# **NEWS TRACKER APPLICATION USING IBM CLOUD**

A PROJECT REPORT

Submitted by

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In partial fulfillment for the award of the degree of BACHELOR OF ENGINEERING

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## **ANNA UNIVERSITY : CHENNAI 600025**

## **BONAFIDE CERTIFICATE**

Certificate that this project report "NEWS TRACKER APPILCATION" is the bonafide work of "ANDREW G SELWYN (953219106004), THIRUGNANASAMBANTHAM K (953219106040), KINGSLYKIRUBAKARAN L (953219106014), BEVIN NANTHA KUMAR V (953219106007)" who carried out the project work under my supervision.

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University VOC College of Engineering,

Thoothukudi.

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# 1.Introduction:

## 1.1 Project Overview:

The application is exclusively for the news reader's who need the whole update in their hand. It consists of various news on the daily basis which can be easily readable for the user's. The whole regional news can be covered with each domain. There is many popular people's account in our application and the people can be followed to get their daily updates.

Integrate the application with news APIs and store the data in the database. The database will have all the details and the user can search the news by using a search bar.

## 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:

The existing system has many Features which is only implemented in some countries. The system is made up of HTML, CSS and Javascript. The existing system provide many services to the user based on their needs. The system contains every news which user can sort by their own. The system has an account of popularity person in order to follow them and to know their news.

## 2.2 References:

#### PAPER 1

**TITLE:** Exploring mobile news reading interactions for news app Personalization

**AUTHOR:** Marios Constantinides, John Dowell.

#### DESCRIPTION:

As news is increasingly accessed on smartphones and tablets, the need for personalising news app interactions is apparent.

## PAPER 2:

**TITLE**: Survey on Virtual Assistant

**AUTHOR**: Amrita Sunil Tulshan

#### **DESCRIPTION:**

Many services were covered by these assistants but still there are some improvements required in voice recognition, contextual understanding and hand free interaction

## 2.3 Problem Statement Definition:

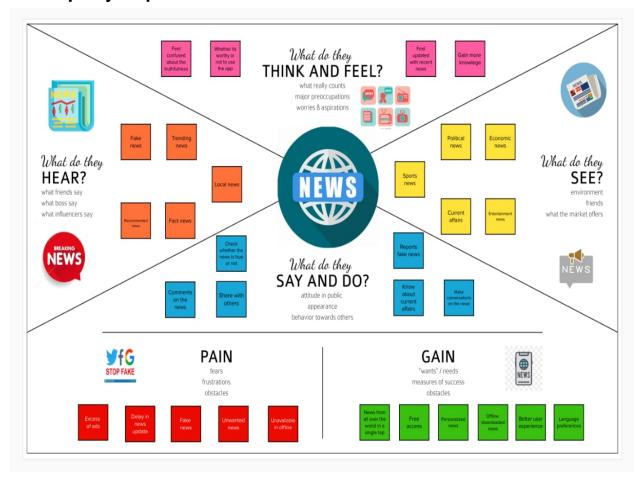
Problem Statement (PS)	I am (Custome r)	I'm trying to	But	Because	Which makes mefeel
PS-1	I am Student	I'm trying to get quick access of technology news	But the application push the irrelevant news	Because of poor optimization	Which makes me feel annoying
PS-2 I	I am blogger	I'm trying to read specific News articles	But it displays unrelated articles	Because of poor optimized filter option	Which makes me feel disappointed

## **Customer Problem Statement:**

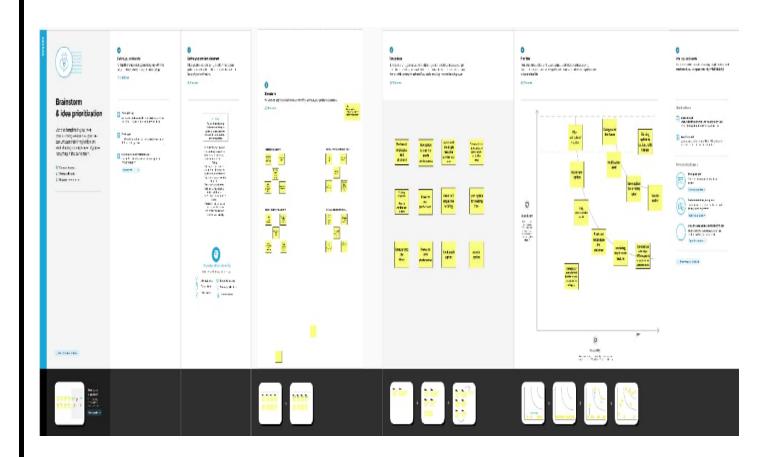
A well-articulated customer problem statement allows us to find the ideal solution for the challenges our customers face. Throughout the process, you'll also be able to empathize with your customers, which helps you better understand how they perceive the news. There may be many fake news and the news can be filtered by news api.

# 3. IDEATION & PROPOSED SOLUTION:

# 3.1 Empathy Map Canvas:



# 3.2 Ideation & Brainstorming:



# 3.3 Proposed Solution:

S.No	Parameter	Description
1	Problem Statement (Problem	To keep track of daily news usingCloud Computing.
	to be solved)	
2	Idea / Solution description	Nowadays most of the people do not have the time read a
		newspaper in their daily life.
		🛮 But they have to keep update about the incidents occurs in
		theirsurroundings.
		🛮 So our app is very much useful to know daily news in mobile
		phones orPC.
3	Novelty / Uniqueness	🛮 It is not like any apps, it shows relevant information and shows
		onlywhat we need.
		${{\mathbb Z}}$ With the help of our customer location, the app can automatically
		post the news in their surroundings
4	Social Impact / Customer	By using our application, customer can read and even they can
	Satisfaction	hear the news with the help of the voice assistant.
5	Business Model (Revenue	Money for buying newspaper can be saved and we can update the
	Model)	same information in our mobile phones or PC.
6	Scalability of the Solution	
		M Whatever the news we want , we can get the information
		immediately within a moment. 🛚 This makes our app more
		scalable.

