NEWS TRACKER APPLICATION

Team ID - PNT2022TMID31950

1. INTRODUCTION:

1.1 PROJECT OVERVIEW:

In today's world people cannot go a day without technology and social sites. In the past few decades, people were familiar with the social News sites, but in recent years, the need for features has been increased to make the lives of people much simpler, better, and handy. The rapid progress in the mobile technology field has created a new zeal in the many new young minds of software engineers and developers. There have been many attempts made to develop a freeware and cross platform instant news service for smart phones. A pilot case study was carried out to trace the support of the features of news applications.

1.2 PURPOSE

A well-designed native mobile app can deliver everything that your reader wants, all just a tap away, allowing them to easily access your content on their commute, in their free time, or whenever you send a relevant push notification from your native app. Your content should be accessible with a simple swipe action. Today, we're used to being able to access content with a simple thumb swipe. We've all become really good at swiping up, again and again, thanks to popular apps like Facebook and Instagram making the news feed format the most widely used means to access information and content on a mobile device.

2. LITERATURE SURVEY :

2.1 EXISTING PROBLEM

Physical newspapers are old fashioned in this digital era. It cost money to buy, can easily be damaged, limited amount of information, not flexible to modification poor quality. Fixing this in such a way can make physical newspapers become extinct and their use can be abolished . is the problem They said it would be a greater problem to Integrate people to be digitally aware

2.2 REFERENCES

Temporal Summariesof News TopicsJames Allan, RahulGupta, and Vikas Khandelwal 2001

Algorithm : The surprising result for usefulness is that a round robin ranking algorithm performs almost as well as useful2. We believe that reflects the pyramid nature of news reporting: important, and therefore probably on topic, information is reported early in a story. Later material is more likely to be tangentially related to the topic, and so rankingit lower helps. Accuracy is 70%.

Topic Detectionand Tracking James Allan 2002

Algorithm: TDT tasks, Story Segmentation, First Story Detection, Cluster Detection, Story LinkDetection 73%.

Introduction to information retrieval Christopher D. Manning, Prabhakar Raghavan, and Hinrich Schutze 2008 the context of Information Retrieval, link analysis focuseson "the analysisof hyperlinks and graph structure of the web" with the intention of facilitating web search. In particular, chapter 21 provides quite a comprehensive introduction to Google's PageRank algorithm accuracy 70%

