NEWS TRACKER APPLICATION

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ABSTRACT

Everyone has the right to freedom of speech. However, this right is being misused to differentiate and attack others, physically or verbally, in the name of free speech. This discrimination is known as hate speech. Hate speech can be well-defined as language used to express hate towards a person or a group of people based on characteristics such as race, religion, ethnicity, gender, nationality, disability and sexual orientation. The increasing usage of social sites and information sharing has specified major benefits to humanity. However, this has also assumed rise to a variety of challenges including the spreading and sharing of hate speech messages. Thus, to solve this emerging issue in social media sites, recent studies employed a variety of machine learning and deep learning algorithms with text mining algorithm to automatically detect the hate

speech messages on real time datasets. Hence, the aim of this Project is to analyses the comments on social networks using Natural Language processing technique (NLP) and Deep learning algorithm named as Back propagation neural network algorithm. Using NLP technique, can extract the keywords from user generated content and implement Back Propagation neural network to classify the text whether it is positive or negative. If it is negative means, automatically block the comments as per user wish and also block the friends based on pre-defined threshold values. Experimental results shows that the proposed framework implemented in real time social network site with improved notification .

TABLE OF FIGURES

News Tracker Application

1. INTRODUCTION

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 of features has been increased so as 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 the 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.

1.1 Project overview

As news is increasingly accessed on smartphones and tablets, the need for personalising 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 behaviours; 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 recognise 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.

1.2 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.researchg

ate.net/.

https://www.ripublication.com/

2.3 Problem Statement Definition

1.The user needs a way to organize the news on a daily basis so that he can cope up with daily events in his tight schedule.

 2.The user wants to read news only about particular topics so that he can be informed about

his interest.

 3.The user wants to get informed from only certified news outlets .

 4.   The user needs a way to search about the news on topics he wants to.

5.   The user wants to know the news about his surroundings using GPS location.

3. IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas
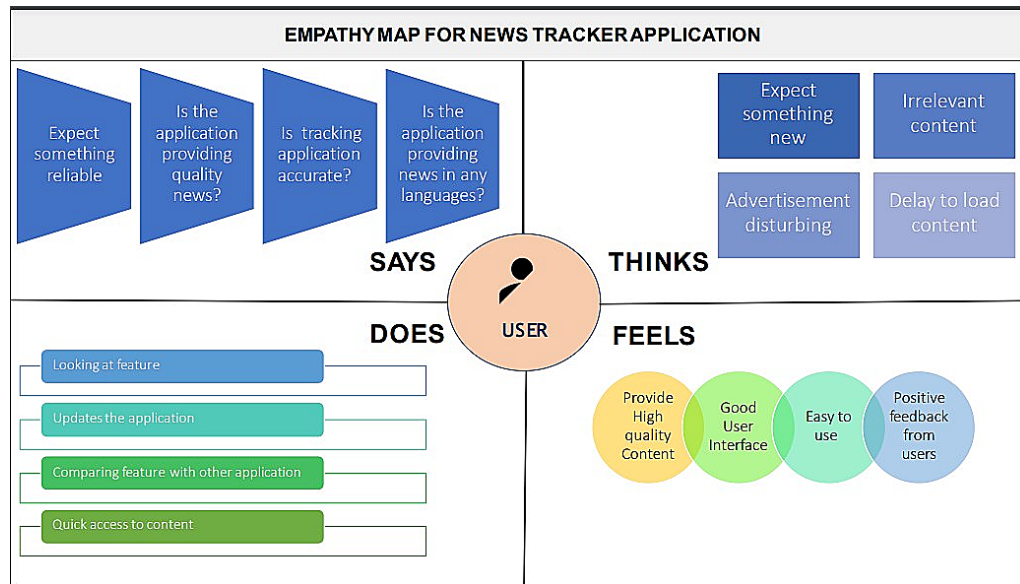
3.2 Ideation and Brainstorming

Proposed Solution

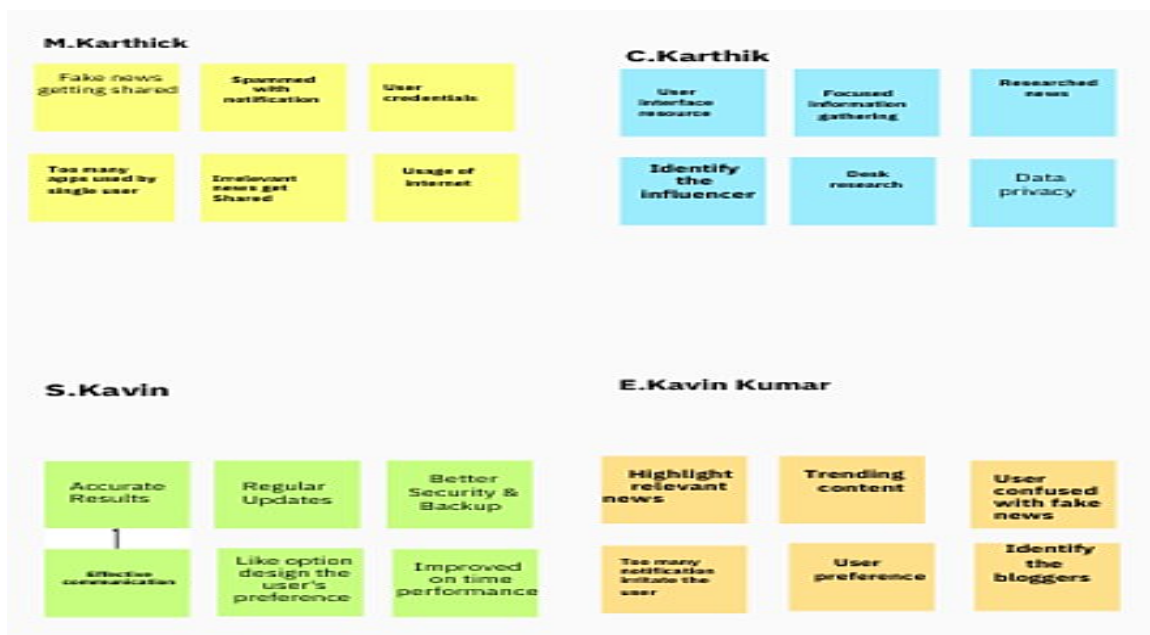| S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	There are multiple news-sharing apps used by a single user and are often spammed with notifications. There is also a lot of fake news which gets shared. This application contains too many ads, unwanted pop up messages and takes a long time to load a particular content which makes customers feel frustrated and disappointed to use.
2.	Idea / Solution description	A news-sharing app wants to help users find relevant and important news easily every day and also understand explicitly that the news is not fake but from proper sources.We provide alternative channels like chat bots , email for user problems , Make regular follow-ups and make user friendly applications.
3.	Novelty / Uniqueness	Due to changes brought about by the pandemic, people started depending on the news a lot to get updates about the situation around them. With the rise of cloud-based applications, integration of UX into these applications can not only grow your user base but also play a crucial role in increasing performance. We would add the content through the User Interface designing part.
4.	Social Impact / Customer Satisfaction	User friendly application, the customer expects relevant news avoiding spam, fake, irrelevant news. They expect better application performance and faster response to their feedback.