## 3.4 Problem Solution fit:

#### 1. CUSTOMER SEGMENT(S) 6. CUSTOMER CONSTRAINTS 5. AVAILABLE SOLUTIONS plore Which solutions are available to the customers when they face AS the problem or need to get the job done? What have they tried in problem or need to get the job done? What have they tried in and paper is an alternative to digital note taking. What constraints prevent your customers from taking action or line their choices of solutions? i.e. spending power, budget, no cash, network connection, available devices. Who is your customer? i.e. working parents of 0-5 y.o. Kids The report of or on a news event occurring within 24 hours prior to the broadcast or other distribution ÀS, Harnessing wide API to incorporate The main constraints are memory, battery life, ability to adapt to different screen sizes and orientations, security, regular updating of news. The user thereof by means of video, film, photography or other sound and differentia interacts with the application. image reproduction technology that has been produced and edited into a and network bandwidth. Integration the application with news news story. APIs and store the data in the database. 2. JOBS-TO-BE-DONE / PROBLEMS J&P 9. PROBLEM ROOT CAUSE RC 7. BEHAVIOUR What does your customer do to address the problem and pet the job done? Ce. directly related: find the right solar panel installer, calculate Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore What is the real reason that this problem exists? What is the back story behind the different sides. need to do this job? i.e. customers have to do it because of the change in usage and benefits; indirectly associated; customers spend free time on volunteering work (i.e. Greenpeace) By collecting relevant As our lives are busy nowadays, we often feel we need more than 24 hours. A day to cope up with every this to be updated our self via news in our schedule. Well, that's not possible but reducing the time by using the conventional method of reading news can help at any time in any place to be updated. User Registration & login via email & social information from the user profiles. Browse News Categories. Search Bar is given. Frequently searched message sent through through app. Cloud is used to email and SMS. Underline & save text. Save news store and transmit the data by and quotes for reading later. Machine learning using DB2.Weather APIs are based news on user preferences. Social employed to assist the user in integration for sharing news. Push notifications and news alerts via emails and SMS. Fake news making decision. The user could will be detected. take decision through a mobile application. SL СН 3. TRIGGERS 10. YOUR SOLUTION 8. CHANNELS of BEHAVIOR What triggers customers to set? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news If you are working on an existing business, write do fill in the canvas, and check how much it fits reality. ions do customers take online? Extract online channels from #7 If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a Apps allow the user to perform a task better with User facing issues in providing the help of the gesture. It is very easy to navigate properinformation about the news. through,unlike the website. A well designed Our app collects the relevant information and No properinternet connection that application that can perform fast. sends news to the main server. It also collects leads to reduced speed of live news ٥ 8.2 OFFLINE the weather data from the weather API. which affects the user's time. factions do customers take offline? Extract offline channels from #7 and FeasibleUI to deploy the application in simple Users can access records, collect data ģ0 and store images or access manuals M without cellservice or a Wi-Fi connection. 4. EMOTIONS: BEFORE / AFTER How do customers feel when they face a problem or a job and afterwards? i.e. Lost, insecure > confident, in control - use it in your communication strates BEFORE: Lack of knowledge in cloud computing Random decisions AFTER: Data from reliable sources Correct

# 4. REQUIREMENT ANALYSIS:

# 4.1 Functional requirement:

Following are the functional requirements of the proposed solution.

S.No	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)		
1	User Installation	User can install the application through playstore		
2	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN		
3	User Confirmation	Confirmation via Email Confirmation via OTP		
4	User Login	Login using ID and password		
5	User Interaction	User will receive the news according to hisinterests.		
6	User Logout	User can completely log out fromdevice andit isnot mandatory.		

# 4.2 Non-Functional requirements:

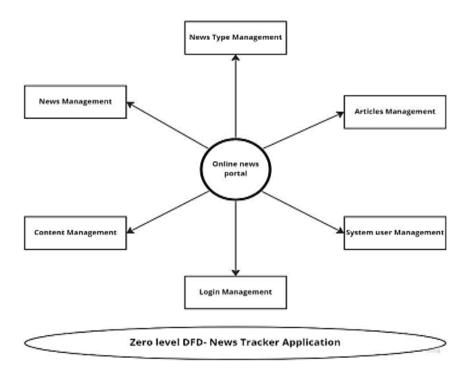
Following are the non-functional requirements of the proposed solution.

S.No	Non-Functional	Description
	Requirement	
1	Usability	The usability of the application is very highbecause the number of users are very highandeveryone wants to know the accurate news.
2	Security	The information in user's profile is completelysafe with strong passwords. The publishednewscan't be modified to spread fake news.
3	Reliability	The application should deliver only reliablecontent from trusted sources.
4	Performance	The performance of the app should be perfect. It should be smooth and interactive without anyissues.
5	Availability	Continuous availability of our service must be provided all the time with the support of internet.
6	Scalability	The application should run easily with5000users at the same time. The Scalability will be increased by increase of users.

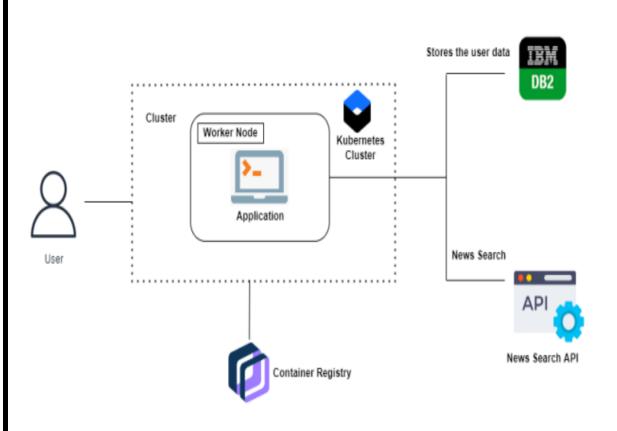
# 5. PROJECT DESIGN:

# 5.1 Data flow diagram:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirementgraphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.



