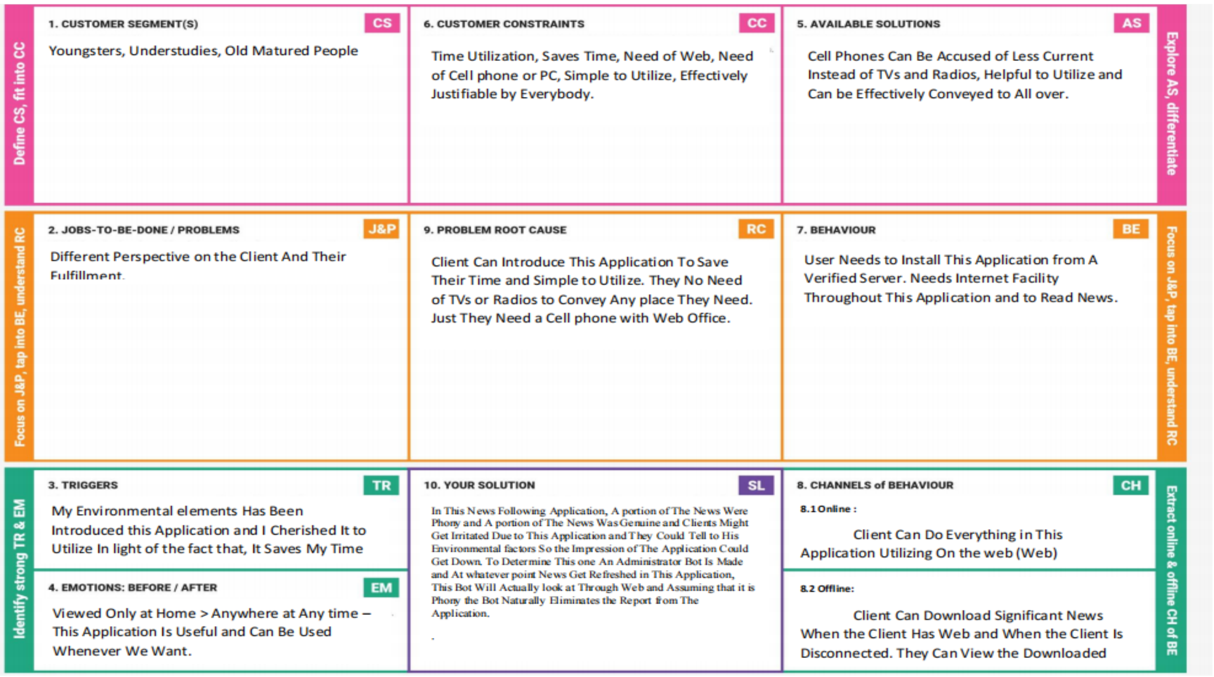

KAVIYARASU N
Keep the news relevant and access
Customisable profile
Article available in all language
Type of news according to user needs
KURALARASAN P
All in one place
Notification updates
Weather updates
Bookmark news
MUTHUKUMAR B
Increased Productivity
Save user time
Competitive
Use only trusted sources
MUTHUKRISHNAN R
Improved ontime performance
Alternate Communication channel
Browsing with keyword on browser
Receive only the information you need

3.3 Proposed Solution

S.NO	PARAMETERS	DESCRIPTION
1.	Problem statement (problems to be solved	News organizations whose mobile apps only provide users with their articles or videos are missing a big opportunity.An application, by definition, should be applied to perform a task, to solve a problem. Most news doesn’t do that. Rather than just feed readers recent stories you wrote about their problems; apps can provide tools and data that enable users to actually, solve their problems. When you solve problems, you get more loyal users and a chance to make more money.
2.	Idea/solution description	Start with an audience-first focus. Instead of thinking about what your organization produces (news articles) and how to fit that into an app, start from scratch and consider your audience. Who are they, and what problems do they face? Use your imagination, do some role playing with colleagues, and actually talk to some real people.
3.	Novelty/Uniqueness	Building mobile tools with data isn’t as easy as importing an XML feed of your latest headlines. But if you’re going to spend thousands of dollars developing a mobile app anyway, you might as well spend a little more to build a real application that helps solve problems and makes advertisers take notice.

4.	Social Impact/Customer satisfaction	These apps are all about solving problems and enabling the user to take an action — go to this bar, shop at that boutique, rent this apartment. These are the apps that build loyal audiences because they help people get things done instead of just presenting another thing, they feel obligated to do (keep up with news stories). That is valuable not only for users, but for advertisers as well.
5.	Business Model (Revenue)	Building mobile tools with data isn’t as easy as importing an XML feed of your latest headlines. But if you’re going to spend thousands of dollars developing a mobile app anyway, you might as well spend a little more to build a real application that helps solve problems and makes advertisers take notice.
6.	Scalability of the solution	News tracker application can handle data across machines and data that will not fit into memory. It supports clusters and can handle machine failures, rebuilding machines easily.

3.4 Problem Solution fit


Define CS, fit into CC
Explore AS, differentiate
Focus on J&P, tap into BE, understand RC
Focus on J&P, tap into BE, understand RC
Identify strong TR & EM
Extract online & offline CH of BE

1. CUSTOMER SEGMENT(S) CS

Youngsters, Understudies, Old Matured People

6. CUSTOMER CONSTRAINTS CC

Time Utilization, Saves Time, Need of Web, Need of Cell phone or PC, Simple to Utilize, Effectively Justifiable by Everybody.

5. AVAILABLE SOLUTIONS AS

Cell Phones Can Be Accused of Less Current Instead of TVs and Radios, Helpful to Utilize and Can be Effectively Conveyed to All over.

2. JOBS-TO-BE-DONE / PROBLEMS J&P

Different Perspective on the Client And Their Fulfillment.