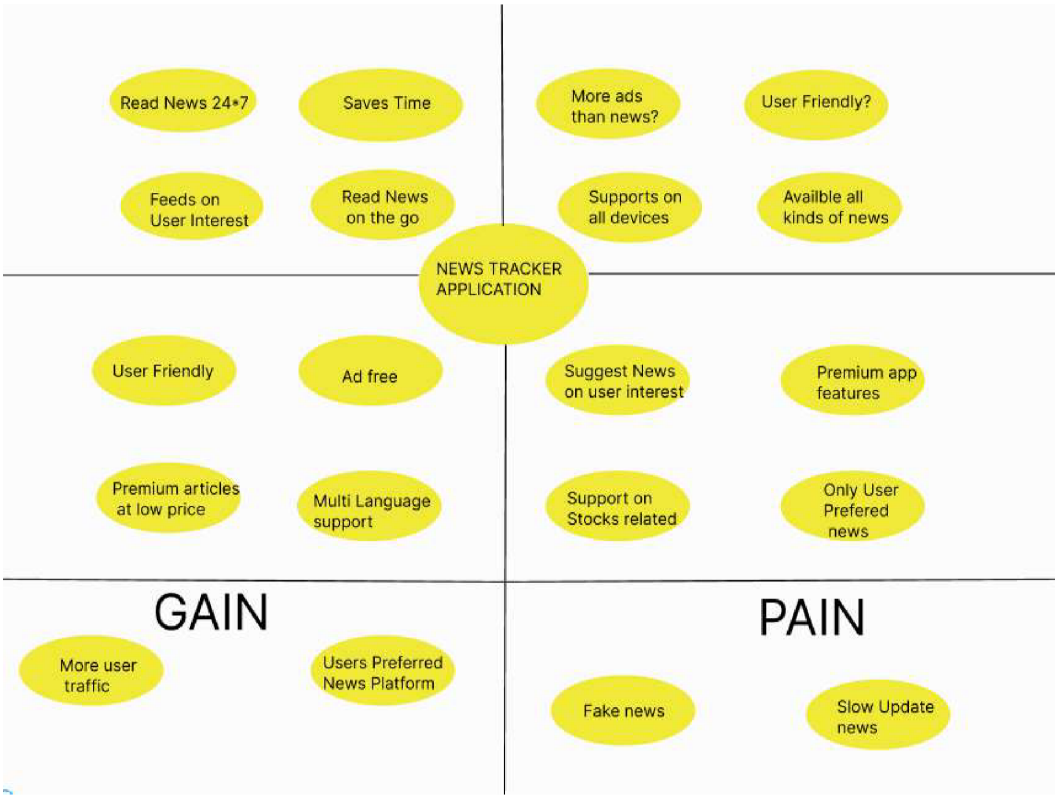
2.3 PROBLEM STATEMENT

Ajith Kumar is a busy business man who needs to read news on the go without

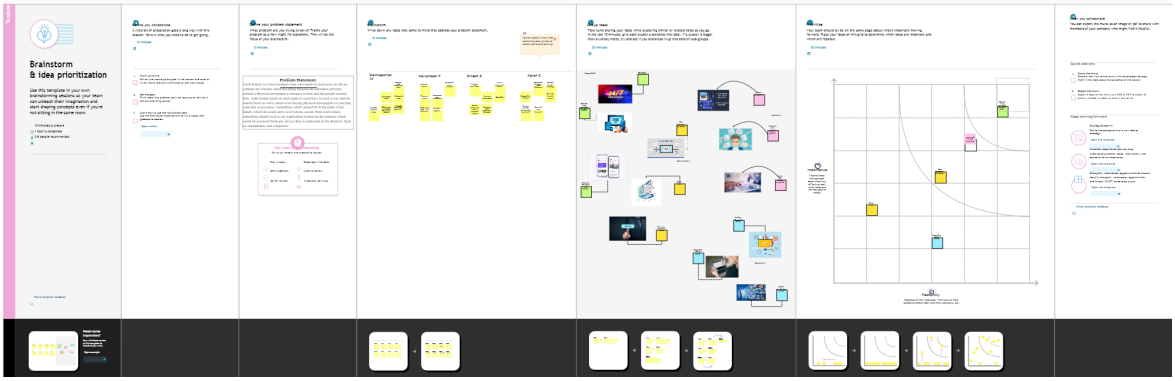
anyhassles while travelling because he considers carrying around a physical newspaper a nuisance to him and the people around him. Ajith kumar needs to lead needs toread news in such a way that he doesn't have to worry about ever buying physical newspapers or carrying with himeverywhere. Something which should fit in the palm of his hands, which he could carry everywhere, access from everywhere, something digital such as an Application hosted on theinternet which could be accessed from any device that is connected to the Internet. Such as smartphones and computers.