## 5.2 Solution & Technical Architecture:



# Table-1: Components & Technologies:

S.No			
	Component	Description	Technology
1	User Interface	The user can interact with the application to know about the trending news	HTML, CSS, JavaScript / React Js etc.
2	Application Logic-1	The application contains this resource gives you basic understanding of Flask.	Python Flask.
3	Application Logic-2	The application contains the news sub-division like business news, economic news and general news	IBM Watson STT service
4	Database	User details are getting stored in the MySQL database.	MySQL, etc.
5	Cloud Database	With the use of cloud, media coverage issue cannot be occurred and the images can be accessed via cloud	IBM DB2.

# **5.3 User Stories:**

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

User Type	Functional	User				
	Requirement	Story	User Story / Task		Priority	Release
	(Epic)	Number				
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering email,	register for the application by I can access my account dashboad		Sprint-1
			password, and name			
		USN-2	As a user, I will redirected to the login page	I can access the web application	High	Sprint-1
		USN-3	As a user, I will register for the application through Gmail account	I can register & access the dashboard with Username login	Low	Sprint-2
	Login	USN-4	As a user, I can log into the application by entering Username & password	I can view all types of information through this application	High	Sprint-1
	Dashboard	USN-1	As a user, I can log into the application and look into my dashboard	I can Look into My Dashboard after my login	Low	Sprint-1
		USN-2	As a user, I can log into the application and update my personal data	I can view the personal data which can be updated by the user	Low	Sprint-2
		USN-3	As a user, I can log into the application and read news based on my filter contents	News contents are filtered based on the user needs	High	Sprint-1

# **6. PROJECT PLANNING AND SCHEDULING:**

## **Project Tracker, Velocity & Burn down Chart:**

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	5 Days	01 Nov 2022	07 Nov 2022	20	05 Nov 2022
Sprint-2	20	5 Days	06 Nov 2022	07 Nov 2022	20	10 Nov 2022
Sprint-3	20	5 Days	02 Nov 2022	08 Nov 2022	20	15 Nov 2022
Sprint-4	20	4 Days	02 Nov 2022	08 Nov 2022	20	19 Nov 2022

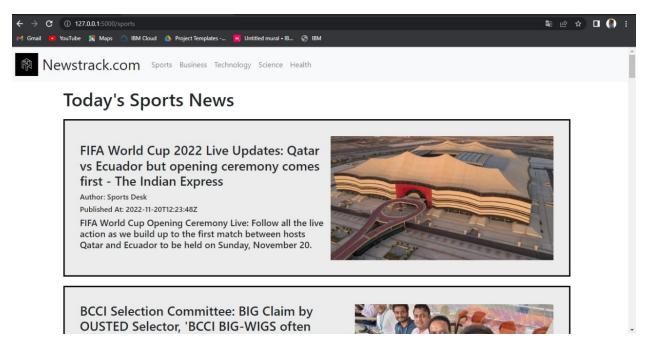
## **Sprint Delivery Schedule:**

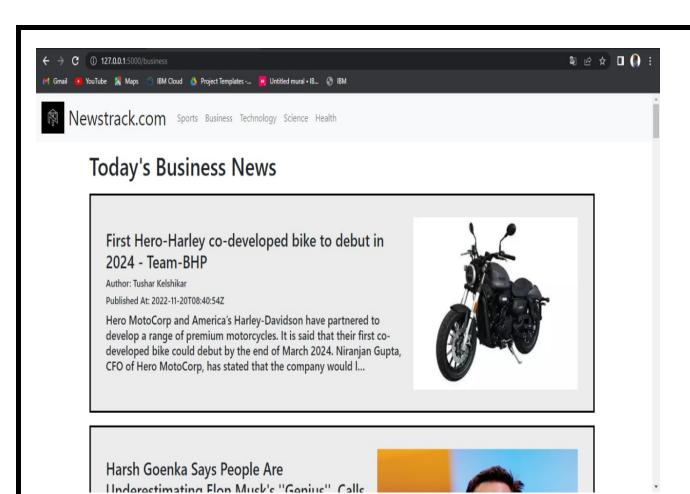
Velocity We have a 6-day sprint duration, and the velocity of the team is 20 (points per sprint). Calculating the team's average velocity (**AV**) per iteration unit (story points per day)

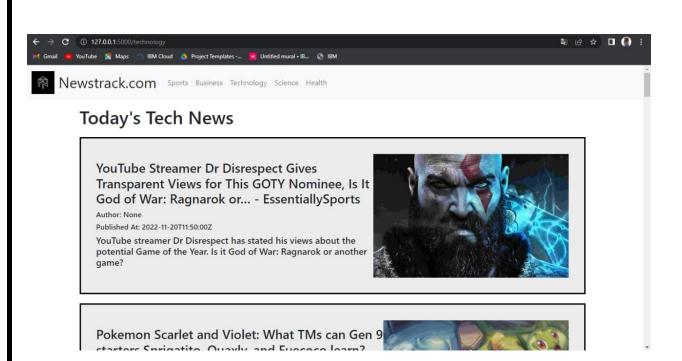
AV = sprint duration/velocity =20/6=3.33

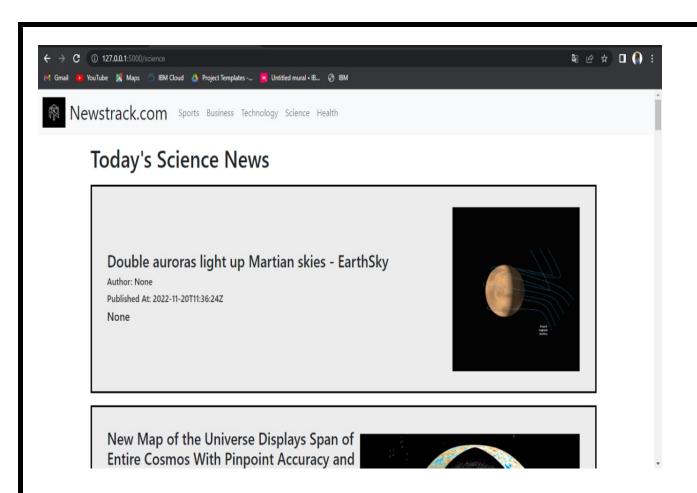
# 7. CODING AND SOLUTIONING (Explain the features added in the project along with code):