9. PROBLEM ROOT CAUSE RC

Client Can Introduce This Application To Save Their Time and Simple to Utilize. They No Need of TVs or Radios to Convey Any place They Need. Just They Need a Cell phone with Web Office.

7. BEHAVIOUR BE

User Needs to Install This Application from A Verified Server. Needs Internet Facility Throughout This Application and to Read News.

3. TRIGGERS TR

My Environmental elements Has Been Introduced this Application and I Cherished It to Utilize In light of the fact that, It Saves My Time

4. EMOTIONS: BEFORE / AFTER EM

Viewed Only at Home > Anywhere at Any time – This Application Is Useful and Can Be Used Whenever We Want.

10. YOUR SOLUTION SL

In This News Following Application, A portion of The News Were Phony and A portion of The News Was Genuine and Clients Might Get Irritated Due to This Application and They Could Tell to His Environmental factors So the Impression of The Application Could Get Down. To Determine This one An Administrator Bot Is Made and At whatever point News Get Refreshed in This Application, This Bot Will Actually look at Through Web and Assuming that it is Phony the Bot Naturally Eliminates the Report from The Application.

.

8. CHANNELS of BEHAVIOUR CH

8.1 Online :

Client Can Do Everything in This Application Utilizing On the web (Web)

8.2 Offline:

Client Can Download Significant News When the Client Has Web and When the Client Is Disconnected. They Can View the Downloaded

4.REQUIREMENT ANALYSIS

4.1 Functional requirement

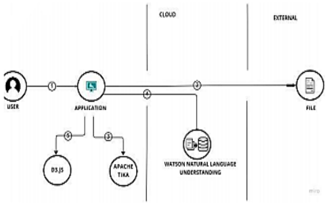
FR-1	User Installation	User can install the app from Google play store or from the website
FR-2	User Registration	Registration through Form Registration through Mail
FR-3	User Confirmation	Confirmation via Email Confirmation via OTP
FR-4	User Login	User should login the app with the user name and password

4.2 Non-functional requirement

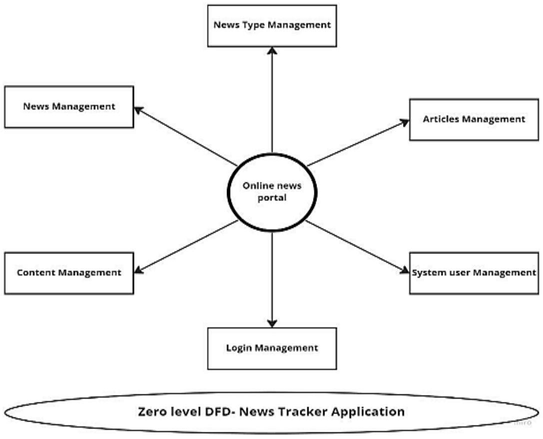
FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Everyone can understand the process of using the app easily by the commands given in the app.
NFR-2	**Security**	It is a more secured app. No fake news can be shared.
NFR-3	**Performance**	Performance of the app is very great
NFR-4	**Availability**	More sub categories are available

5.PROJECT DESIGN

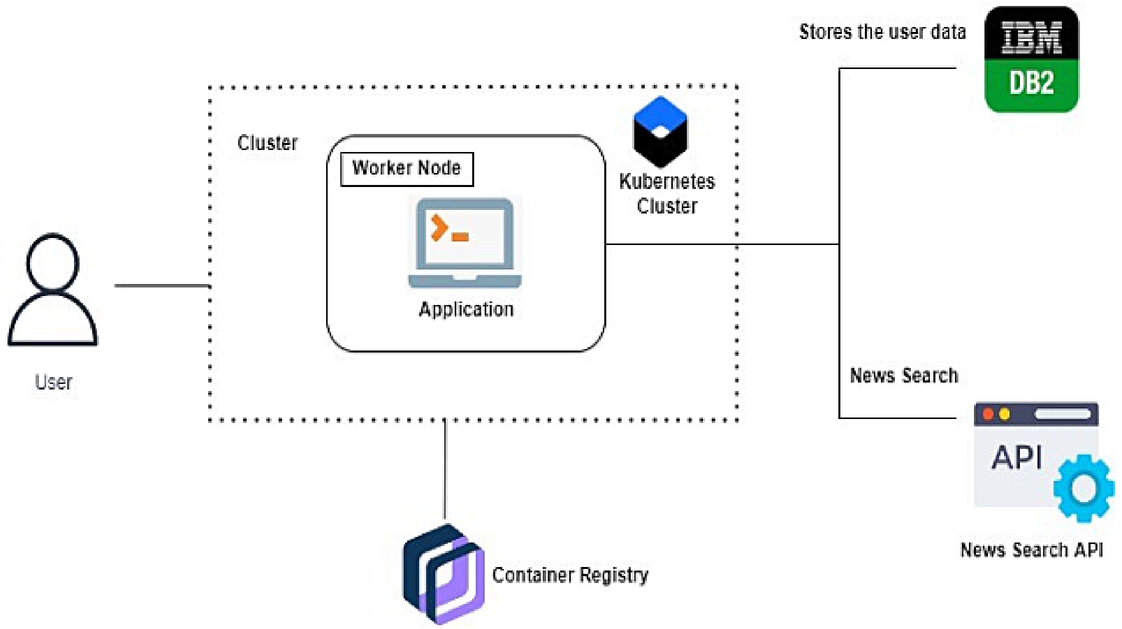
5.1 Dataflow diagram



1. User configures credentials for the Watson Natural Language Understanding service and starts the app.
2. User selects data file to process and load.
3. Apache Tika extracts text from the data file.
4. Extracted text is passed to Watson NLUfor enrichment.
5. Enriched data is visualized in the UI using the DS.js library.