3. IDEATION & PROPOSED SOLUTION :

3.1 EMPATHY MAP CANVAS :



3.2 IDEATION & BRAINSTORMING :



3.3 PROPOSED SOLUTION :

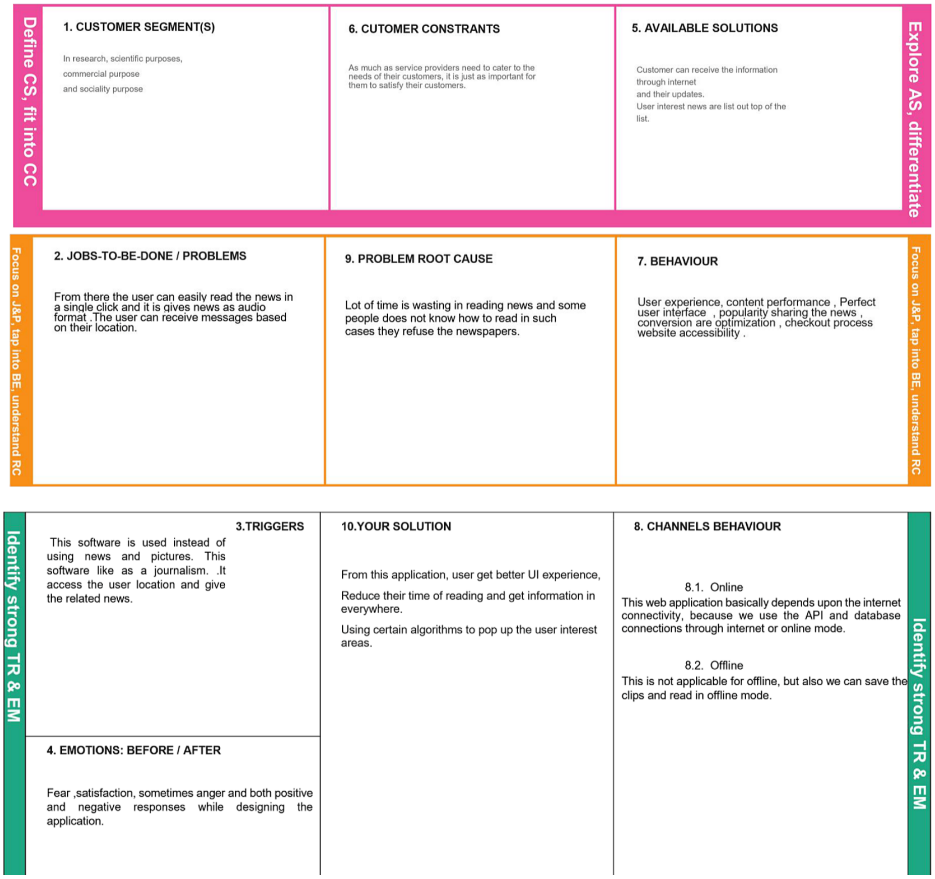
The user needs a way to get relevant news based on his choices so that the user does not have to spend a lot of time on searching news.

News is filled with ads and spams annoys and irritates the user and affects the user experience.

Since the web application is deployed on IBM cloud, it can handle multiple users at a time. The user will go through a seamless experience and it enables them to view the news according to their interests and choices. Users from all age category can use the application and the news can also be filtered according to their age.

A cloud-based web application which enables the user to get the news as per their interests, choices and location. News will be filtered as per the user's wish and it will be displayed to the user.

3.4 PROPOSED SOLUTION FIT :



4. REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENTS

User Registration

Registration through online application

Registration through Gmail

Registration through website

User login

Login through username and password

Login through

Login through email

User interaction :

Done through user interface between clientand server

View the related news by subscripted orrequested page

User sharing :

Application has tools to share this news insocial networks

4.2 NON-FUNCTIONAL REQUIREMENTS

Usability :

By subscribing to the website's news feed,end users can receive push notifications for new information on the site

Security :

How well are the data and systemsecuredfrom attacks?