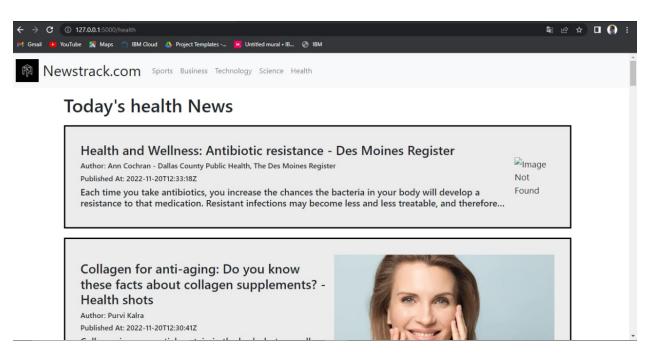












## 9. ADVANTAGES & DISADVANTAGES

## **ADVANTAGES:**

- Easily track the news
- Reduce paper works
- \[
  \begin{align\*}
  \text{ Limitations in spending.}
  \end{align\*}
  \]
- Manage every news dynamically
- Well suitable for urging people

#### **DISADVANTAGES:**

- More dependent on mobile phones
- Initially difficult to understand for uneducated people

## 10. CONCLUSION:

The purpose of the project is to develop an application which will display news articles and videos verified and approved at backend. User can follow the eminent personality accounts to get their related news daily.

The scope of the project includes followings:

Functional specification document to describe the complete system in low level. User interface design for website and mobile phone for both iOS and Android. Development of all functional requirements as proposed for the mobile application. Setting up the system on live server in ready for use condition.

## 11. FUTURE SCOPE:

The Existing News tracker website or application have basic user interface which lag on some areas and the news were dynamically changed according to the time.

In future, we are planning to add advertisements which make high revenue.

- ☑ User can browse news articles and videos on various categories by searching through searchbox or voice assistance.

## 12. APPENDIX:

## **Source Code:**

#### Index.html

```
{% extends 'base.html' %}
{% block body %}
<div class="container">
<h1>Today's News</h1>
{% for news in cases.articles %}
   <h3 class="title">{{news.title}}</h3>
    <h6>Author: {{news.author}}</h6>
   <h6>Published At: {{news.publishedAt}}</h6>
 <h5>{{news.description}}</h5>
 </div>
   <div class="img_div">
  <img src="{{news.urlToImage}}" alt="Image Not Found" height="270rem">
 </div>
</div>
{% endfor %}
</div>
{% endblock body %}
```