5.2 Solution & Technical Architecture



5.3 User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Installation	USN-1	As a user, I installed the app for day-to-day update and feeds.	My app will be installed on home screen		
Customer (Mobile user)		USN-2	As a user, I can register for the application by entering my email, password, confirming my password and phone number.	I can access my account / dashboard	High	Sprint-1
		USN-3	As a user, I will receive conformation email once I have registered for the	I can receive conformation email &	High	Sprint-1
		USN-4	As a user, I can register for the application through Gmail	I can register & access the dashboard with Gmail account Login	Medium	Sprint-1
	Login	USN-6	As a user, I can log into the application by entering email & password	I can login to the official page	High	Sprint-1
	Dashboard	USN-7	Day to day news, feeds, categories, tech news and other updates	I can see all the news which I wanted	High	Sprint-1
Customer (Web user)	Browsing	USN-8	Enter the web site on the browser	I can even login through browser	Medium	Sprint-1

6.PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation

TITLE	DESCRIPTION	DATE
Literature Survey & Information Gathering	Literature survey on the selected project & gathering information by referring the, technical papers, research publications etc.	2 Sept 2022
Prepare Empathy Map	Prepare Empathy Map Canvas to capture the user Pains & Gains, Prepare list of problem statements	10 Sept 2022
Ideation and Brain Storming	List the by organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility & importance.	15 Sept 2022
Proposed Solution	Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc.	23 Sept 2022
Problem Solution Fit	Prepare problem solution fit document	28 Sept 2022

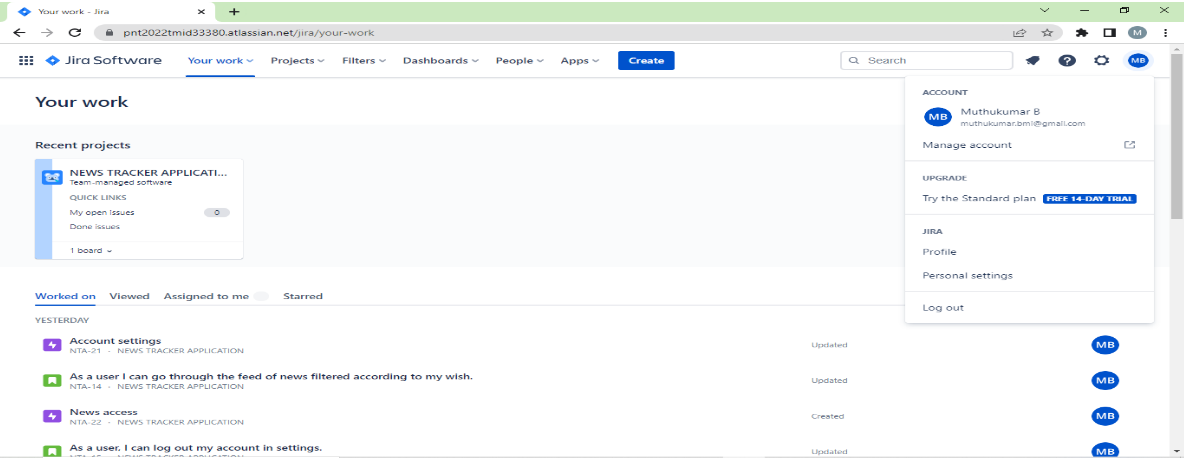
Solution Architecture	Prepare solution architecture document.	5 October 2022
Customer Journey	Prepare the customer journey maps to understand the user interactions & experiences with the application (entry to exit).	7 October 2022
Solution Requirement	Prepare the functional requirement document	8 October 2022
Data Flow Diagrams	Draw the data flow diagrams and submit for review.	10 October 2022
Technology Architecture	Prepare the technology architecture diagram.	15 October 2022
Prepare Milestone & Activity List	Prepare the milestones & activity list of the project.	26 October 2022
Project Development - Delivery of Sprint-1, 2,3 & 4	Develop & submit the developed code by testing it.	IN PROGRESS..

6.2 Sprint Delivery Schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	5	High	KAVIYARASU.N, MUTHUKUMAR .B
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	5	High	KAVIYARASU.N, MUTHUKUMAR.B
Sprint-1		USN-3	As a user, I can register for the application through Gmail	5	Medium	KAVIYARASU.N, MUTHUKUMAR.B
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password	5	High	KAVIYARASU.N, MUTHUKUMAR.B
Sprint-2	Dashboard	USN-5	As a user, I can enter the interests and choices of news I want to see for the first time in dashboard.	10	High	KURALARASAN.P KAVIYARASU.N
Sprint-2	Dashboard User Interface	USN - 11	Administrator designing the user interface	10	Medium	KURALARASAN.P KAVIYARASU.N
Sprint-3		USN-6	As a user I can go through the feed of news filtered according to my wish.	10	High	MUTHUKRISHNAN.R KAVIYARASU.N
Sprint-3		USN-7	As a user, I can log out my account in settings.	10	Medium	MUTHUKRISHNAN.R KAVIYARASU.N
Sprint-4		USN-8	As a user, I can update my interests and choice in account settings.	10	Medium	KURALARASAN.P MUTHUKUMAR.B
Sprint-4	Chat bot / Query	USN-9	Solve issues brought up by client	5	Medium	KURALARASAN.P MUTHUKUMAR.B
Sprint-4		USN-10	Roll out updates and bug fixes	5	High	KURALARASAN.P MUTHUKUMAR.B

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

6.3 Report from Jira



pnt2022tmid33380.atlassian.net/jira/your-work

Your work

Recent projects

NEWS TRACKER APPLICATI...
Team-managed software

My open issues 0

Done issues

YESTERDAY

Account settings
NTA-21 · NEWS TRACKER APPLICATION — Updated — MB

As a user I can go through the feed of news filtered according to my wish.
NTA-14 · NEWS TRACKER APPLICATION — Updated — MB