5.	Business Model (Revenue Model)	Making the business model strong leads to an ongoing business profit leading to increase in cash reserve and new investments. An app revenue model is an important element of a company concept or business plan, which should be completed before entering the development phase. Banner advertising, paid promotions, sponsored news, promoted content, campaign sponsorships, and subscription are just a few of the methods by which a news channel app may generate income.
6.	Scalability of the Solution	This model focuses on sharing and updating news instantly without any intermediary. The measure of a system's ability to increase or decrease in performance and cost in response to changes in

application. |

3.4 Problem Solution   fit

Problem-Solution fit

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	

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) | |

4. EMOTIONS: BEFORE / AFTER	EM
Viewed Only at Home > Anywhere at Any time – This Application Is Useful and Can Be Used	

8.2 Offline:

Client Can Download Significant News When the Client Has Web and When the Client Is

REQUIREMENT ANALYSIS

4.1 Functional requirement

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	**User Registration**	Ø Registration through Form Ø Registration through Gmail
FR-2	**User Confirmation**	Ø Confirmation via Email Ø Confirmation via OTP
FR-3	**Searching**	Ø Search the news based on the user interest Ø Showing the trending news on search Ø Showing the Category- wise news Ø User can save the news needed and study later Ø Help users find content with categorized
FR-4	**Real time News**	Ø User can see the Real news with Real time update Ø Auto update news because it fetch news from API Ø Show the Number of comments an article as a and the number of comment can be used as a measure of comment popularity

FR-5	**Location based**	Ø User can view the news near to their location Ø User can track the Location of the news

4.2 Non-functional Requirements:

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

FR No.	Non- Functional Requirement	Description
NFR- 1	**Usability**	Ø The news is updated almost every minute, in all this endless news flow, the user should always be able view exactly information that interest him/her at the moment. Ø Search and Filtering function will provide the users with the opportunity to search for information of their interest according to specific criteria and parameters.
NFR- 2	**Security**	Ø Authentication and password management Ø During the comment, many users can be rude or Cruel, so of course, it worth thinking of algorithms that will allow you to block offensive comments, as well as spam.
NFR- 3	**Reliability**	Ø Avoid the Fake news Ø Instant news at instant time

		Ø Track the location of the news
NFR-4	**Performance**	Ø Keep users In-App for longer with related post Ø Show users the most relevant story first Ø Keep your user's attention with list views
NFR-5	**Availability**	Ø Continuous running for example, 24/7, minimumidle time Ø History of the previous news that happened before related to the present news
NFR-6	**Scalability**	Ø Get more user's by encouraging social sharing Ø Keep users In-App for longer with related post

5. PROJECT DESIGN

5.1 Data Flow Diagrams
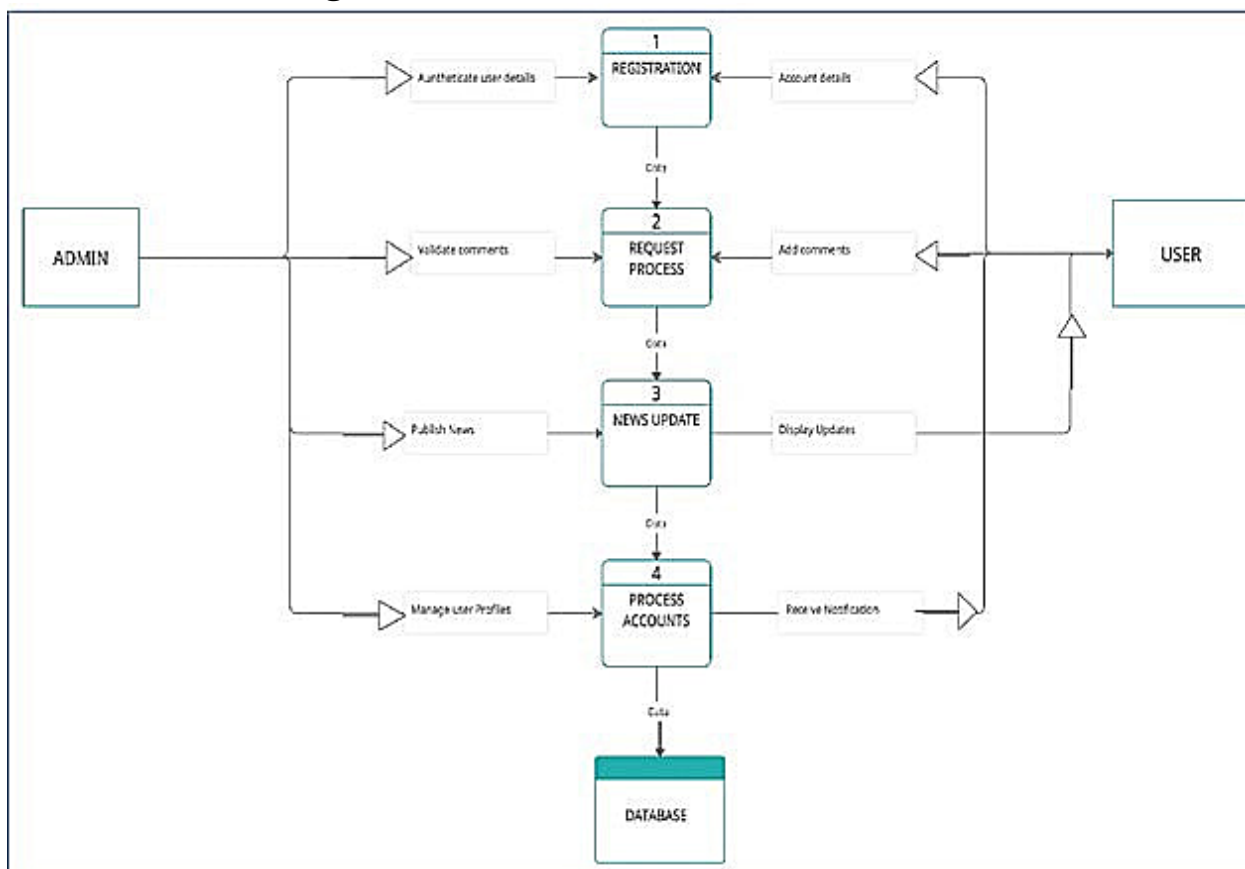
5.2 Solution & Technical Architecture
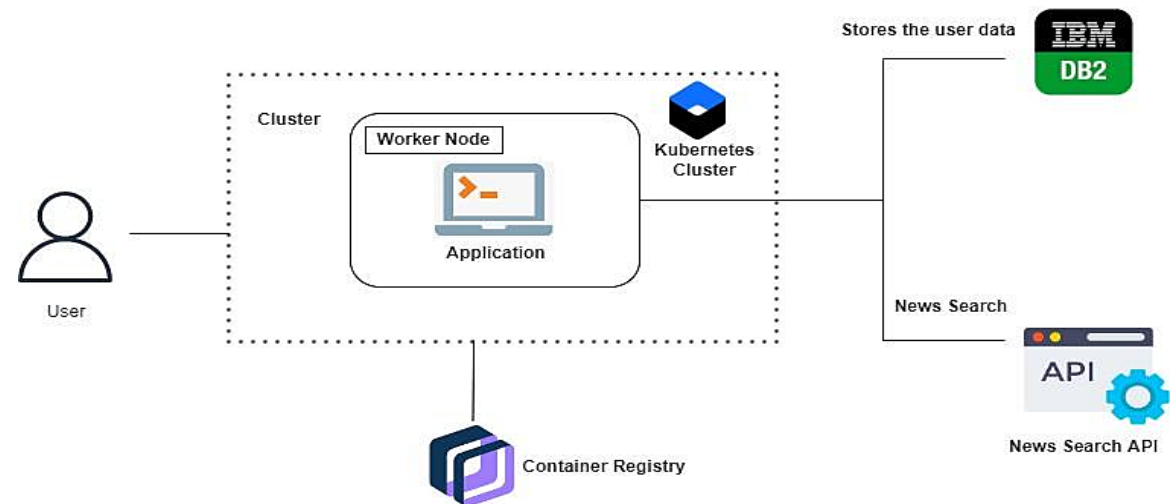
5.3 User Stories