# Login.html

```
</head>
/* Google Fonts - Poppins */
@import url('https://fonts.googleapis.com/css2?family=Poppins:
wght@300;400;500;600&display=swap');
* {
 margin: 0;
 padding: 0;
 box-sizing: border-box;
 font-family: 'Poppins', sans-serif;
.container{
 height: 85vh;
width: 100%;
display: flex;
  align-items: center;
 justify-content: center;
 column-gap: 30px;
.top{
 width: 100%;
 height: 90px;
 background: linear-gradient(to right, rgb(50, 32, 51)0%, rgb(118, 50, 69) 90%);
display: flex;
  align-items: center;
 position: fixed;
.top h3{
 color: rgb(178, 183, 230);
 font-size: 25px;
display: block;
 width: 500px;
margin-left: 10px;
```

```
.right {
width: 100%;
 height: 100%;
display: flex;
align-items: center;
justify-content: center;
.right form{
width: 250px;
height: 270px;
 background:rgb(27, 61, 75);
padding: 48px;
border-radius: 10px;
margin-top: 120px;
.right form h2{
  text-align: center;
color: rgb(255, 255, 255);
.right form input{
 font-family: Arial, Helvetica, sans-serif;
 color: rgb(245, 239, 239);
height: 25px;
margin-top: 20px;
background:none;
  border: none;
 border-bottom: 1px solid rgba(218, 165, 32, 0.445);
 padding-left: 10px;
width: 160px;
#btn{
width: 90px;
  height: 40px;
background-color: rgb(19, 105, 139);
border-radius: 5px;
```

```
position: relative;
 left: 30px;
border: none;
 top: 10px;
.right form:hover #btn{
background:white;
color: rgb(19, 125, 139);
 cursor: pointer;
}
#btn:hover{
background-color: black;
.right form:hover input{
  border-bottom: 1px solid rgba(5, 4, 2, 0.445);
.right form:hover input::placeholder{
 color: black;
.req{
width: 100%;
height: 90px;
display: flex;
align-items: center;
.right a{
 text-decoration: none;
color: black;
  background-color: rgba(0, 195, 255, 0.616);
display: block;
 width: 120px;
height: 40px;
border-radius:5px;
```

```
text-align: center;
 padding-top: 10px;
position: absolute;
 right: 30px;
top: 30px;
input::placeholder{
 color: rgba(255, 255, 255, 0.521);
font-weight: lighter;
font-size: 13px;
.form{
 position: absolute;
max-width: 430px;
 width: 100%;
padding: 30px;
 border-radius: 6px;
  background: linear-gradient(to top, rgba(29, 18, 35, 255) 0%, rgba(55, 34, 51, 255),
 rgba(248,160,158,255),rgba(212,86,98,255),rgba(73,39,63,255) 90%);
}
.header{
 font-size: 28px;
 font-weight: 600;
 color: rgba(222,82,83,255);
text-align: center;
}
.form{
 margin-top: 30px;
.form .field{
 position: relative;
height: 50px;
width: 100%;
 margin-top: 20px;
border-radius: 6px;
.field input,
.field button{
```

```
height: 100%;
 width: 100%;
 font-weight: 400;
 border-radius: 6px;
.field input{
padding: 0 15px;
border: 1px solid#CACACA;
.field input:focus{
 border-bottom-width: 2px;
}
.eye-icon{
position: absolute;
 top: 50%;
 transform: translateY(-50%);
 font-size: 18px;
color: #8b8b8b;
cursor: pointer;
padding: 5px;
.field button{
 color: #fff;
 background-color: rgba(247,142,139,255);
  transition: all 0.3s ease;
 cursor: pointer;
.field button:hover{
 background-color:rgba(60,36,57,255);
}
.form-link{
text-align: center;
 margin-top: 10px;
.form-link span,
```

```
.form-link a{
font-size: 14px;
font-weight: 400;
.form a{
 text-decoration: none;
.form-content a:hover{
text-decoration: underline;
.line{
position: relative;
height: 1px;
width: 100%;
margin: 36px 0;
 background-color: #d4d4d4;
.line::before{
position: absolute;
top: 50%;
left: 50%;
 transform: translate(-50%, -50%);
background-color: #FFF;
color: #8b8b8b;
padding: 0 15px;
.media-options a{
 display: flex;
align-items: center;
justify-content: center;
a.facebook{
color: #fff;
background-color: #4267b2;
a.facebook .facebook-icon{
```

```
height: 28px;
width: 28px;
color: #0171d3;
 font-size: 20px;
 border-radius: 50%;
display: flex;
align-items: center;
 justify-content: center;
 background-color: #fff;
.facebook-icon,
img.google-img{
 position: absolute;
top: 50%;
left: 15px;
transform: translateY(-50%);
img.google-img{
 height: 20px;
width: 20px;
object-fit: cover;
a.google{
 border: 1px solid white;
a.google span{
font-weight: 500;
opacity: 0.6;
color: white;
@media screen and (max-width: 400px) {
.form{
padding: 20px 10px;
</style>
```

```
<body style = "background-image: url('static/images/red-mountains-</pre>
morning-minimal.jpg');
background-attachment: fixed; background-size: 100% 100%;">
 <div class="top">
 <h3>Newstrack.com</h3>
</div>
 <section class="container forms">
   <div class="form login">
     <div class="form-content">
      <div class="right">
         <form action="/login" method="post">
                  <div class="msg">{{ msg }}</div>
                 <h2>LOGIN</h2>
                   <input type="text" name="username" placeholder="Username"</pre>
                 id="username"><br>
               <input type="password" name="password" placeholder="Password"</pre>
                    id="password"><br>
                 <input type="submit" id="btn" value="LOGIN">
              </form>
          <div class="form-link">
            <span>Don't have an account? <a href="register">
             Register</a></span>
      </div>
       </div>
        <div class="line"></div>
         <div class="media-options">
             <a href="#" class="field facebook">
           <i class='bx bxl-facebook facebook-icon'></i>
           <span>Login with Facebook</span>
         </a>
        <div class="media-options">
     <a href="#" class="field google">
        <img src="static/images/google.png" alt=""</pre>
```

```
class="google-img">
                  <span>Login with Google</span>
  </div>
</body>
<script>
  window.watsonAssistantChatOptions = {
       integrationID: "cd6753a2-76fe-4af5-b73c-c7d998962504", //
     The ID of this integration.
     region: "au-syd", // The region your integration is hosted in.
   The ID of your service instance.
    onLoad: function (instance) { instance.render(); }
  setTimeout(function () {
    const t = document.createElement('script');
+ (window.watsonAssistantChatOptions.clientVersion || 'latest') + "
/WatsonAssistantChatEntry.js";
  document.head.appendChild(t);
});
</script>
<script src="static/js/script.js"></script>
Register.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=Login, initial-scale=1.0">
 <link rel="stylesheet" href="register.css">
```

```
<title>Register</title>
</head>
<style>
margin:0;
padding:0;
font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial,
 sans-serif;
box-sizing: border-box;
}
.container{
 width: 100%;
height: 100vh;
  background-color:aquamarine;
background-size: cover;
overflow-y: hidden;
 display: flex;
.top{
width: 100%;
 height: 90px;
background: linear-gradient(to right, rgb(0, 0, 0) 0%, rgba
 (49, 42, 3, 0.945) 90%);
display: flex;
align-items: center;
position: fixed;
.top h3{
 color: rgb(178, 183, 230);
font-size: 25px;
display: block;
width: 500px;
margin-left: 10px;
}
.right{
width: 100%;
```

```
height: 100%;
display: flex;
align-items:center;
.right form{
 transition:2s;
 width: 450px;
 background: linear-gradient(to bottom, rgba(32,41,134,255) 10%,
 rgba(31,84,161,255), rgba(33,50,140,255), rgba(17,157,192,255),
 rgba(117,206,247,255) 90%);
 padding: 48px;
border-radius: 10px;
 margin-top: 120px;
padding-left: 90px;
.right form h2{
  text-align: center;
color: black;
font-size: 30px;
 margin-right: 200px;
.right form input{
  font-family: Arial, Helvetica, sans-serif;
 color: rgb(233, 233, 233);
 height: 25px;
  margin-top: 30px;
 border: none;
 border-bottom: 1px solid rgba(0, 0, 0, 0.445);
padding-left: 6px;
width: 280px;
.right form:hover h2{
color: rgb(168, 190, 201);;
```

```
text-align: center;
margin-right: 200px;
}
#btn{
 width: 120px;
height: 40px;
background-color: rgb(31, 2, 65);
 border-radius: 5px;
position: relative;
left: 70px;
border: none;
top: -10px;
 color: white;
}
.right form:hover #btn{
background:linear-gradient(to right top, rgba(30, 7, 241, 0.788)
0%,rgba(30, 7, 241, 0.788) 60%);
 color: rgb(14, 209, 235);
cursor: pointer;
}
#btn:hover{
background-color: black;
.right form:hover input{
 border-bottom:1px solid black;
.right form:hover input::placeholder{
color: rgb(247, 250, 252);
}
.reg{
 width: 100%;
height: 100px;
display: flex;
 align-items: center;
.right #go{
text-decoration: none;
```

```
color: black;
  background-color: rgba(0, 162, 255, 0.616);
 display: block;
 width: 120px;
 height: 40px;
 border-radius:5px;
 text-align: center;
 padding-top: 10px;
 position: absolute;
right: 30px;
top: 30px;
input::placeholder{
 color: black;
  font-weight: lighter;
font-size: 13px;
}
</style>
<body>
 <div class="top">
  <h3>Newstrack.com</h3>
 </div>
 <div class="container" style="background-image: url(static/images</pre>
  /reg2.jpg);background-attachment: fixed;background-size:100% 100%;">
    <div class="right">
         <form action="/register" method="post">
         <div class="msg">{{ msg }}</div>
           <h2>REGISTER</h2>
            <input type="text" name="username" placeholder="Usernam</pre>
             e"><br>
           <input type="mail" name="email" placeholder="Mail id"</pre>
            ><br>
    <input type="number" name="phone_num" placeholder="</pre>
      Phone Number"><br>
```