News access
NTA-22 · NEWS TRACKER APPLICATION — Created — MB

As a user, I can log out my account in settings. — Updated — MB

ACCOUNT

Muthukumar B
muthukumar.bmi@gmail.com

7.CODING AND SOLUTIONING

login.html

```
 <!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Log in</title>
    <link rel="Stylesheet" href="login.css">
</head>
<body>

            <section class="login">
        <div class="signup">
                         <form action="">
            <p style="color: white; font-size:30px;">New To News Tracking Application?</p>
            <button formaction="register1.html">Signup</button>
```

Dashboard.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Log in</title>
    <link rel="Stylesheet" href="login.css">
</head>
<body>

            <section class="login">
        <div class="signup">
                         <form action="">
            <p style="color: white; font-size:30px;">New To News Tracking Application?</p>
            <button formaction="register1.html">Signup</button>
<button class="submit" formaction="news.html">L o g i n</button>
```

```
                    </form>
                </div>
            </div>
            <div class="right">
                <div class="right-text">
                    <h2>News Tracker</h2>
                    <h5>All News In Your Hand!</h5>
             <h5>News available on anytime !!</h5>
                </div>

        </div>
    </section>
</body>
</html>
```

Dashboard.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>News Feed - All in One</title>
  <link rel="stylesheet" href="news.css">
</head>
<body>
  <nav>
    <div class="Logo">
     <ul>
      <img src="Logo.jpg" alt="LOGO" />
     </ul>
    </div>
      <div class="menu">
        <ul>
          <li> <a href="news.html"> Home</a></li>
          <li> <a href="#"> About</a></li>
```

```
                    <div class="user">
                        <img src="Profile Logo.png" alt="user" />
                        <div class="user-info">
                        </div>
                    </div>
                </ul>
            </div>
    </nav>
         <hr width="900%" style="border: 3px solid #f20f0f; margin-top: 10px;margin-bottom:
20px;">
    <div class="container">
        <div class="card">
          <div class="card-header">
                            <img src="https://images.hindustantimes.com/img/2022/11/14/550x309/Smog-
6_1668436436593_1668436436593_1668436491578_1668436491578.jpg" alt="rover" />
          </div>
          <div class="card-body">
                        <a href = "https://www.hindustantimes.com/india-news"><span class="tag tag-
purple">Weather</span></a>
            <h4>
                 <a href="https://www.hindustantimes.com/india-news/these-are-india-s-most-polluted-
cities-7-of-10-are-from-bihar-101668426703839.html" target=_blank> These are India's most
polluted cities. 7 of 10 are from Bihar</a>
            </h4>
            <p>
                        FGhaziabad fared better in the first half of November this year as the average air
quality index (AQI) levels have remained on the lower side compared to the last six years with
the least number of “severe” days during the first thirteen days of the current month.
            </p>
          </div>
        </div>
              <div class="card">
          <div class="card-header">
                                        <img src="https://c.ndtvimg.com/2022-09/3ln6tu7o_mamata-banerjee-
pti_625x300_08_September_22.jpg" alt="ballons" />
          </div>
          <div class="card-body">
            <a href = "https://www.ndtv.com/india"><span class="tag tag-teal">Politics</span></a>
            <h4>
                  <a href="https://www.ndtv.com/india-news/mamata-banerjee-apologises-for-trinamools-minister-comments-on-president-droupadi-murmu-beauty-is-not-about-how-you-look-3518867" target=_blank>Mamata Banerjee Apologises For Trinamool Minister's Comments On President</a>
            </h4>
            <p>
                    West Bengal BJP MLAs marched to the Raj Bhavan this afternoon in protest against the distasteful comments by Trinamool minister Akhil Giri on the President of India.

            </p>
          </div>
        </div>



        <div class="card">
          <div class="card-header">
            <img src="https://images.hindustantimes.com/img/2022/11/14/550x309/modi_in_bali_1668437713918_1668437719839_1668437719839.jfif" />
          </div>
          <div class="card-body">
                        <a href = "https://www.hindustantimes.com/india-news"><span class="tag tag-purple">India News</a>
            <h4>
                    <a href="https://www.hindustantimes.com/india-news/pm-modi-in-bali-for-g20-summit-bilateral-meetings-with-top-world-leaders-101668436708550.html" target=_blank>In Bali, PM Modi meets Indians, to attend G20 Summit with top world leaders</a>
            </h4>
            <p>
                    The two-day G20 Summit begins on Tuesday, and will be attended by US President Joe Biden and British Prime Minister Rishi Sunak among heads from 20 countries and the European Union who make up the group.
            </p>

          </div>
```

```
    </div>
    <div class="card">
      <div class="card-header">
        <img src="https://th-
i.thgim.com/public/incoming/yygqz6/article66110849.ece/alternates/FREE_1200/PTI10_18_202
2_000072B.jpg" alt="city" />
      </div>
      <div class="card-body">
        <a href = "Categories\inside-tn.html"><span class="tag tag-aas">Inside - TN</span></a>
        <h4>
          AIADMK Created By Cadres, No One Can Divide It: O Pannerselvam
        </h4>
        <p>
          Expelled All India Anna Dravida Munnetra Kazhagam (AIADMK) leader and former
chief minister of Tamil Nadu O Pannerselvam today said that AIADMK is an organization which
was created by cadres and it should function with unity.</p>

      </div>
    </div>
    <div class="card">
      <div class="card-header">
        <img src="https://images.hindustantimes.com/img/2022/10/11/550x309/Delhi-Weather-
Rain--4_1665414049445_1665414049445_1665455613808_1665455613808.jpg" alt="city" />
      </div>
      <div class="card-body">
        <a href = "Categories\weather360.html"><span class="tag tag-cyan">Weather
360°</span></a>
        <h4>
          Isolated Rains Over Rajasthan, Andhra, Karnataka; Tamil Nadu, Kerala In For
Thunderstorms
        </h4>
        <p>
          Widespread rains and thunderstorms with isolated heavy falls are likely over Andaman
and Nicobar Islands.Fairly widespread rainfall with thunderstorms may lash Tamil Nadu,
Puducherry and Karaikal.Dense fog is possible over Central India early in the morning.
</p>
```

```
          </div>
        </div>
              <div class="card">
          <div class="card-header">
            <img src="https://www.indiaspend.com/wp-content/uploads/620-Fire.jpg" alt="rover" />
          </div>
          <div class="card-body">
                 <a href = "Categories\trending today.html"><span class="tag tag-purple1">Trending Today</span></a>
                <h4><a href="https://www.ndtv.com/indians-abroad/9-indians-killed-in-maldives-fire-report-3506799#trendingnow" target=_blank>9 Indians Killed In Maldives Fire: Report</a></h4>
            <p>
                Officials said 10 bodies were recovered from the upper floor of a building destroyed in the fire, which swept through the cramped lodgings of foreign workers.At least 10 people were killed and several others injured Thursday when a fire swept through cramped lodgings of foreign workers in the Maldives capital Male, the fire service said.
            </p>
          </div>
        </div>
</body>
</html>
```