***Reliability** :*

- ✓ *How frequently do the system's critical failures occur?*
- ✓ *How long does it take toresolve the problem once it occurs?*
- ✓ *How does downtime compare to user availability time?*

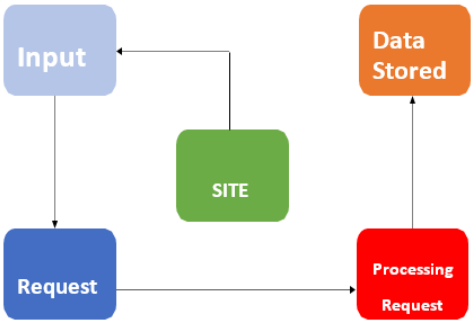
Performance :

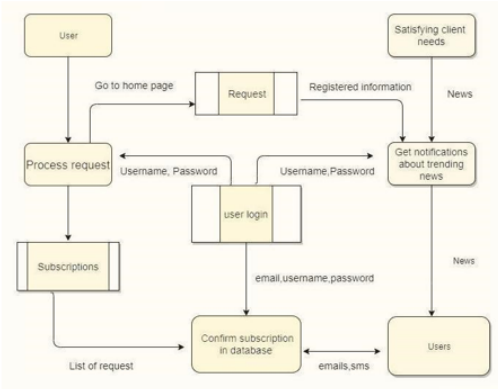
The primary non-functional requirement that every system must have is performance.It specifies how quickly a software system or a specific component of it reacts to specific user actions while handling a specific workload.

Given the current user base as a whole, this statistic often indicates how long a user must wait before the goal operationoccurs (the pagerenders, a transaction is executed, etc..

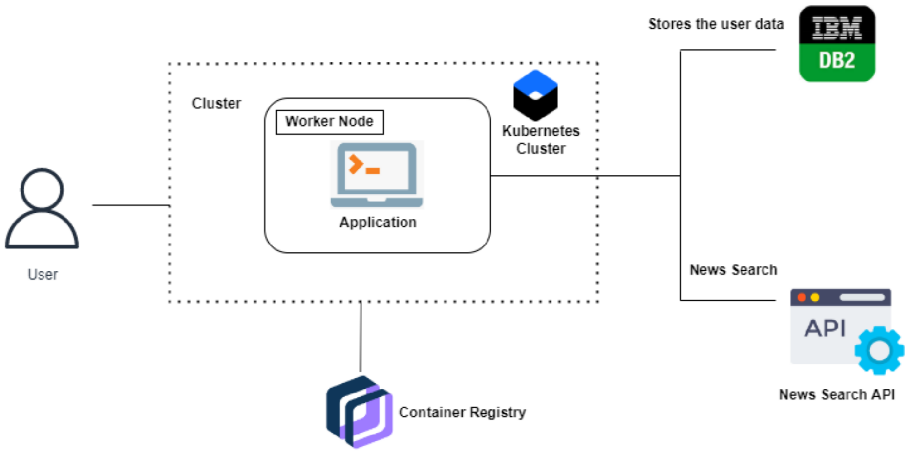
5. PROJECT DESIGN

5.1 DATA FLOW DIAGRAM





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)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
Customer (confirmation)	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
Customer (registration to different platforms)	Facebook support	USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
Customer (Gmail login)	Gmail Login (optional)	USN-4	As a user, I can register for the application through Gmail	I can access the application through my Gmail account	Medium	Sprint-1
User (Account Login)	Login	USN-5	As a user, I can log into the application by entering email & password	Easy to access the application with already registered details and passwords	High	Sprint-1
Application (front end)	Dashboard	USN-6	As User, can login to the application using their I'd and password	Two simple step Process	Medium	Sprint-1
Customer (Web user)	Web portal	USN-7	As User the link of the web portal of the application has to be created for sharing the content	Web link creation and separate web portal for user	High	Sprint-1
Customer Care Executive	Customer Support	USN-8	As the user can expect customer care support 24/7 to resolve the problems.	Customer care and support	High	Sprint-1
Administrator	Admin page	USN-9	kindly provide with proper proof and authority. And admin gets once clarified.	Admin gets the complete details can able to provide user their needs and security.	High	Sprint-1
Designer type	Design language	USN-10	As in point of User expects some different design languages.	Design in the application gets some attention.	Medium	Sprint-1
Software type Developer	Software used priors	USN-11	In User point, the Software Used must be in the updated version.	Version of the software used.(updated)	High	Sprint-1
Marketing type	Values of the application	USN-12	The rate of their values may Create an impressions by their values and reviews.	Share values of the application	Low	Sprint-2