## Science.html

```
{% extends 'base.html' %}
{% block body %}
<h1>Today's Science News</h1>
 {% for news in cases.articles %}
 <div class="news box">
  <div class="info_div">
  <h3 class="title">{{news.title}}</h3>
  <h6>Author: {{news.author}}</h6>
   <h6>Published At: {{news.publishedAt}}</h6>
  <h5>{{news.description}}</h5>
 </div>
 <div class="img_div">
 <img src="{{news.urlToImage}}" alt="Image Not Found" height="270rem">
 </div>
</div>
{% endfor %}
</div>
{% endblock body %}
```

# Sports.html

```
{% extends 'base.html' %}
{% block body %}
```

```
<div class="container">
<h1>Today's Sports News</h1>
{% for news in cases.articles %}
 <div class="info div">
 <h3 class="title">{{news.title}}</h3>
  <h6>Author: {{news.author}}</h6>
   <h6>Published At: {{news.publishedAt}}</h6>
  <h5>{news.description}</h5>
 </div>
 <div class="img_div">
   <img src="{{news.urlToImage}}" alt="Image Not Found" height="270rem">
 </div>
</div>
{% endfor %}
</div>
{% endblock body %}
Tech.html
{% extends 'base.html' %}
{% block body %}
<div class="container">
 <h1>Today's Tech News</h1>
{% for news in cases.articles %}
<div class="news_box">
 <div class="info div">
  <h3 class="title">{{news.title}}</h3>
 <h6>Author: {{news.author}}</h6>
  <h6>Published At: {{news.publishedAt}}</h6>
  <h5>{{news.description}}</h5>
 <div class="img_div">
<img src="{{news.urlToImage}}" alt="Image Not Found" height="270rem">
</div>
 </div>
{% endfor %}
</div>
```

{% endblock body %}

#### Health.html

```
{% extends 'base.html' %}
{% block body %}
<div class="container">
<h1>Today's health News</h1>
{% for news in cases.articles %}
<div class="news box">
   <h3 class="title">{{news.title}}</h3>
     <h6>Published At: {{news.publishedAt}}</h6>
  < h5 > { \{news.description\} \} < /h5 > }
 </div>
 <div class="img div">
</div>
</div>
{% endfor %}
</div>
{% endblock body %}
```

#### **Business.html**

```
<img src="{{news.urlToImage}}" alt="Image Not Found" height="270rem">
</div>
{% endfor %}
</div>
{% endblock body %}
Base.html
<!doctype html>
<html lang="en">
<head>
 <meta charset="utf-8">
 <meta name="viewport" content="width=device-width,</pre>
 initial-scale=1">
<link href="https://cdn.jsdelivr.net/npm/bootstrap</pre>
  integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8
 tT94WrHftjDbrCEXSU1oBogyl2QvZ6jIW3" crossorigin=
 "anonymous">
<title>www.newstrack.com</title>
<style>
 .container {
 margin-top: 20px;
 margin-top: 8%;
 .nav{
   overflow: hidden;
 position: fixed;
 top: 0;
 width: 100%;
 border: 3px solid rgb(0, 0, 0);
```

```
margin-top: 20px;
    margin-bottom: 20px;
   margin-right: 10px;
    padding: 3%;
  display: flex;
 align-items: center;
  justify-content: space-between;
   font-size: 1.2em;
  background-color: rgb(236, 236, 236);
.navbar-brand {
   text-decoration: none;
  font-size: 2em;
@media screen and (max-width: 980px) {
.news_box {
   flex-direction: column;
  .img_div img{
width: 100%;
}
</style>
</head>
<nav class="navbar nav navbar-expand-lg navbar-light</pre>
bg-light">
  <div class="container-fluid">
  <a class="navbar-brand" href="{{ url_for('index') }}">
   height="50" class="d-inline-block align-top" alt="">
   Newstrack.com</a>
   <button class="navbar-toggler" type="button" data-</pre>
    bs-toggle="collapse" data-bs-target="#navbarNav"
   aria-controls="navbarNav" aria-expanded="false"
    aria-label="Toggle navigation">
  <span class="navbar-toggler-icon"></span>
</button>
```

```
<div class="collapse navbar-collapse" id="navbarNav">
    class="nav-item">
     <a class="nav-link" href="{{ url_for('sports') }}"</pre>
  >Sports</a>
  <a class="nav-link" href="{{ url_for('business') }}">
    Business</a>
  <a class="nav-link" href="{{ url_for('technology') }}">
     Technology</a>
  <a class="nav-link" href="{{ url_for('science') }}">
  Science</a>
    class="nav-item">
    <a class="nav-link" href="{{ url_for('health') }}">
  Health</a>
</div>
</div>
</nav>
{% block body %}
{% endblock body %}
 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/</pre>
js/bootstrap.bundle.min.js" integrity="sha384-ka7Sk0Gln4gmtz2Ml
QnikT1wXqYsOq+OMhuP+I1RH9sENBO0LRn5q+8nbTov4+1p" crossorigin="
anonymous"></script>
</body>
</html>
```