Forget.html

```
 <!DOCTYPE html>
<html>
<style>
            /*set border to the form*/
            h2{
                        color: aqua;
            }
            body{
                        background: linear-gradient(to bottom, rgba(0, 0, 0, 0.5) 0%, rgba(0, 0, 0, 0.5) 100%),              url("https://images.unsplash.com/photo-1498050108023-c5249f4df085?ixlib=rb-1.2.1&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w=872&q=80");
            }
```

```
form {
	border: 3px solid #f1f1f1;
}
/*assign full width inputs*/

input[type=text],
input[type=password] {
	width: 100%;
	padding: 12px 20px;
	margin: 8px 0;
	display: inline-block;
	border: 1px solid #ccc;
	box-sizing: border-box;
}
/*set a style for the buttons*/

button {
	background-color: #4CAF50;
	color: white;
	padding: 14px 20px;
	margin: 8px 0;
	border: none;
	cursor: pointer;
	width: 100%;
}
/* set a hover effect for the button*/

button:hover {
	opacity: 0.8;
}
/*set extra style for the cancel button*/

.cancelbtn {
	width: auto;
	padding: 10px 18px;
	background-color: #f44336;
}
/*centre the display image inside the container*/
```

```
    .imgcontainer {
        text-align: center;
        margin: 24px 0 12px 0;
    }
    /*set image properties*/

    img.avatar {
        width: 40%;
        border-radius: 50%;
    }
    /*set padding to the container*/

    .container {
        padding: 16px;
        color: aqua;
    }
    /*set the forgot password text*/

    span.psw {
        float: right;
        padding-top: 16px;
    }
    /*set styles for span and cancel button on small screens*/

    @media screen and (max-width: 300px) {
        span.psw {
            display: block;
            float: none;
        }
        .cancelbtn {
            width: 100%;
        }
    }
</style>

<body>

    <h2>Have you forgotten your Password</h2>
```

```
        <!--Step 1 : Adding HTML-->
        <form action="/" method="get">
                <div class="container">
                        <label><b>Email ID</b></label>
        <input type="text" placeholder="Enter your valid email address" name="mail id " required>

                        <button type="submit">Get OTP</button>

                </div>

                <div class="container" style="background-color:#f1f1f1">
                        <button type="button" class="cancelbtn">Cancel</button>
                </div>
        </form>

</body>

</html>
```

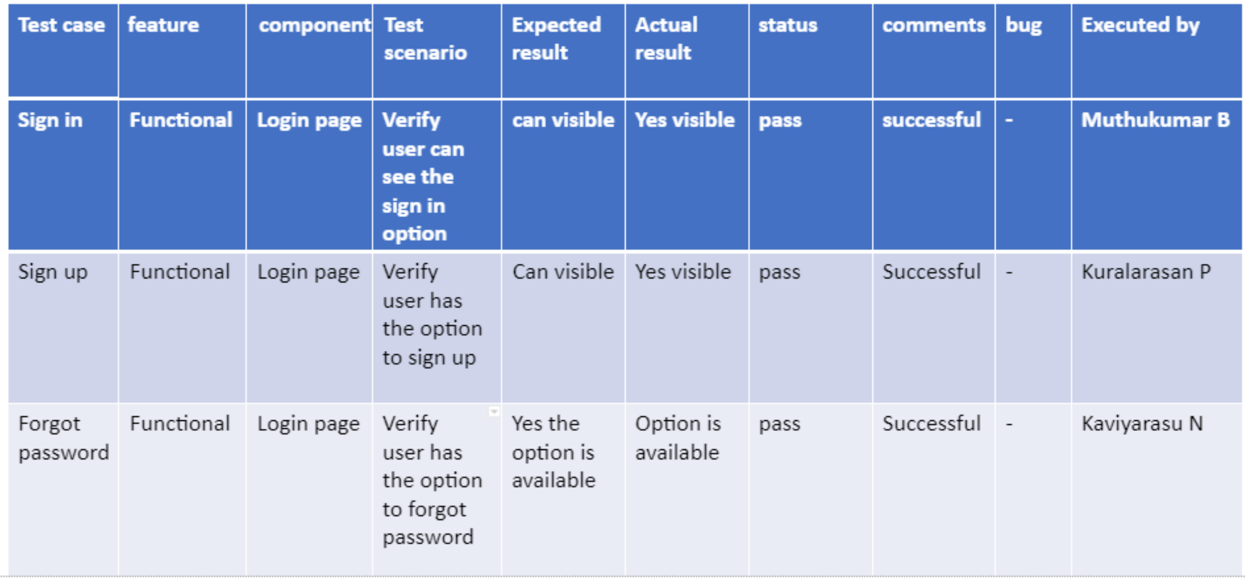
app.py

```
from glob import escape
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db


app = Flask(__name__)

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=8e359033-a1c9-4643-82ef-8ac06f5107eb.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=30120;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=llm42743;PWD=nFrTGszAPOQk3sAp","","")

@app.route('/')

def login():
   return render_template('signin.html')

@app.route('/signin.html',methods = ['POST'])

def getUser():
    if request.method == 'POST':
        user = request.form['uname']
        password = request.form['upwd']
        sql = "SELECT * FROM CUSTOMERS where Email = ?"
        stmt = ibm_db.prepare(conn, sql)
        email = user
        # Explicitly bind parameters
        ibm_db.bind_param(stmt, 1,user)
        ibm_db.execute(stmt)
        dictionary = ibm_db.fetch_assoc(stmt)
        pwd = dictionary["PASSWORD"]
        if password != pwd:
            return render_template('error.html')

        return render_template('base.html')


@app.route('/signup.html')

def putUser():
    return render_template('register1.html')

@app.route('/signup.html',methods = ['POST'])

def storedUser():
    if request.method == 'POST':
        fname = request.form['fname']
        lname = request.form['lname']
        mail = request.form['mail']
        npwd = request.form['npwd']
        cpwd = request.form['cpwd']

        res = fname + lname + mail + npwd + cpwd

        if npwd != cpwd:
            return render_template('register1.html')

         sql = "INSERT INTO customers (FirstName,LastName,Email,password,confirmpassword)
VALUES(?,?,?,?,?);"
```

```
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt, 1, fname)
        ibm_db.bind_param(stmt, 2, lname)
        ibm_db.bind_param(stmt, 3, mail)
        ibm_db.bind_param(stmt, 4, npwd)
        ibm_db.bind_param(stmt, 5, cpwd)
        ibm_db.execute(stmt)
    return render_template('login.html')
if __name__ == '__main__':

    # run() method of Flask class runs the application
    # on the local development server.
    app.run(debug=True)
```