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
		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
		USN-3	As a user, I can register for the application through sign up with google	I can register & access the dashboard with Gmail or in Browser Login	Medium	Sprint-1
Customer (Web user)	Login	USN-4	As a user, I can log into the application by entering email & password	I can view all types of informations through this application	High	Sprint-1
	Dashboard	USN-5	As a user , I can edit Profile to update my personal data	I can view that personal data got updated	High	Sprint-2
		USN-6	I want to read news based on my filter contents	News contents are filtered based on user	Medium	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer Care Executive	Help	USN-7	Get weekly report of user reviews	I can monitor the effectiveness of user review	High	Sprint-2
Administrator	Admin access	USN-8	As a system admin i want to able to configure user settings so that i can controll access	Access controll by system admin initiated	High	Sprint-2

6. PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation

Activity Number	Activity Name	Detailed Activity Description	Assigned To	Status / Comments
1.1	Access Resources	Access the resources (courses) in project dashboard.	All Members	COMPLETED
1.2	Rocket chat registration	Join the mentoring channel via platform & rocket-chat mobile app.	All Members	COMPLETED
1.3	Access workspace	Access the guided project workspace.	All Members	COMPLETED
1.4	IBM Cloud registration	Register on IBM Academic Initiative & Apply Feature code for IBM Cloud Credits.	All Members	COMPLETED
1.5	Project Repository Creation	Create GitHub account & collaborate with Project Repository in project workspace.	All Members	COMPLETED
1.6	Environment Setup	Set-up the Laptop / Computers based on the pre-requisites for each technology track.	All Members	COMPLETED
2.1	Literature survey	Literature survey on the selected project & Information Gathering.	All Members	COMPLETED
2.2	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED

2.3	Empathy Map	Prepare Empathy Map Canvasto capture the user Pains & Gains, Prepare list of problem statements	Karthick M Karthik C	COMPLETED
2.4	Technology	Attend the technology trainings as per the training.	All Members	COMPLETED
2.5	Brainstorming	List the ideas (at least 4 per each team member) by organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility & importance.	All Members	COMPLETED
2.6	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
3.1	Proposed Solution Document	Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc.	All members	COMPLETED
3.2	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
3.3	Problem – Solution fit & Solution Architecture	Prepare problem - solution fit document & Solution Architecture.	Karthick M Karthik C	COMPLETED
3.4	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
4.1	Customer Journey Map	Prepare the customer journey maps to understand the user interactions & experiences with the application (entry to exit).	Kavin s Kavin Kumar E	COMPLETED

5.1	Milestone & Activity List	Prepare Milestone & Activity List.	Karthick M Karthik c	COMPLETED
5.2	Sprint Delivery Plan	Prepare Sprint Delivery Plan.	All Members	COMPLETED
6.1	Project Development Phase	Project Development – Delivery of Sprint-1	Karthick M Karthik C	IN PROGRESS
6.2	Training	Attend the AMA / Expert Session-2	All Members	IN PROGRESS
6.3	Project Development Phase	Project Development – Delivery of Sprint-2	Kavin S Kavin Kumar E	IN PROGRESS
6.4	Training	Attend the AMA / Expert Session-3	All Members	IN PROGRESS
6.5	Project Development Phase	Project Development – Delivery of Sprint-3	Karthick M Karthik C	IN PROGRESS
6.6	Training	Attend the AMA / Expert Session-4	All Members	IN PROGRESS
6.7	Project Development Phase	Project Development - Delivery of Sprint-4	Kavin S Kavin Kumar E	IN PROGRESS
6.8	Training	Attend the AMA / Expert Session-5	All Members	IN PROGRESS

6.2 Sprint Delivery Schedule

6.

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.	20	High	Karthick M Karthik C
Sprint-2	Login	USN-2	As a user, I can log into the application by entering email &	10	Medium	Kavin S Kavin kumar E
Sprint-3	Reset my password	USN-3	As a logged in user, If I forget my password I can reset my password.	20	Medium	Karthick M Karthik C
Sprint-4	Comment	USN-4	As a logged user, I can post a comment about an application	20	Medium	Kavin S Kavin kumar E

Reports from JIRA

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7. CODING & SOLUTION

Home.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>Home</title>

    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/css/bootstrap.min.css" integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO" crossorigin="anonymous">

    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.3/dist/umd/popper.min.js" integrity="sha384-ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIPm49" crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/js/bootstrap.min.js" integrity="sha384-ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy" crossorigin="anonymous"></script>

    <script>

```
        function getnews(){

            fetch("https://newsapi.org/v2/top-
headlines?category=general&apiKey=cdc40c3ada3e44b9b096688f732b4116")

            .then(a=>a.json())

            .then(response =>{

                for(var i=0; i<response.articles.length; i++){

                    document.getElementById("output").innerHTML+="<div class='table-responsive'
style='color:white;'><table class='table table-sm table-hover table-striped table-dark'><tbody
style='font-size: 15px;'><tr><td><img style='width:300px;height:200px;border-style:solid;'
src='"+response.articles[i].urlToImage+"'></td><td><h3 style='font-size:
20px;'>"+response.articles[i].title+"</h3><h4 style='font-size: 18px;color:
lime;'>"+response.articles[i].source.name+"</h4><br>"+response.articles[i].description+" <a
href='"+response.articles[i].url+"'
target='_blank'>"+response.articles[i].url+"</a></td></tr></tbody></div>";

                }

            })

        }

    </script>

</head>

<body onload="getnews()" style="background-color: rgb(2, 1, 12);">


 <div class="container-fluid" style="background: linear-gradient(to bottom, #000099  0%,
#003333 100%);">

   <div class="row">

     <div class="col-md-12 mt-3 mb-3">

       <h2 class="text-center" style="color: white">Latest News Headlines</h2>

     </div>

   </div>

 </div>


   <nav class="navbar navbar-expand-lg navbar-light" style="background-color: #e3f2fd;
```

margin-bottom: 15px;">

 News App

 <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

 </button>

 <div class="collapse navbar-collapse" id="navbarSupportedContent">

  <ul class="navbar-nav mr-auto">

   <li class="nav-item active">

    Home

   <li class="nav-item dropdown">

     Category

    <div class="dropdown-menu" aria-labelledby="navbarDropdown">

     Entertainment

     Sports

     Technology

     Science

     Health

     Business

    </div>

   <li class="nav-item">

```html
      <a class="nav-link" href="/logout" style="color: black;font-weight: 500;">Logout
<span class="sr-only">(current)</span></a>

      </li>

    </ul>

    <form class="form-inline my-2 my-lg-0" action="/search" method = "POST">

      <input class="form-control mr-sm-2" type="search" placeholder="Search" aria-
label="Search" name="search">

      <button class="btn btn-outline-success my-2 my-sm-0" type="submit">Search</button>

    </form>

  </div>

 </nav>


  <div id="output"></div>


  <script>

   window.watsonAssistantChatOptions = {

    integrationID: "380464dc-d472-4156-bdf1-3ba4aca9e386", // The ID of this integration.

    region: "jp-tok", // The region your integration is hosted in.

    serviceInstanceID: "5c2a539f-09e4-4815-bfe8-33e934287400", // The ID of your service
instance.

    onLoad: function(instance) { instance.render(); }

   };

   setTimeout(function(){

    const t=document.createElement('script');

    t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') + "/WatsonAssistantChatEntry.js";

    document.head.appendChild(t);

   });

  </script>
```

</body>

</html>

Index.html

```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>Welome</title>


    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/css/bootstrap.min.css" integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO" crossorigin="anonymous">

    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.3/dist/umd/popper.min.js" integrity="sha384-ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIPm49" crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/js/bootstrap.min.js" integrity="sha384-ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy" crossorigin="anonymous"></script>

    <style>
        body{
            background-image: url('https://cvs-images.s3.jp-tok.cloud-object-
```

storage.appdomain.cloud/bg8.jpg');

      background-position: center center;

      background-repeat: no-repeat;

      background-attachment: fixed;

      background-size: cover;

      background-color: #000033;