6. PROJECT PLANNING & SCHEDULING

6.1 SPRINT PLANNING & ESTIMATION

Sprint	***Total StoryPoints***	***Duration***	***Sprint StartDate***	***Sprint End Date (Planned)***	***Sprint ReleaseDate (Actual)***
Sprint-1	*20*	*6 Days*	*24 Oct 2022*	*29 Oct 2022*	*29 Oct 2022*
Sprint-2	*20*	*6 Days*	*31 Oct 2022*	*05 Nov 2022*	*05 Nov 2022*
Sprint-3	*20*	*6 Days*	*07 Nov 2022*	*12 Nov 2022*	*12 Nov 2022*
Sprint-4	*20*	*6 Days*	*14 Nov 2022*	*19 Nov 2022*	*19 Nov 2022*

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculatethe team's average velocity (AV) per iteration unit (story points per day)

Burn-down Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However,burn down charts can be applied to any projectcontaining measurable progress over time.

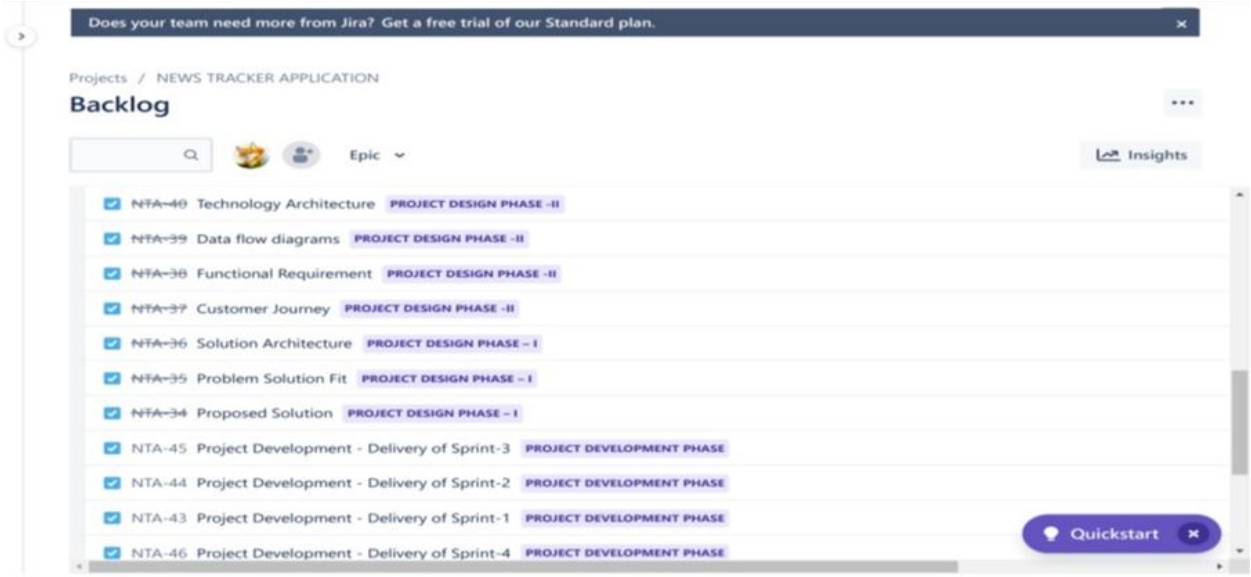
S: No	***Task / Activity***	***Sprint-1 24 - 29 Oct 2022***	***Sprint-2 31 Oct -5 Nov 2022***	***Sprint-3 7 - 12 Nov 2022***	***Sprint-4 14 - 19 Nov 2022***
1	*Creating a web page(Home-Page & Dashboard).*				
2	*Creating Database andworking on it.*				
3	*Establishing databaseconnection.*				
4	*Creating Registration/LoginPage.*				
5	*Creating User Login.*				
6	*Implementing Admin &Publisher Panel.*				
7	*Integrating NEWS API.*				

8	*Adding Watson Assistant.*				
9	*Testing and debugging.*				
10	*Creating image andcontainerize the application.*				
11	*Deploying the application inIBM cloud.*				

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	
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	5	High	
Sprint-1		USN-3	As a user, I can register for the application through Gmail	5	Medium	
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password	5	High	
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	
Sprint-2	Dashboard User Interface	USN - 11	Administrator designing the user interface	10	Medium	
Sprint-3		USN-6	As a user I can go through the feed of news filtered according to my wish.	10	High	
Sprint-3		USN-7	As a user, I can log out my account in settings.	10	Medium	
Sprint-4		USN-8	As a user, I can update my interests and choice in account settings.	10	Medium	

6.3 REPORTS FROM JIRA



7. CODING & SOLUTIONING

7.1. FEATURE 1

After go to the news tracker application, the user enters their account details.If the user already have the accountthen they enter the user name and password.
Next, they select the any on of the source and go to the news portal.

7.2. FEATURE 2

After go to the news portal,the user read the news from google news, BBC, etc.

If the user want to logout the news application then click the logout buttonotherwise Go to the dashboard

7.3. DATA BASE SCHEMA

FULLNAME	USERNAME	PASSWORD
	Shanmugapriyan	Shanmuga
	Kaviarasan	KaviKavi2
	Dinesh	Dinesh890
	Karran	Karran12

8. TESTING

8.1 TEST CASES

PURPOSE OF APPLICATION

The purposeof this documentis to briefly explain the test coverageand open issues of the News TrackerApplication project at the time of the release to User Acceptance Testing (UAT).

DEFECT ANALYSIS

Resolution	***Severity 1***	***Severity 2***	***Severity 3***	***Severity 4***	***Subtotal***
By Design	*8*	*3*	*4*	*2*	*17*
Duplicate	*2*	*1*	*0*	*6*	*9*
External	*6*	*3*	*0*	*1*	*16*

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	*8*	*0*	*0*	*8*
Client Application	*23*	*0*	*0*	*23*
Security	*3*	*0*	*0*	*3*
Outsource Shipping	*2*	*0*	*0*	*2*
Exception Reporting	*6*	*0*	*0*	*6*
Final ReportOutput	*6*	*0*	*0*	*6*
Version Control	*1*	*0*	*0*	*1*

9. RESULTS

9.1. PERFORMANCE METRICS

NFT - RiskAssessment

Project Name	*News TrackerApplication*
Scope/feature	*New*
Functional Changes	*Low*
Hardware Changes	*No Changes*
Software Changes	*Moderate*
Impact of Downtime	*No Impact of Downtime*
Load/Volume Changes	*>5 to 10%*
Risk Score	*ORANGE*
Justification	*As we have seenthe changes*

NFT - Detailed Test Plan

Project Overview	*News Tracker Application*
NFT Test approach	*Locust*
Assumptions/Dependencies/Risks	*No Risk Factors*
Approvals/SignOff	*Approved*

End Of Test Report

Project Overview	*News TrackerApplication*
NFT Test approach	*Locust*
NFR - Met	*Nil*
Test Outcome	*Working good*
GO/NO-GO decision	*None*
Recommendations	*None*
Identified Defects(Detected/Closed/Open)	*No Defects Identified*
Approvals/SignOff	*Approved*

10. ADVANTAGES & DISADVANTAGES

Advantages	Disadvantages
• Rapid development • Fast administration • Flexible questionnaire design • Low cost • Access to traditionally hard-to-reach groups • Low data entry errors • Possibly higher data quality compared with other survey modalities	• Sampling biases • Self-selection bias • Internet access required • Computer literacy required • Relatively lower response rates • Technical problems

11. CONCLUSION

The Motivation and scope behind this project are to connect people through this application and provide a medium to share their views on the topic/news/information. Then, People with the same interest can interact with each other. However, they can even sharemore information on the topic.This app whilecross-checks the redundancy in the information along with the false and misleading information,which later results inpanic in the people.

12. FUTURE SCOPE

Online News is the future. In a world where information can easily be available on the internet, where speed and distance are irrelevant, other options become quite redundant. Online apps that notify you immediately about the latest happenings are gaining more prominence. Dais World is one of the upcoming apps that not only keeps you updated, but has so many other features like offline reading, night mode, news genre preferences and so much more. Online news is really the future.

13. APPENDIX

SOURCE CODE

```
<!DOCTYPE html>
 <html lang="en">
  <head>
   <meta charset="UTF-8" />
   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
   <meta http-equiv="X-UA-Compatible" content="ie=edge" />
   <link
    href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
    rel="stylesheet"
                                                    integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"
    crossorigin="anonymous"
   />
<link rel="stylesheet" href="style.css" type="text/css" />
  <script
```

```
    src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"

integrity="sha384MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"
    crossorigin="anonymous"
  ></script>
  <title>Sign in</title>
 </head>
 <body style="background-color: hsl(0, 0%, 96%); max-height: 100%">
  <div class="px-4 py-5 px-md-5 text-center">
   <div class="container d-flex justify-content-center align-items-center">
    <div class="row">
     <div class="col-lg-6 mb-5 mb-lg-0">
      <h3 class="my-5 display-3 fw-normal ls-tight">
       News Tracker <br />
       <span class="text-primary">Application</span>
      </h3>
      <!-- <p style="color: hsl(217, 10%, 50.8%)">
       Lorem ipsum dolor sit amet consectetur adipisicing elit. Eveniet,
       itaque accusantium odio, soluta, corrupti aliquam quibusdam
       tempora at cupiditate quis eum maiores libero veritatis? Dicta
       facilis sint aliquid ipsum atque?
      </p> -->
     </div>

     <div class="col-lg-6 mb-5 mb-lg-0">
      <div class="card">
       <div class="card-body py-5 px-md-5">
        <form>
   <!-- 2 column grid layout with text inputs for the first and lastnames -->
   <div class="row">
    <div class="col-md-6 mb-4">
     <div class="form-outline">
      <input
       type="text"
       id="form3Example1"
       class="form-control"
```

```
      placeholder="First name"
     />
    </div>
  </div>
  <div class="col-md-6 mb-4">
    <div class="form-outline">
      <input
       type="text"
       id="form3Example2"
       class="form-control"
       placeholder="Last name"
      />
    </div>
  </div>
</div>

<!-- Email input -->
<div class="form-outline mb-4">
  <input
    type="email"
    id="form3Example3"
    class="form-control"
    placeholder="E-mail Address"
  />
</div>

<!-- Password input -->
<div class="form-outline mb-4">
  <input
    type="password"
    id="form3Example4"
    class="form-control"
    placeholder="Password"
  />
</div>
```

```
      <!-- Submit button -->
      <div class="d-grid gap-2">
        <button type="submit" class="btn btn-primary">
          Sign up
        </button>
                </div>
              </form>
            </div>
          </div>
        </div>
      </div>
    </div>
  </body>
</html>
```

```
import ibm_db

app = Flask(_name_)

conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=3883e7e4-18f5-4afe-be8c-
fa31c41761d2.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31498;SECU
RITY=SSL;SSLServerCerficate=DigiCertGlobalRootCA.crt;UID=gqx98810;PWD=shid
QiWRftvLQAf5",'  ',' ')

print(conn)
print("Connection Successful...")
```

GITHUB & PROJECT DEMO LINK

https://github.com/IBM-EPBL/IBM-Project-41273-1660640848

VIDEO DEMO LINK

https://drive.google.com/file/d/1loHa7jZ-N9D5_LGFpldrxWBDd6Qnt__w/view?usp=sharing