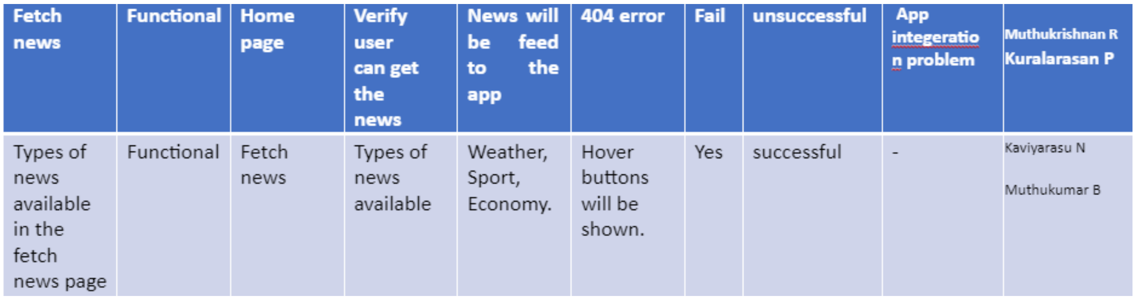
8.TESTING

8.1 Test cases



Test case	feature	component	Test scenario	Expected result	Actual result	status	comments	bug	Executed by
Sign in	Functional	Login page	Verify user can see the sign in option	can visible	Yes visible	pass	successful	-	Muthukumar B
Sign up	Functional	Login page	Verify user has the option to sign up	Can visible	Yes visible	pass	Successful	-	Kuralarasan P
Forgot password	Functional	Login page	Verify user has the option to forgot password	Yes the option is available	Option is available	pass	Successful	-	Kaviyarasu N

8.2 User Acceptance Tesing



Fetch news	Functional	Home page	Verify user can get the news	News will be feed to the app	404 error	Fail	unsuccessful	App integeration problem	Muthukrishnan R Kuralarasan P
Types of news available in the fetch news page	Functional	Fetch news	Types of news available	Weather, Sport, Economy.	Hover buttons will be shown.	Yes	successful	-	Kaviyarasu N Muthukumar B

Result:

News tracker application using cloud is developed and executed at the level of completed progress .

10.ADVANTAGES & DISADVANTAGES

Advantages:-

- In this app news is already categorization.
- Easily accessible and portable.
- Better user experience.
- Apps help you convert visitors to loyal readers.
- Minute by minute updates of news.
- This app helps you to get local news updates instantly.
- To explore and discover trending news and topics.
- News feeds for you based on your interest.

Disadvantages:-

- Some apps demand premium subscription from user.
- Occurance of Advertisment disturb the user.
- Sometimes the news gives brief information.
- Prevalence of fake and uncertain news can confuse the user lead to misconception.
- Fake news may mislead the readers.

11.CONCLUSION

We explored the feasibility of recognizing patterns of news reading interactions and evaluated three adaptive interface designs for different news reader types. We show that from their interaction log, a specific user can be recognized as one of three kinds. The reader types emerging from the online survey are well defined and distinct. The evaluation of the three variant interfaces suggests that different news reader types need different user interfaces. We have demonstrated a method for monitoring users' news reading behaviour and inferring news reader type from it. In the future we will further explore the design of adaptive interfaces, in order to be in a position to demonstrate a complete adaptive mobile news framework providing automatic personalisation of news apps.

12. FUTURE SCOPE

In the future we will further explore the design of adaptive interfaces, in order to be in a position to demonstrate a complete adaptive mobile news framework providing automatic personalisation of news apps.

13. APPENDIX

Source code

app.py

```
from glob import escape
from flask import Flask, render_template, request, redirect, url_for,
session import ibm_db
app = Flask(          name  )
#conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=824dfd4d-
99de- 440d-9991-
629c01b3832d.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=3
011
9;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID
=pss 83307;PWD=Lab47l4rodOvB2WE",",")
@app.rout
e('/')     def
login():
    return render_template('signin.html')
@app.route('/signin.html',methods =
['POST']) def getUser():
    if request.method ==
        'POST': user =
        request.form['uname']
        password = request.form['upwd']
        sql = "SELECT * FROM CUSTOMERS where Email
        = ?" stmt = ibm_db.prepare(conn, sql)
        email = user
        # Explicitly bind parameters
        ibm_db.bind_param(stmt,
        1,user) ibm_db.execute(stmt)
        dictionary =
        ibm_db.fetch_assoc(stmt) pwd =
        dictionary["PASSWORD"]
        if password != pwd:
            return
        render_template('error.html')
        return
        render_template('base.html')
@app.route('/signup.ht
ml') def putUser():
    return render_template('signup.html')
@app.route('/signup.html',methods =
['POST']) def storedUser():
    if request.method ==
        'POST': fname =
        request.form['fname']
        lname =
        request.form['lname'] mail
        = request.form['mail']
        npwd =
        request.form['npwd']
        cpwd =
        request.form['cpwd']
        res = fname + lname + mail + npwd +
        cpwd if npwd != cpwd:
            return render_template('signup.html')

        sql = "INSERT INTO customers
(FirstName,LastName,Email,password,confirmpassword) VALUES(?,?,?,?,?);"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt, 1, fname)
        ibm_db.bind_param(stmt, 2, lname)
        ibm_db.bind_param(stmt, 3, mail)
        ibm_db.bind_param(stmt, 4, npwd)
        ibm_db.bind_param(stmt, 5,
        cpwd) ibm_db.execute(stmt)
    return
render_template('signin.html') if
name== '    main  ':
    # run() method of Flask class runs the
    application # on the local development
    server. app.run(debug=True)
```

login.html

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head >
```

```
<meta charset="utf-8 " >
<meta name="viewport"
content="width=device-width,
initial-scale=1.0">
<title>Login Form |
CodingLab</title>
<link rel="stylesheet"
href="style.css">
<script
src="https://kit.fontawesome.c
om/a076d05399.js"></script>
</head >
<body >
<div class="container">
<div class="wrapper">
<div
class="title"><span>Login
Form</span></div>
<form action="#">
<div class="row">
<i class="fas fa-user"></i>
<input type="text"
placeholder="Email or Phone"
required>
</div >
<div class="row">
<i class="fas fa-lock"></i>
<input type="password"
placeholder="Password"
required> </div>
<div class="pass"><a
href="#">Forgot
```

```
password?</a></div>
<div class="row button">
<input type="submit"
value="Login">
</div >
<div class="signup-link">Not
a member? <a
href="#">Signup
now</a></div>
</form>
</div >
</div >
</body >
</html>
```

checkmail.py

```
from flask import request
from flask_restful import
Resource
from utils.dbQuery import
selectQuery

class CheckEmail(Resource):
    def post(self):
        data=request.json
        email=str(data["email"])

res=selectQuery("SELECT
email FROM USER WHERE
EMAIL=?",(email,))
        print(res)
        if(not res):
```

```
return{"status":True},200

return{"status":False},400
```

getnews.py

```
from random import random
from flask_restful import
Resource
from utils.cookieChecker
import token_required
from utils.dbQuery import
selectQuery
from utils.apiFetch import
apiData
import random
from utils.testData import
retArray


class Personal(Resource):
    @token_required
    def get(email, self):
        topicsArr = ["sport",
"tech", "world", "finance",
"politics", "business",
                    "economics",
"entertainment", "beauty",
"travel", "music", "food",
"science", "cricket"]
        fav =
selectQuery("SELECT
favourites from user where
email=?", (email,))[
            'FAVOURITES']
        fav = fav.split(',')
        for x in fav:
            topicsArr.remove(x)
        retArr = []
        favList = []
        # favList = retArray
        nonFavList = []
        for x in fav:
            try:
                data = apiData(x)
            except:
                data=None
            if (data is not None):
                for y in data:
                    favList.append(y)
        try:

random.shuffle(favList)
            favList =
sorted(favList, key=lambda k:
k['date'], reverse=True)
        except:
            favList=[]
        for x in topicsArr:
            try:
                data = apiData(x)
            except:
                data=None
            if(data is not None):
                for y in data:
```

```
nonFavList.append(y)
        try:

random.shuffle(nonFavList)
            nonFavList =
sorted(nonFavList,
key=lambda k: k['date'],
reverse=True)
        except:
            nonFavList=[]
        retArr =
favList+nonFavList
        return {"data": retArr},
200

class News(Resource):
    @token_required
    def get(email,self,topic):
        topicsArr =
["headline","sport", "tech",
"world", "finance", "politics",
"business",
                     "economics",
"entertainment", "beauty",
"travel", "music", "food",
"science", "cricket"]
        if(topic not in topicsArr):
            return {"status":"Not a
valid topic"},404
        try:
            retArr=apiData(topic)
            random.shuffle(retArr)

retArr=sorted(retArr,key=lam
bda k:k['date'],reverse=True)
        except:
            retArr=[]

return{"data":retArr},200
```

emailsender.py

```
from email.mime.multipart
import MIMEMultipart
from email.mime.text import
MIMEText
from utils.tokener import
generate_confirmation_token
import app

def emailSender(email,token):
    msg =
MIMEMultipart('alternative')
    msg['Subject'] = "Thanks
for joining NewsTracker"
    msg['From'] = "News
Tracker Dev Team"
    msg['To'] = email
    text=f"Here is the Token
for your account
verification\n{token}"
    html = f"""\
    <html>
        <head></head>
        <body>
        <p>Verification For
NewsTracker<br>
        Please click the
following link to verify your
account<br>
        <h1>{token}</h1>
        </p>
        <br>
        <p>Note: This link
expires within one hour from
the time sent</p>
        <br><br>
        <p>Regrads,<br></p>
        <p><a
href="https://localhost:5000">
NewsTracker Dev
Team</a></p>
        </body>
    </html>
    """

part1=MIMEText(text,'plain')

part2=MIMEText(html,'html')
    msg.attach(part1)
    msg.attach(part2)

app.s.sendmail("freeacc602@
gmail.com",email,msg.as_stri
ng())
```

```
def newEmailSender(email):
    token=generate_confirmation_token(email)
    emailSender(email,token)
```

dbconfig:

```
 from dotenv import dotenv_values
def getDbCred():
    data=dotenv_values(".env")
    dsn_hostname=data["ibm_host_name"]
    dsn_uid=data["ibm_user_id"]
    dsn_pwd=data["ibm_password"]
    dsn_driver=data["ibm_driver"]
    dsn_database=data["ibm_db_name"]
    dsn_port=data["ibm_port"]
    dsn_protocol=data["ibm_protocol"]
    dsn=(
        "DATABASE={1};"
        "HOSTNAME={2};"
        "PORT={3};"
        "PROTOCOL={4};"
        "UID={5};"
        "PWD={6};"

"SECURITY=SSL").format(d
sn_driver,dsn_database,dsn_h
ostname,dsn_port,dsn_protoc
ol,dsn_uid,dsn_pwd)
    return dsn
```

news.html

```
 <!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-
Compatible"
content="IE=edge">
    <meta name="viewport"
content="width=device-width,
initial-scale=1.0">
    <link rel="stylesheet"
href="../css/news.css">
    <title>Document</title>
</head>
<body>
    <nav id="head_nav">
        <div
class="title_container">
            <img id="ham_icon"
src="../assets/hamburger
1.svg" alt="ham_icon">
```

```
      <h1
id="app_name">News
App</h1>
      <!-- <div
class="search_container">
        <input type="text"
          id="search_box"

placeholder="Search for
topics, locations and
resources"
        >
      </div> -->
      <img id="user_icon"
src="../assets/user 1.svg"
alt="user_icon">
      <div
class="profile_div
display_none">
        <h3
class="logout">Logout</h3>
      </div>
    </div>
    <div
class="menu_container">
      <h3
class="selected_nav_item">H
ome</h3>
      <h3>India</h3>
      <h3>World</h3>
      <h3>Technology</h3>
```

```
<h3>Entertainment</h3>
            <h3>Sports</h3>
            <h3>Science</h3>
            <h3>Health</h3>
        </div>
    </nav>
    <iframe src=""
frameborder="0">
        <!-- news API -->
    </iframe>

    <script
src="../js/main.js"></script>
</body>
</html>
```

signup.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-
Compatible"
content="IE=edge">
    <meta name="viewport"
content="width=device-width,
initial-scale=1.0">
    <title>Create a
account</title>
    <link
     href="<link
href="https://fonts.googleapis.
```

```
com/css2?family=Raleway:w
ght@300&display=swap"
      rel="stylesheet"
     />

    <style>
        *{
          box-sizing: border-box;
          margin: 0;
          padding:0;
        }

        body {
            font-family: 'Raleway',
sans-serif ;
            background-color:
#344a72;
            color:white;
            line-height: 1.8;
        }
        a {
            text-decoration:none;
        }

        #container{
            margin: 30px auto;
            max-width: 400px;
            padding: x;
        }

        .form-wrap {
            background: #fff;
            padding:15px 20px;
            color:black;
        }
        .form-wrap h1,
        .form-wrap p{
            text-align: center;
        }

        .form-wrap .form-group
{
            margin-top: 15px;


        }

        .form-wrap .form-gropu
label{
            display:block;
            color:#666;
        }
        .form-wrap .form-group
input {
            width:100%;
            padding: 10px;
            border:#ddd 1px solid;
            border-radius:5px;
        }

        .form-wrap button{
            display:block;
            background:#49c1a2;
            width:100%;
            padding:10px;
            margin-top:20px;
            color:#fff;
            cursor:pointer;

        }
        .form-wrap button:hover
{
            background: green



        }
        .form-wrap .button text {
            font-size:13px;
            margin-top:20px;
        }

        footer {
            text-align:center;
            margin-top:10px;
        }

        footer a{
            color:#49c1a2
        }
    </style>
</head>
<body>
    <div id="container">
    <div class="form-wrap">
        <h1>Sign Up</h1>
        <p>It's free and only
takes a minute</p>
```

```
    <form>
        <div class="form-group">
            <lable for="first-name">First Name</lable>
            <input type="text" name="firstname" id="first-name"/>
        </div>
        <div class="form-group">
            <lable for="last-name">Last Name</lable>
            <input type="text" name="lastname" id="last-name"/>
        </div>
        <div class="form-group">
            <lable for="email">Email</lable>
            <input type="email" name="email" id="email" placeholder="Enter an email address"/>

        </div>
        <div class="form-group">
            <lable for="password">Password</lable>
```

```
                <input
type="password"
name="password"
id="password"/>
            </div>
            <div class="form-
group">
                <lable
for="password2">Confirm
Password</lable>
                <input
type="password"
name="password2"
id="password2"/>
            </div>
            <button type="submit"
formaction="login.html"
class="btn">Sign
Up</button>
            <p class="bottom-
text">
            <a
href="Signup.html">Sign
Up</a>
                By clicking the Sign
Up button,you agree to our
                <a href="#">Terms
and Conditions</a> and
                <a
href="#">Privacy Policy</a>
            </p>
        </form>
```

```
    </div>
    <footer>
        <p>
            Already have an account?
            <a href="login.html">Login Here</a>
        </p>
    </footer>
    </div>**-++

</body>
</html>
```

Github source code link: **https://github.com/IBM-EPBL/IBM-Project-41435-1660642139**

Project demo link : **https://drive.google.com/file/d/1hYvG2JwGIjSsMNqCFcOwiITqda8YtQ0o/view**