    }

   </style>

</head>

<body>

   <nav class="navbar navbar-expand-lg navbar-light" style="background-color: #e3f2fd; margin-bottom: 15px;">

     News App

     <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

     </button>

     <div class="collapse navbar-collapse" id="navbarSupportedContent">

     <ul class="navbar-nav mr-auto">

     <li class="nav-item">

      Login (current)

     <li class="nav-item">

      Register


```html
        </ul>

      </div>

    </nav>



    <div class="container-fluid">

      <div class="row">

        <div class="col-md-12 mt-3 mb-3">

          <h1 class="text-center" style="color: white; margin-top: 20%;">Welcom To News App!!</h1>

        </div>

      </div>

    </div>

</body>

</html>
```

Login.html

```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>login</title>


  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/css/bootstrap.min.css"
integrity="sha384-
MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO"
crossorigin="anonymous">
```

```html
<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.3/dist/umd/popper.min.js" integrity="sha384-ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIPm49" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/js/bootstrap.min.js" integrity="sha384-ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy" crossorigin="anonymous"></script>


<style>
    h3{
        color: antiquewhite;
    }

    #form{
        margin: 10%;
        width: 30%;
        height:fit-content;
        background-color: burlywood;
        border-style: solid;
        border-radius: 10px;
        padding: 10px;
        text-align: left;
        opacity: 0.9;
    }

    #ele{
```

```
      padding: 10px;

      color: rgb(37, 22, 3);

      font-weight: bold;

    }


    #button1{

     font-weight: bold;

    }


    body{

     background-image: url('static/bg1.jpg');

     background-position: center center;

     background-repeat: no-repeat;

     background-attachment: fixed;

     background-size: cover;

     background-color: #000033;

    }

  </style>

</head>

<body>

  <nav class="navbar navbar-expand-lg navbar-light" style="background-color: #e3f2fd;
margin-bottom: 15px;">

    <a class="navbar-brand" href="/" style="color: red; font-weight: bold;">News App</a>

    <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">

      <span class="navbar-toggler-icon"></span>

    </button>
```

```html
<div class="collapse navbar-collapse" id="navbarSupportedContent">

  <ul class="navbar-nav mr-auto">

    <li class="nav-item">

      <a class="nav-link" href="/login" style="color: black;font-weight: 500;">Login <span class="sr-only">(current)</span></a>

    </li>

    <li class="nav-item">

      <a class="nav-link" href="/register" style="color: black;font-weight: 500;">Register</a>

    </li>

  </ul>

  </div>

</nav>


<center>

<form id="form" action="/log_res" method = "POST">

  <div class="form-group">

    <label for="exampleInputName1" id="ele">Email Address</label>

    <input type="email" class="form-control" id="exampleInputName1" name="email" placeholder="Enter Your Email">

    <small id="emailHelp" class="form-text" style="font-weight: 600;">We'll never share your email with anyone else.</small>

  </div>

  <div class="form-group">

    <label for="exampleInputEmail1" id="ele">Password</label>

    <input type="password" class="form-control" id="exampleInputEmail1" name = "password" aria-describedby="emailHelp" placeholder="Enter Your Password">

  </div>

  <center><button type="submit" class="btn btn-outline-dark" id="button1">Submit</button></center>
```

```
      </form>

    </center>

</body>

</html>
```

News.html

```html
<!DOCTYPE html>

<html lang="en">

  <head>

    <!-- Required meta tags -->

    <meta charset="utf-8" />

    <meta name="viewport" content="width=device-width, initial-scale=1" />


    <!-- Bootstrap CSS 4-->
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/css/bootstrap.min.css"
integrity="sha384-
MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO"
crossorigin="anonymous">

    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-
q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.3/dist/umd/popper.min.js"
integrity="sha384-
ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIPm49"
crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/js/bootstrap.min.js"
integrity="sha384-
ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy"
crossorigin="anonymous"></script>


    <!-- Bootstrap CSS 5-->

    <link
```

```html
      href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"
      rel="stylesheet"
      integrity="sha384-
1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"
      crossorigin="anonymous"
    />

    <title>Latest News Headlines</title>
  </head>
  <body>
    <div class="container-fluid" style="background-color: #00a3a3;">
      <div class="row">
        <div class="col-md-12 mt-3 mb-3">
          <h2 class="text-center" style="color: white">{{ cat }}</h2>
        </div>
      </div>
    </div>
    <nav class="navbar navbar-expand-lg navbar-light" style="background-color: #e3f2fd;
margin-bottom: 15px;">
      <a class="navbar-brand" href="/" style="color: red; font-weight: bold;">News App</a>
      <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>

      <div class="collapse navbar-collapse" id="navbarSupportedContent">
        <ul class="navbar-nav mr-auto">
          <li class="nav-item active">
```

```html
      <a class="nav-link active" href="home" style="font-weight: 500;">Home</a>

    </li>

    <li class="nav-item dropdown">

      <a class="nav-link dropdown-toggle active" style="font-weight: 500;" href="#"
id="navbarDropdown" role="button" data-toggle="dropdown" aria-haspopup="true" aria-
expanded="false">

        Category

      </a>

      <div class="dropdown-menu" aria-labelledby="navbarDropdown">

        <a class="dropdown-item" href="entertainment">Entertainment</a>

        <a class="dropdown-item" href="sports">Sports</a>

        <a class="dropdown-item" href="technology">Technology</a>

        <a class="dropdown-item" href="science">Science</a>

        <a class="dropdown-item" href="health">Health</a>

        <a class="dropdown-item" href="business">Business</a>

      </div>

    </li>

    <li class="nav-item">

      <a class="nav-link" href="/logout" style="color: black;font-weight: 500;">Logout
<span class="sr-only">(current)</span></a>

    </li>

  </ul>

  <form class="form-inline my-2 my-lg-0" action="/search" method = "POST">

    <input class="form-control mr-sm-2" type="search" placeholder="Search" aria-
label="Search" name="search">

    <button class="btn btn-outline-success my-2 my-sm-0"
type="submit">Search</button>

  </form>

</div>
```

```html
      </nav>


    <div class="row mt-5">
      <div class="col-md-2"></div>
      <div class="col-md-8">
        <div class="row">
          {% for news in news_articles %}
          <div class="col-md-4 mb-5">
            <div class="card" style="width: 18rem">
              <img src="{{ news.urlToImage }}" class="card-img-top" alt="..." />
              <div class="card-body">
                <h5 class="card-title">{{ news.title }}</h5>
                <p class="card-text">{{ news.description }}</p>
                <a href="{{ news.url }}" class="btn btn-primary">Read More</a>
              </div>
            </div>
          </div>
          {% endfor %}
        </div>
      </div>
      <div class="col-md-2"></div>
    </div>
    <!-- Bootstrap Bundle with Popper -->
    <script
      src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"
      integrity="sha384-
ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p"
```

```
      crossorigin="anonymous"

    ></script>


  <script>
    window.watsonAssistantChatOptions = {
      integrationID: "380464dc-d472-4156-bdf1-3ba4aca9e386", // The ID of this
integration.
      region: "jp-tok", // The region your integration is hosted in.
      serviceInstanceID: "5c2a539f-09e4-4815-bfe8-33e934287400", // The ID of your
service instance.
      onLoad: function(instance) { instance.render(); }
    };
    setTimeout(function(){
      const t=document.createElement('script');
      t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') +
"/WatsonAssistantChatEntry.js";
      document.head.appendChild(t);
    });
  </script>

  </body>
</html>


register.html
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```html
<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Register</title>


    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/css/bootstrap.min.css"
integrity="sha384-
MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO"
crossorigin="anonymous">

    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-
q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.3/dist/umd/popper.min.js"
integrity="sha384-
ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIPm49"
crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/js/bootstrap.min.js"
integrity="sha384-
ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy"
crossorigin="anonymous"></script>


   <style>
      h3{
         color: antiquewhite;
      }

      #form{
         margin: 10%;
         width: 30%;
         height:fit-content;
         color:antiquewhite;
         background-color: #202020;
         border-style: solid;
```

```css
        border-radius: 10px;

        padding: 10px;

        text-align: left;

        opacity: 0.9;

}


#ele{

        padding: 10px;

        color: rgb(250, 248, 245);

        font-weight: bold;

}


#button1{

  font-weight: bold;

  color: #fbfbfd;

}


#button1:hover{

  color: #000033;

}


h3{

  color: antiquewhite;

}


body{

  background-image: url('static/bg2.jpg');
```

```html
        background-position: center center;

        background-repeat: no-repeat;

        background-attachment: fixed;

        background-size: cover;

        background-color: #000033;

      }

    </style>

</head>

<body>

    <nav class="navbar navbar-expand-lg navbar-light" style="background-color: #e3f2fd;
margin-bottom: 15px;">

        <a class="navbar-brand" href="/" style="color: red; font-weight: bold;">News
App</a>

        <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">

          <span class="navbar-toggler-icon"></span>

        </button>


        <div class="collapse navbar-collapse" id="navbarSupportedContent">

          <ul class="navbar-nav mr-auto">

           <li class="nav-item">

             <a class="nav-link" href="/login" style="color: black;font-weight: 500;">Login
<span class="sr-only">(current)</span></a>

            </li>

            <li class="nav-item">

             <a class="nav-link" href="/register" style="color: black;font-weight:
500;">Register</a>

            </li>

           </ul>
```

```html
        </div>

      </nav>


  <center>

    <form id="form" action="/reg_res" method = "POST">

      <div class="form-group">

        <label for="exampleInputName1" id="ele">Email Address</label>

        <input type="email" class="form-control" id="exampleInputName1" name="email"
placeholder="Enter Your Email">

        <small id="emailHelp" class="form-text" style="font-weight: 600;">We'll never
share your email with anyone else.</small>

      </div>

      <div class="form-group">

        <label for="exampleInputEmail1" id="ele">Password</label>

        <input type="password" class="form-control" id="exampleInputEmail1" name =
"password" aria-describedby="emailHelp" placeholder="Enter Your Password">

      </div>

      <center><button type="submit" class="btn btn-outline-light"
id="button1">Submit</button></center>

    </form>

  </center>

</body>

</html>


result.html


<html lang="en">

<head>

  <meta charset="UTF-8">
```

```html
<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Status</title>


<link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/css/bootstrap.min.css"
integrity="sha384-
MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO"
crossorigin="anonymous">

<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-
q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.3/dist/umd/popper.min.js"
integrity="sha384-
ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIPm49"
crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/js/bootstrap.min.js"
integrity="sha384-
ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy"
crossorigin="anonymous"></script>


<style>
  h1{
    color:rgb(212, 200, 21);
  }

  .container{
    margin: 10%;
    width: 40%;
    background-color: rgb(126, 29, 45);
    border-style: solid;
    opacity: 0.9;
```

```
                }


        #link{
          text-decoration: underline;

          font-size:large;

          color: rgb(0, 238, 255);

          font-style: italic;

        }


        body{
          background-image: url('static/bg10.jpg');

          background-position: center center;

          background-repeat: no-repeat;

          background-attachment: fixed;

          background-size: cover;

          background-color: #000033;

        }


    </style>
</head>
<body>
    <nav class="navbar navbar-expand-lg navbar-light" style="background-color: #e3f2fd;
margin-bottom: 15px;">
        <a class="navbar-brand" href="/" style="color: red; font-weight: bold;">News
App</a>
        <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">
            <span class="navbar-toggler-icon"></span>
```

```html
        </button>


        <div class="collapse navbar-collapse" id="navbarSupportedContent">
          <ul class="navbar-nav mr-auto">
            <li class="nav-item">
              <a class="nav-link" href="/login" style="color: black;font-weight: 500;">Login <span class="sr-only">(current)</span></a>
            </li>
            <li class="nav-item">
              <a class="nav-link" href="/register" style="color: black;font-weight: 500;">Register</a>
            </li>
          </ul>
        </div>
      </nav>
    <center>
    <div class="container">
      <h1> {{ msg }} </h1>
      <h2><a href = "\login" id="link">login page</a></h2>
      <i style="color: white;">or</i>
      <h2><a href = "\register" id="link">Register page</a></h2>
    </div>
    </center>
</html>
</body>
</html>
```

TESTING

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	-	Karthick M
Sign up	Functional	Login page	Verify user has the option to sign up	Can visible	Yes visible	pass	Successful	-	Karthick m
Forgot password	Functional	Login page	Verify user has the option to forgot password	Yes the option is available	Option is available	pass	Successful	-	Kavin S

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	Karthik c, Kavinkumar e
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	-	Kavin s Karthik c

Result:

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

ADVANTAGES & DISADVANTAGES

Advantages:-

a. In this app news is already categorized.

b. Easily accessible and portable.

c. Better user experience.

d. Apps help you convert visitors to loyal readers.

e. Minute by minute updates of news.

f. This app helps you to get local news updates instantly.

g. To explore and discover trending news and topics.

h. News feeds for you based on your interest.

Disadvantages:-

i. Some apps demand a premium subscription from users.

j. Occurance of Advertisement disturbs the user.

k. Sometimes the news gives brief information.

l. Prevalence of fake and uncertain news can confuse the user and lead to misconception.

m. Fake news may mislead the readers.

CONCLUSION

We explored the feasibility of recognising 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 recognised 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 newsreader types need different user interfaces. We have demonstrated a method for monitoring users' news reading behavior 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.

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.

APPENDIX

App.py

```python
from flask import Flask,render_template, request, jsonify, session, redirect
#from flask_mysqldb import MySQL
from utils import category, find
from flask import cli
import ibm_db
import ibm_boto3
from ibm_botocore.client import Config, ClientError

COS_ENDPOINT="https://s3.jp-tok.cloud-object-storage.appdomain.cloud"
```

```python
COS_API_KEY_ID="t81QlQrO4G_j-QNhbFWbI3QKQqsBgDCAH559eJ3v9MQK"

COS_INSTANCE_CRN="crn:v1:bluemix:public:dashdb-for-transactions:eu-
gb:a/ea6a1bd5dd06461caa82d192286df2c3:76aa6ba3-452e-4003-a97e-3df150f69510::"




# Create resource https://s3.ap.cloud-object-storage.appdomain.cloud

cos = ibm_boto3.resource("s3",

    ibm_api_key_id=COS_API_KEY_ID,

    ibm_service_instance_id=COS_INSTANCE_CRN,

    config=Config(signature_version="oauth"),

    endpoint_url=COS_ENDPOINT

)


"""def get_bucket_contents(bucket_name):

    print("Retrieving bucket contents from: {0}".format(bucket_name))

    try:

        files = cos.Bucket(bucket_name).objects.all()

        files_names = []

        for file in files:

            files_names.append(file.key)

            print("Item: {0} ({1} bytes).".format(file.key, file.size))

        return files_names

    except ClientError as be:

        print("CLIENT ERROR: {0}\n".format(be))

    except Exception as e:

        print("Unable to retrieve bucket contents: {0}".format(e))"""
```

```python
#cli.show_server_banner = lambda *_: None


app = Flask(__name__)



#cloud

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=ea286ace-86c7-4d5b-8580-
3fbfa46b1c66.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31505;SECURITY=S
SL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=cnj20398;PWD=nUQprGGfXGDB
d2kg;","","")


#mysql

"""app.config['MYSQL_HOST'] = 'localhost'

app.config['MYSQL_USER'] = 'root'

app.config['MYSQL_PASSWORD'] = ''

app.config['MYSQL_DB'] = 'flask'


mysql = MySQL(app)"""


@app.route('/')
def index():

    #files = get_bucket_contents('flaskapp123')

    return render_template('index.html') #, files = files


@app.route('/register')
def register():

    return render_template('register.html')


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