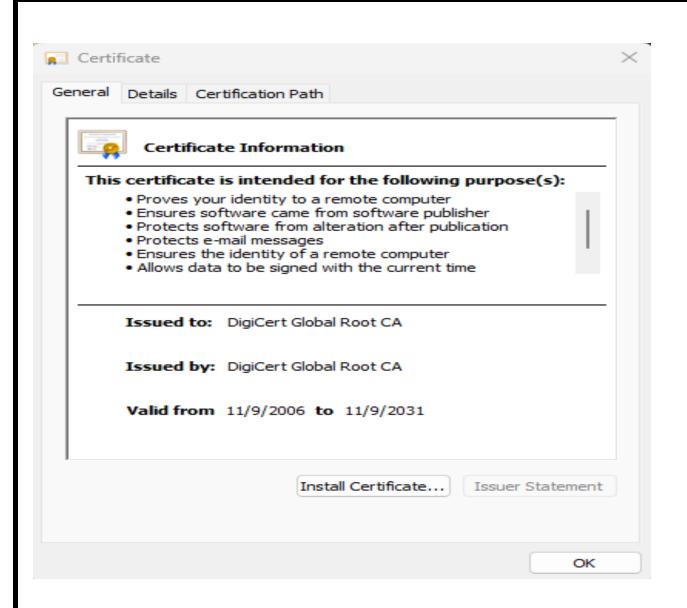
```
Static.css
Style.css
/* Google Fonts - Poppins */
wght@300;400;500;600&display=swap');
 margin: 0;
 padding: 0;
 box-sizing: border-box;
 font-family: 'Poppins', sans-serif;
}
.container{
 height: 100vh;
 width: 100%;
 display: flex;
 align-items: center;
 justify-content: center;
column-gap: 30px;
}
.form{
  position: absolute;
 max-width: 430px;
 width: 100%;
 border-radius: 6px;
 background: linear-gradient(to top,rgba(29,18,35,255) 0%,
 rgba (55, 34, 51, 255), rgba (248, 160, 158, 255), rgba (212, 86, 98, 255)
 ,rgba(73,39,63,255) 90%);
.form.signup{
opacity: 0;
  pointer-events: none;
.forms.show-signup .form.signup{
```

```
opacity: 1;
pointer-events: auto;
.forms.show-signup .form.login{
 opacity: 0;
pointer-events: none;
header{
 font-size: 28px;
 font-weight: 600;
 color: rgba(222,82,83,255);
text-align: center;
form{
 margin-top: 30px;
.form .field{
  position: relative;
 height: 50px;
 width: 100%;
 margin-top: 20px;
 border-radius: 6px;
.field input,
.field button{
 height: 100%;
 width: 100%;
 border: none;
  font-size: 16px;
 font-weight: 400;
 border-radius: 6px;
.field input{
 padding: 0 15px;
border: 1px solid#CACACA;
.field input:focus{
 border-bottom-width: 2px;
```

```
}
.eye-icon{
 position: absolute;
 top: 50%;
 right: 10px;
 transform: translateY(-50%);
 font-size: 18px;
 color: #8b8b8b;
 cursor: pointer;
padding: 5px;
}
.field button{
 color: #fff;
 background-color: rgba(247,142,139,255);
  transition: all 0.3s ease;
cursor: pointer;
.field button:hover{
 background-color:rgba(60,36,57,255);
}
.form-link{
 text-align: center;
 margin-top: 10px;
.form-link span,
.form-link a{
 font-size: 14px;
font-weight: 400;
 color: white;
.form a{
text-decoration: none;
.form-content a:hover{
text-decoration: underline;
}
.line{
position: relative;
```

```
height: 1px;
width: 100%;
margin: 36px 0;
 background-color: #d4d4d4;
.line::before{
 content: 'Or';
 position: absolute;
top: 50%;
left: 50%;
 transform: translate(-50\%, -50\%);
  background-color: #FFF;
 color: #8b8b8b;
padding: 0 15px;
.media-options a{
display: flex;
 align-items: center;
 justify-content: center;
}
a.facebook{
color: #fff;
 background-color: #4267b2;
a.facebook .facebook-icon{
 height: 28px;
width: 28px;
color: #0171d3;
  font-size: 20px;
 border-radius: 50%;
 display: flex;
 align-items: center;
justify-content: center;
background-color: #fff;
.facebook-icon,
img.google-img{
position: absolute;
top: 50%;
```

```
left: 15px;
  transform: translateY(-50%);
img.google-img{
  height: 20px;
 width: 20px;
 object-fit: cover;
a.google{
 border: 1px solid white;
a.google span{
  font-weight: 500;
 opacity: 0.6;
  color: white;
@media screen and (max-width: 400px) {
 .form{
   padding: 20px 10px;
Js
Script.js
const forms = document.querySelector(".forms"),
    pwShowHide = document.querySelectorAll(".eye-icon"),
     links = document.querySelectorAll(".link");
pwShowHide.forEach(eyeIcon => {
   eyeIcon.addEventListener("click", () => {
    let pwFields = eyeIcon.parentElement.parentElement
    .querySelectorAll(".password");
    pwFields.forEach(password => {
     if(password.type === "password"){
       password.type = "text";
```



```
App
App.py
from flask import*
from datetime import date
import ibm_db
import re
import requests
app=Flask(__name___)
app.secret_key = 'abcde'
conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=fbd88901-ebdb
-4a4f-a32e-9822b9fb237b.clogj3sd0tgtu0lqde00.databases.app
domain.cloud;PORT=32731;SECURITY=SSL;SSLServerCertificate=
DigiCertGlobalRootCA.crt;UID=bqh46110;PWD=0FTZbkuJk6rYuFP7",'','')
@app.route('/')
def home():
   return render_template('login.html')
@app.route('/backlogin')
def backlogin():
  return render_template('login.html')
@app.route('/about')
def about():
   return render_template('about.html')
@app.route('/logout')
def logout():
  session.pop('loggedin', None)
 session.pop('id', None)
 session.pop('username', None)
 return render_template('login.html')
```

```
@app.route('/login',methods =['GET', 'POST'])
def login():
 global userid
 msq = ''
   if request.method == 'POST' :
    username = request.form['username']
    password = request.form['password']
     sql = "SELECT * FROM login WHERE username =? AND
     password=?"
     stmt = ibm db.prepare(conn, sql)
      ibm_db.bind_param(stmt, 1, username)
    ibm_db.bind_param(stmt, 2, password)
    ibm_db.execute(stmt)
     account = ibm_db.fetch_assoc(stmt)
     print (account)
     if account:
     session['id'] = account['USERNAME']
       userid= account['USERNAME']
       session['username'] = account['USERNAME']
      msg = 'Logged in successfully !'