```python
def reg_res():
    if request.method == 'GET':
        msg = "Please Login!!"
        return render_template("result.html", msg = msg)
    if request.method == 'POST':
     try:
        email = request.form['email']
        password = request.form['password']
        #cursor = mysql.connection.cursor()
        #cursor.execute('INSERT INTO user(email, password) VALUES(%s, %s)',(email,
password))
        #mysql.connection.commit()

        sql = "SELECT * FROM USER WHERE EMAIL=?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt,1,email)
        ibm_db.execute(stmt)
        user = ibm_db.fetch_assoc(stmt)

        if user:
          msg = "User already exist!!"
        else:

          sql = "INSERT INTO user(email, password) VALUES(?, ?)"
          stmt = ibm_db.prepare(conn, sql)
          ibm_db.bind_param(stmt, 1, email)
          ibm_db.bind_param(stmt, 2, password)
          ibm_db.execute(stmt)
```

```python
            msg = "User added successfully"

        except:
            msg = "error!! Can't add user"
            cursor.rollback()
        finally:
            return render_template("result.html", msg = msg)
            cursor.close()


@app.route("/login")
def login():
    return render_template('login.html')


@app.route("/log_res", methods = ['POST', 'GET'])
def log_res():
    if request.method == 'GET':
        msg = "Invalid Credentials!!"
        return render_template("result.html", msg = msg)


    if request.method == 'POST':
        try:
            email = request.form['email']
            password = request.form['password']
            #cursor = mysql.connection.cursor()
            #sql = "SELECT * FROM USER WHERE EMAIL=%s AND PASSWORD=%s",(email, password)
            #cursor.execute(sql)
            #data = cursor.fetchone()
```

```python
            #dbemail = data[1]

            #dbpassword = data[2]

            sql = "SELECT * FROM USER WHERE EMAIL=?"

            stmt = ibm_db.prepare(conn, sql)

            ibm_db.bind_param(stmt,1,email)

            ibm_db.execute(stmt)

            user = ibm_db.fetch_tuple(stmt)


            #if password == dbpassword:

            if user[2]==password:

                session['status']="ok"

                return render_template("home.html")

                #return redirect("http://127.0.0.1/home")

            else:

                msg = "Invalid Credentials!!"

                return render_template("result.html", msg = msg)


        except TypeError as e:

            msg = "Invalid Credentials!!"

            return render_template("result.html", msg = msg)


@app.route('/logout')

def logout():

    if 'status' in session:

        session.pop('status',None)

        msg = "logout successful!!"

        return render_template("result.html", msg = msg)
```

```python
    else:
        msg = "User already logged out!!"
        return render_template("result.html", msg = msg)


@app.route('/home')
def getVariable():
    if 'status' in session:
        return render_template('home.html')
    else:
        msg = "Please Login!!"
        return render_template("result.html", msg = msg)


#countries
"""@app.route('/india')
def india():
    news_articles = country("in")
    return render_template("news.html", news_articles=news_articles)"""


#category
@app.route('/entertainment')
def entertainment():
    if 'status' in session:
        news_articles = category("in","entertainment")
        return render_template("news.html", news_articles=news_articles, cat="Entertainment")
    else:
        msg = "Please Login!!"
        return render_template("result.html", msg = msg)
```

```python
@app.route('/sports')
def sports():
    if 'status' in session:
        news_articles = category("in","sports")
        return render_template("news.html", news_articles=news_articles, cat="Sports")
    else:
        msg = "Please Login!!"
        return render_template("result.html", msg = msg)


@app.route('/technology')
def technology():
    if 'status' in session:
        news_articles = category("in","technology")
        return render_template("news.html", news_articles=news_articles, cat="Technology")
    else:
        msg = "Please Login!!"
        return render_template("result.html", msg = msg)


@app.route('/science')
def science():
    if 'status' in session:
        news_articles = category("in","science")
        return render_template("news.html", news_articles=news_articles, cat="Science")
    else:
        msg = "Please Login!!"
        return render_template("result.html", msg = msg)
```

```python
@app.route('/health')
def health():
    if 'status' in session:
        news_articles = category("in","health")
        return render_template("news.html", news_articles=news_articles, cat="Health")
    else:
        msg = "Please Login!!"
        return render_template("result.html", msg = msg)


@app.route('/business')
def business():
    if 'status' in session:
        news_articles = category("in","business")
        return render_template("news.html", news_articles=news_articles, cat="Business")
    else:
        msg = "Please Login!!"
        return render_template("result.html", msg = msg)


#search
@app.route('/search', methods = ['POST', 'GET'])
def search():
    if request.method == 'POST':
        if 'status' in session:
            sr = request.form['search']
            news_articles = find(sr)
            return render_template("news.html", news_articles=news_articles)
```

```python
    else:

        msg = "Please Login!!"

        return render_template("result.html", msg = msg)


if __name__ == '__main__':

    app.run(port='90', debug=True)


#docker build -t docker_flask .
```

utils.py

```python
import requests

from decouple import config


NEWS_API_KEY = config('NEWS_API_KEY')


"""def country(country1):

    news_data = requests.get(f'https://newsapi.org/v2/top-
headlines?country={country1}&apiKey={NEWS_API_KEY}').json()

    return news_data['articles']"""




def category(arg1,arg2):

    news_data = requests.get(f'https://newsapi.org/v2/top-
headlines?country={arg1}&category={arg2}&apiKey={NEWS_API_KEY}').json()

    return news_data['articles']


def find(arg3):

    news_data =
requests.get(f'https://newsapi.org/v2/everything?q={arg3}&apiKey={NEWS_API_KEY}').
json()
```

```
    return news_data['articles']
```

home.html

```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>Home</title>


    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/css/bootstrap.min.css" integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO" crossorigin="anonymous">

    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.3/dist/umd/popper.min.js" integrity="sha384-ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIPm49" crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/js/bootstrap.min.js" integrity="sha384-ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy" crossorigin="anonymous"></script>


    <script>
        function getnews(){

            fetch("https://newsapi.org/v2/top-headlines?category=general&apiKey=cdc40c3ada3e44b9b096688f732b4116")
```

```
        .then(a=>a.json())
        .then(response =>{
            for(var i=0; i<response.articles.length; i++){
                document.getElementById("output").innerHTML+="<div class='table-
responsive' style='color:white;'><table class='table table-sm table-hover table-striped
table-dark'><tbody style='font-size: 15px;'><tr><td><img
style='width:300px;height:200px;border-style:solid;'
src='"+response.articles[i].urlToImage+"'></td><td><h3 style='font-size:
20px;'>"+response.articles[i].title+"</h3><h4 style='font-size: 18px;color:
lime;'>"+response.articles[i].source.name+"</h4><br>"+response.articles[i].description
+" <a href='"+response.articles[i].url+"'
target='_blank'>"+response.articles[i].url+"</a></td></tr></tbody></div>";
            }
        })
    }
    </script>
</head>
<body onload="getnews()" style="background-color: rgb(2, 1, 12);">


  <div class="container-fluid" style="background: linear-gradient(to bottom, #000099
0%, #003333 100%);">
    <div class="row">
      <div class="col-md-12 mt-3 mb-3">
        <h2 class="text-center" style="color: white">Latest News Headlines</h2>
      </div>
    </div>
  </div>


    <nav class="navbar navbar-expand-lg navbar-light" style="background-color: #e3f2fd;
margin-bottom: 15px;">
      <a class="navbar-brand" href="/" style="color: red; font-weight: bold;">News
App</a>
```

```html
<button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

    <span class="navbar-toggler-icon"></span>

</button>


<div class="collapse navbar-collapse" id="navbarSupportedContent">

  <ul class="navbar-nav mr-auto">

    <li class="nav-item active">

      <a class="nav-link active" href="home" style="font-weight: 500;">Home</a>

    </li>

    <li class="nav-item dropdown">

      <a class="nav-link dropdown-toggle active" style="font-weight: 500;" href="#" id="navbarDropdown" role="button" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">

        Category

      </a>

      <div class="dropdown-menu" aria-labelledby="navbarDropdown">

        <a class="dropdown-item" href="entertainment">Entertainment</a>

        <a class="dropdown-item" href="sports">Sports</a>

        <a class="dropdown-item" href="technology">Technology</a>

        <a class="dropdown-item" href="science">Science</a>

        <a class="dropdown-item" href="health">Health</a>

        <a class="dropdown-item" href="business">Business</a>

      </div>

    </li>

    <li class="nav-item">

      <a class="nav-link" href="/logout" style="color: black;font-weight: 500;">Logout <span class="sr-only">(current)</span></a>
```

```html
        </li>

      </ul>

      <form class="form-inline my-2 my-lg-0" action="/search" method = "POST">

        <input class="form-control mr-sm-2" type="search" placeholder="Search" aria-label="Search" name="search">

        <button class="btn btn-outline-success my-2 my-sm-0" type="submit">Search</button>

      </form>

    </div>

  </nav>


  <div id="output"></div>


  <script>
    window.watsonAssistantChatOptions = {

      integrationID: "380464dc-d472-4156-bdf1-3ba4aca9e386", // The ID of this integration.

      region: "jp-tok", // The region your integration is hosted in.

      serviceInstanceID: "5c2a539f-09e4-4815-bfe8-33e934287400", // The ID of your service instance.

      onLoad: function(instance) { instance.render(); }

    };

    setTimeout(function(){

      const t=document.createElement('script');

      t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" + (window.watsonAssistantChatOptions.clientVersion || 'latest') + "/WatsonAssistantChatEntry.js";

      document.head.appendChild(t);

    });

  </script>
```

```html
</body>
</html>
index.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>Welome</title>


    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/css/bootstrap.min.css"
integrity="sha384-
MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO"
crossorigin="anonymous">

    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-
q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.3/dist/umd/popper.min.js"
integrity="sha384-
ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIPm49"
crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/js/bootstrap.min.js"
integrity="sha384-
ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy"
crossorigin="anonymous"></script>


    <style>
      body{
        background-image: url('https://cvs-images.s3.jp-tok.cloud-object-
```

```
storage.appdomain.cloud/bg8.jpg');

        background-position: center center;

        background-repeat: no-repeat;

        background-attachment: fixed;

        background-size: cover;

        background-color: #000033;

    }


    </style>
</head>
<body>
    <nav class="navbar navbar-expand-lg navbar-light" style="background-color: #e3f2fd;
margin-bottom: 15px;">

        <a class="navbar-brand" href="/" style="color: red; font-weight: bold;">News
App</a>

        <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">

          <span class="navbar-toggler-icon"></span>

        </button>


        <div class="collapse navbar-collapse" id="navbarSupportedContent">

          <ul class="navbar-nav mr-auto">

            <li class="nav-item">

              <a class="nav-link" href="/login" style="color: black;font-weight: 500;">Login
<span class="sr-only">(current)</span></a>

            </li>

            <li class="nav-item">

              <a class="nav-link" href="/register" style="color: black;font-weight:
500;">Register</a>
```

```html
        </li>
      </ul>
    </div>
  </nav>


  <div class="container-fluid">
    <div class="row">
      <div class="col-md-12 mt-3 mb-3">
        <h1 class="text-center" style="color: white; margin-top: 20%;">Welcom To
News App!!</h1>
      </div>
    </div>
  </div>
</body>
</html>
```

login.html

```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>login</title>


  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/css/bootstrap.min.css"
integrity="sha384-
MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO"
crossorigin="anonymous">

  <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-
q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
```

```html
crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.3/dist/umd/popper.min.js"
integrity="sha384-
ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIPm49"
crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/js/bootstrap.min.js"
integrity="sha384-
ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy"
crossorigin="anonymous"></script>


    <style>
        h3{
            color: antiquewhite;
        }

        #form{
            margin: 10%;
            width: 30%;
            height:fit-content;
            background-color: burlywood;
            border-style: solid;
            border-radius: 10px;
            padding: 10px;
            text-align: left;
            opacity: 0.9;
        }

        #ele{
            padding: 10px;
            color: rgb(37, 22, 3);
```

```html
      font-weight: bold;

    }


    #button1{

      font-weight: bold;

    }


    body{

      background-image: url('static/bg1.jpg');

      background-position: center center;

      background-repeat: no-repeat;

      background-attachment: fixed;

      background-size: cover;

      background-color: #000033;

    }

  </style>

</head>

<body>

  <nav class="navbar navbar-expand-lg navbar-light" style="background-color: #e3f2fd;
margin-bottom: 15px;">

    <a class="navbar-brand" href="/" style="color: red; font-weight: bold;">News
App</a>

    <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">

      <span class="navbar-toggler-icon"></span>

    </button>


    <div class="collapse navbar-collapse" id="navbarSupportedContent">
```

```html
        <ul class="navbar-nav mr-auto">

          <li class="nav-item">

            <a class="nav-link" href="/login" style="color: black;font-weight: 500;">Login <span class="sr-only">(current)</span></a>

          </li>

          <li class="nav-item">

            <a class="nav-link" href="/register" style="color: black;font-weight: 500;">Register</a>

          </li>

        </ul>

      </div>

    </nav>


    <center>

      <form id="form" action="/log_res" method = "POST">

        <div class="form-group">

          <label for="exampleInputName1" id="ele">Email Address</label>

          <input type="email" class="form-control" id="exampleInputName1" name="email" placeholder="Enter Your Email">

          <small id="emailHelp" class="form-text" style="font-weight: 600;">We'll never share your email with anyone else.</small>

        </div>

        <div class="form-group">

          <label for="exampleInputEmail1" id="ele">Password</label>

          <input type="password" class="form-control" id="exampleInputEmail1" name = "password" aria-describedby="emailHelp" placeholder="Enter Your Password">

        </div>

        <center><button type="submit" class="btn btn-outline-dark" id="button1">Submit</button></center>

      </form>
```

```html
      </center>

  </body>

</html>


news.html

<!DOCTYPE html>

<html lang="en">

  <head>

    <!-- Required meta tags -->

    <meta charset="utf-8" />

    <meta name="viewport" content="width=device-width, initial-scale=1" />


    <!-- Bootstrap CSS 4-->
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/css/bootstrap.min.css"
integrity="sha384-
MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO"
crossorigin="anonymous">

    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-
q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.3/dist/umd/popper.min.js"
integrity="sha384-
ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIPm49"
crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/js/bootstrap.min.js"
integrity="sha384-
ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy"
crossorigin="anonymous"></script>


    <!-- Bootstrap CSS 5-->

    <link
```

```html
      href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"
      rel="stylesheet"
      integrity="sha384-
1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"
      crossorigin="anonymous"
    />


    <title>Latest News Headlines</title>
  </head>
  <body>
    <div class="container-fluid" style="background-color: #00a3a3;">
      <div class="row">
        <div class="col-md-12 mt-3 mb-3">
          <h2 class="text-center" style="color: white">{{ cat }}</h2>
        </div>
      </div>
    </div>
    <nav class="navbar navbar-expand-lg navbar-light" style="background-color: #e3f2fd;
margin-bottom: 15px;">
      <a class="navbar-brand" href="/" style="color: red; font-weight: bold;">News App</a>
      <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>


      <div class="collapse navbar-collapse" id="navbarSupportedContent">
        <ul class="navbar-nav mr-auto">
          <li class="nav-item active">
```

```html
      <a class="nav-link active" href="home" style="font-weight: 500;">Home</a>

    </li>

    <li class="nav-item dropdown">

      <a class="nav-link dropdown-toggle active" style="font-weight: 500;" href="#"
id="navbarDropdown" role="button" data-toggle="dropdown" aria-haspopup="true" aria-
expanded="false">

       Category

      </a>

      <div class="dropdown-menu" aria-labelledby="navbarDropdown">

       <a class="dropdown-item" href="entertainment">Entertainment</a>

       <a class="dropdown-item" href="sports">Sports</a>

       <a class="dropdown-item" href="technology">Technology</a>

       <a class="dropdown-item" href="science">Science</a>

       <a class="dropdown-item" href="health">Health</a>

       <a class="dropdown-item" href="business">Business</a>

      </div>

    </li>

    <li class="nav-item">

      <a class="nav-link" href="/logout" style="color: black;font-weight: 500;">Logout
<span class="sr-only">(current)</span></a>

    </li>

    </ul>

    <form class="form-inline my-2 my-lg-0" action="/search" method = "POST">

      <input class="form-control mr-sm-2" type="search" placeholder="Search" aria-
label="Search" name="search">

      <button class="btn btn-outline-success my-2 my-sm-0"
type="submit">Search</button>

    </form>

   </div>
```

```html
      </nav>



  <div class="row mt-5">
    <div class="col-md-2"></div>
    <div class="col-md-8">
      <div class="row">
        {% for news in news_articles %}
        <div class="col-md-4 mb-5">
          <div class="card" style="width: 18rem">
            <img src="{{ news.urlToImage }}" class="card-img-top" alt="..." />
            <div class="card-body">
              <h5 class="card-title">{{ news.title }}</h5>
              <p class="card-text">{{ news.description }}</p>
              <a href="{{ news.url }}" class="btn btn-primary">Read More</a>
            </div>
          </div>
        </div>
        {% endfor %}
      </div>
    </div>
    <div class="col-md-2"></div>
  </div>
  <!-- Bootstrap Bundle with Popper -->
  <script
    src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"
    integrity="sha384-
ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p"
```

```html
    crossorigin="anonymous"
  ></script>

  <script>
    window.watsonAssistantChatOptions = {
      integrationID: "380464dc-d472-4156-bdf1-3ba4aca9e386", // The ID of this integration.
      region: "jp-tok", // The region your integration is hosted in.
      serviceInstanceID: "5c2a539f-09e4-4815-bfe8-33e934287400", // The ID of your service instance.
      onLoad: function(instance) { instance.render(); }
    };
    setTimeout(function(){
      const t=document.createElement('script');
      t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" + (window.watsonAssistantChatOptions.clientVersion || 'latest') + "/WatsonAssistantChatEntry.js";
      document.head.appendChild(t);
    });
  </script>

  </body>
</html>
```

register.html

```html
<html lang="en">
<head>
  <meta charset="UTF-8">
```

```html
<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Register</title>


    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/css/bootstrap.min.css"
integrity="sha384-
MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO"
crossorigin="anonymous">

    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-
q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.3/dist/umd/popper.min.js"
integrity="sha384-
ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIPm49"
crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/js/bootstrap.min.js"
integrity="sha384-
ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy"
crossorigin="anonymous"></script>


  <style>
    h3{
        color: antiquewhite;
    }

    #form{
        margin: 10%;
        width: 30%;
        height:fit-content;
        color:antiquewhite;
        background-color: #202020;
```

```css
    border-style: solid;

    border-radius: 10px;

    padding: 10px;

    text-align: left;

    opacity: 0.9;

}


#ele{

    padding: 10px;

    color: rgb(250, 248, 245);

    font-weight: bold;

}


#button1{

  font-weight: bold;

  color: #fbfbfd;

}


#button1:hover{

  color: #000033;

}


h3{

  color: antiquewhite;

}


body{
```

```
        background-image: url('static/bg2.jpg');

        background-position: center center;

        background-repeat: no-repeat;

        background-attachment: fixed;

        background-size: cover;

        background-color: #000033;

      }

    </style>

</head>

<body>

    <nav class="navbar navbar-expand-lg navbar-light" style="background-color: #e3f2fd;
margin-bottom: 15px;">

      <a class="navbar-brand" href="/" style="color: red; font-weight: bold;">News
App</a>

      <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">

        <span class="navbar-toggler-icon"></span>

      </button>


      <div class="collapse navbar-collapse" id="navbarSupportedContent">

        <ul class="navbar-nav mr-auto">

          <li class="nav-item">

            <a class="nav-link" href="/login" style="color: black;font-weight: 500;">Login
<span class="sr-only">(current)</span></a>

          </li>

          <li class="nav-item">

            <a class="nav-link" href="/register" style="color: black;font-weight:
500;">Register</a>

          </li>
```

```html
        </ul>
      </div>
    </nav>


  <center>
    <form id="form" action="/reg_res" method = "POST">
      <div class="form-group">
        <label for="exampleInputName1" id="ele">Email Address</label>
        <input type="email" class="form-control" id="exampleInputName1" name="email" placeholder="Enter Your Email">
        <small id="emailHelp" class="form-text" style="font-weight: 600;">We'll never share your email with anyone else.</small>
      </div>
      <div class="form-group">
        <label for="exampleInputEmail1" id="ele">Password</label>
        <input type="password" class="form-control" id="exampleInputEmail1" name = "password" aria-describedby="emailHelp" placeholder="Enter Your Password">
      </div>
      <center><button type="submit" class="btn btn-outline-light" id="button1">Submit</button></center>
    </form>
  </center>
</body>
</html>


result.html


<html lang="en">
<head>
```

```html
<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>Status</title>


    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/css/bootstrap.min.css"
integrity="sha384-
MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO"
crossorigin="anonymous">

    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-
q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.3/dist/umd/popper.min.js"
integrity="sha384-
ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIPm49"
crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.1.3/dist/js/bootstrap.min.js"
integrity="sha384-
ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy"
crossorigin="anonymous"></script>


  <style>
    h1{
      color:rgb(212, 200, 21);
    }

    .container{
      margin: 10%;
      width: 40%;
      background-color: rgb(126, 29, 45);
      border-style: solid;
```

```css
        opacity: 0.9;

    }


    #link{
      text-decoration: underline;

      font-size:large;

      color: rgb(0, 238, 255);

      font-style: italic;

    }


    body{
      background-image: url('static/bg10.jpg');

      background-position: center center;

      background-repeat: no-repeat;

      background-attachment: fixed;

      background-size: cover;

      background-color: #000033;

    }

  </style>
</head>
<body>
  <nav class="navbar navbar-expand-lg navbar-light" style="background-color: #e3f2fd;
margin-bottom: 15px;">
    <a class="navbar-brand" href="/" style="color: red; font-weight: bold;">News
App</a>
    <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">
```

```html
          <span class="navbar-toggler-icon"></span>

        </button>


      <div class="collapse navbar-collapse" id="navbarSupportedContent">
        <ul class="navbar-nav mr-auto">
          <li class="nav-item">
            <a class="nav-link" href="/login" style="color: black;font-weight: 500;">Login <span class="sr-only">(current)</span></a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="/register" style="color: black;font-weight: 500;">Register</a>
          </li>
        </ul>
      </div>
    </nav>
    <center>
    <div class="container">
      <h1> {{ msg }} </h1>
      <h2><a href = "\login" id="link">login page</a></h2>
      <i style="color: white;">or</i>
      <h2><a href = "\register" id="link">Register page</a></h2>
    </div>
    </center>
</html>
</body>
</html>
```

GITHUB

https://github.com/IBM-EPBL/IBM-Project-40274-1660627010

Project Demo Link

https://www.youtube.com/embed/SayuPJRfoJI