        msg = 'Logged in successfully !'
      url = "https://newsapi.org/v2/top-headlines?country
   =in&category=general&apiKey=7e1737d3191d4fe894fc579df01b7bde"
        r= requests.get(url).json()
         case = {
      'articles': r['articles']
      return render_template('index.html', cases = case)
     else:
          msg = 'Incorrect username / password !'
  return render_template('login.html', msg = msg)
@app.route('/register', methods =['GET', 'POST'])
```

```
def register():
 if request.method == 'POST' :
      username = request.form['username']
   email = request.form['email']
   phone_num = request.form['phone_num']
    password = request.form['confirm_password']
    sql = "SELECT * FROM login WHERE username =?"
      stmt = ibm_db.prepare(conn, sql)
    ibm db.bind param(stmt, 1, username)
   ibm db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    print(account)
   if account:
      msg = 'Account already exists !'
     return render_template('login.html', msg = msg)
   elif not re.match(r'[^0]+0[^0]+\.[^0]+', email):
       msg = 'Invalid email address !'
     elif not re.match(r'[A-Za-z0-9]+', username):
      msg = 'name must contain only characters and numbers !'
   elif not re.match(r'[0-9]+', phone num):
    msg = 'phone number must contain only numbers !'
   else:
    insert sql = "INSERT INTO user details VALUES (?, ?, ?, ?)"
     prep stmt = ibm db.prepare(conn, insert sql)
        ibm_db.bind_param(prep_stmt, 1, username)
     ibm_db.bind_param(prep_stmt, 2, email)
     ibm_db.bind_param(prep_stmt, 3, phone_num)
         ibm_db.bind_param(prep_stmt, 4, password)
       ibm_db.execute(prep_stmt)
         insert sql 1 = "INSERT INTO login VALUES (?, ?)"
    prep_stmt_1 = ibm_db.prepare(conn, insert_sql_1)
      ibm_db.bind_param(prep_stmt_1, 1, username)
         ibm_db.bind_param(prep_stmt_1, 2, password)
      ibm db.execute(prep stmt 1)
        msg = 'You have successfully registered !'
      return render_template('login.html', msg = msg)
elif request.method == 'POST':
```

```
msg = 'Please fill out the form !'
       return render_template('register.html', msg = msg)
 return render_template('register.html', msg = msg)
@app.route('/index')
def index():
 url = "https://newsapi.org/v2/top-headlines?country=in&apiKey
  =660a62eb9a6445a7b887ad991e40f4cb"
  r= requests.get(url).json()
 case = {
 'articles': r['articles']
return render_template('index.html', cases = case)
@app.route('/sports')
def sports():
  url = "https://newsapi.org/v2/top-headlines?country=in&category
 =sports&apiKey=660a62eb9a6445a7b887ad991e40f4cb"
 r= requests.get(url).json()
 case = {
 'articles': r['articles']
 return render_template('sports.html', cases = case)
@app.route('/business')
def business():
 url = "https://newsapi.org/v2/top-headlines?country=in&category
  =business&apiKey=660a62eb9a6445a7b887ad991e40f4cb"
  r= requests.get(url).json()
 case = {
 'articles': r['articles']
 return render template('business.html',cases = case)
@app.route('/technology')
def technology():
```

```
url = "https://newsapi.org/v2/top-headlines?country=in&category
  =technology&apiKey=660a62eb9a6445a7b887ad991e40f4cb"
 r= requests.get(url).json()
 case = {
 'articles': r['articles']
  return render template('tech.html', cases = case)
@app.route('/science')
def science():
  url = "https://newsapi.org/v2/top-headlines?country=in&category
  =science&apiKey=660a62eb9a6445a7b887ad991e40f4cb"
  r= requests.get(url).json()
case = {
   'articles': r['articles']
 return render_template('science.html', cases = case)
@app.route('/health')
def health():
  url = "https://newsapi.org/v2/top-headlines?country=in&category
 =health&apiKey=660a62eb9a6445a7b887ad991e40f4cb"
 r= requests.get(url).json()
 case = {
  'articles': r['articles']
  return render_template('health.html', cases = case)
@app.route('/entertainment')
def entertainment():
  url = "https://newsapi.org/v2/top-headlines?country=in&category
  =entertainment&apiKey=660a62eb9a6445a7b887ad991e40f4cb"
 r= requests.get(url).json()
 case = {
   'articles': r['articles']
  return render_template('entertainment.html', cases = case)
@app.route('/search', methods =['GET', 'POST'])
```

```
def search():
    s = request.form['search']
    today = date.today()
    dat = today.strftime("%Y/%m/%d")
    url ="https://newsapi.org/v2/everything?q="+s+"&from="+ dat+"
    &sortBy=popularity&apiKey=660a62eb9a6445a7b887ad991e40f4cb"
    r = requests.get(url).json()
    case = {
        'articles': r['articles']
    }
    return render_template('search.html', cases = case)

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

## GitHub & Project Demo Link: