

IBM Experimental Learning

NEWS TRACKER APPLICATION

TEAM ID: PNT2022TMID43631

Dharanikumar R - 721019104002
Rajapandi N - 721019104007
Ranjith R - 721019104008
Rokkith SK - 721019104009
Mohamed Irfan A - 721019104006

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1. INTRODUCTION

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

As our lives are very busy these days, we often feel we need more than 24 hrs a day to cope up with everything we have in our schedule. Well, that's not possible but reducing the time by changing the conventional method of reading news can help. Just tell us what market news you're interested in and get a quick peek for the day. Only read what you feel is relevant and save your time. This app helps you to query for all information about Indices, Commodities, Currencies, Future Rates, Bonds, etc.... as on official websites.

1.1 Project Overview

- The user interacts with the application.
- Registers by giving the details.
- 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

A news application is a big interactive database that tells a news story. Think of it like you would any other piece of journalism. It just uses software instead of words and pictures.

2. Literature survey

Web tracking seems to become ubiquitous in online business and leads to increased privacy concerns of users. This paper provides an overview over the current state of the art of web-tracking research, aiming to reveal the relevance and methodologies of this research area and create a foundation for future work. In particular, this study addresses the following research questions: What methods are followed? What results have been achieved so far? What are potential future research areas? For these goals, a structured literature review based upon an established methodological framework is conducted. The identified articles are investigated with respect to the applied research methodologies and the aspects of web tracking they emphasize.

2.1 Existing problem

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

2.2 References

S.NO	PAPER	AUTHOR	YEAR	METHOD AND IMPLEMENTATION TECHNIQUE
1	Exploring mobile news reading interactions for news app personalisation.	Marios Constantinides	2015	Identification of news reader types , Interaction logging and classification study ,Deployment and data collection, Predicting News reader types ,Adaptive UI .
2	Detection and Tracking in News Articles	Sagar Patel, Sanket Suthar, Sandip Patel, Neha Patel	2015	Preprocessing Tokenization, Stemming/Lemmization , Vector Space Model Topic tracking
3	Online News Classification Using Machine Learning Approaches	Umid Suleymanov, Samir Rustamov,	2018	Text categorization, Feature extraction, Support vector machines, Cost function,
		Murad Zulfugarov		Training withMachine learning algorithms, Classification algorithms.

4	The Innovative Application for News Management System	Dr.C.K. Gomathy, Dr.V.Geetha, PeddireddyAbhiram	2020	This paper aimed at developing an online news management system that is of information to either a college. The news management system is an internet based application that can be accessed throughout the college. There are features like email notifications, cancellation of posts, updating posts, comments section etc in this system. The user interface is provide in the proposed system which provides user to deal with the system easily.
5	Following the Fed with a News Tracker	Michael William McCracken	2012	The paper is not a technical paper but is essentially a statistical paper on how should one conclude whether the data have come in stronger, weaker or as expected. This is based on the CitiGroup U.S Economic Surprise Index.

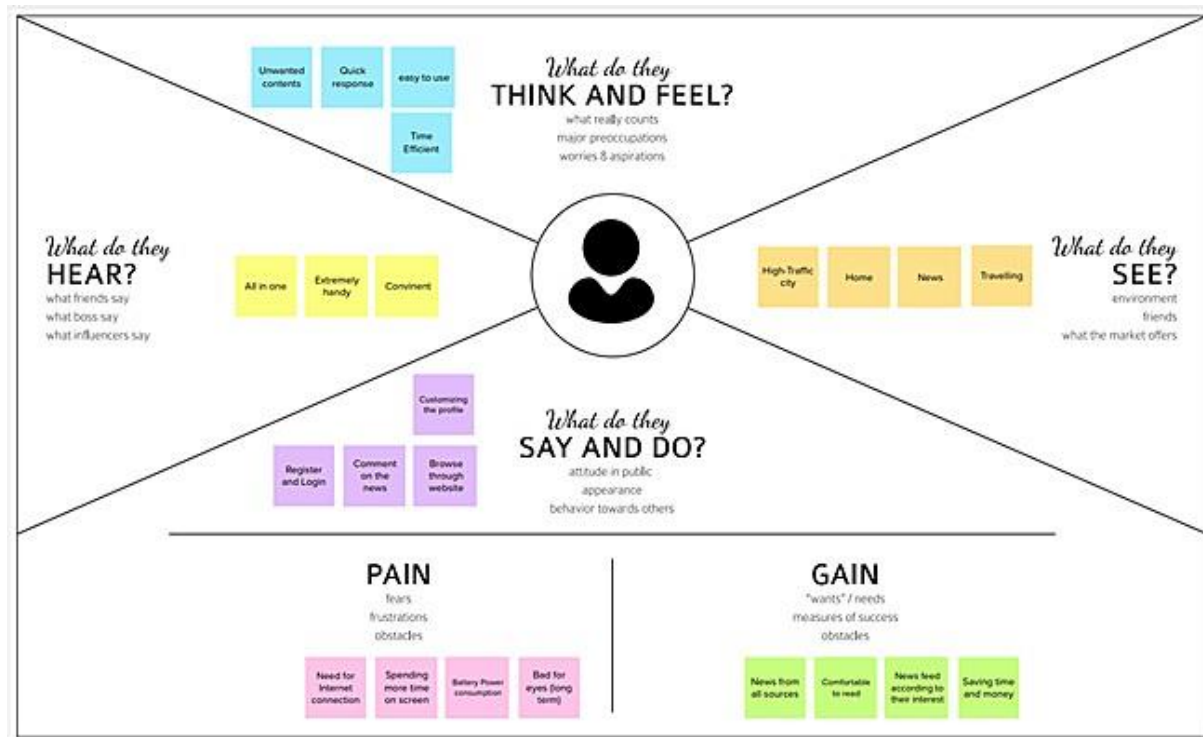
2.3 Problem Statement Definition

There are multiple news sharing apps used by single user are often spammed with notifications.

There is also a lot of news with different categories which gets shared .A news sharing app wants to help users find relevant and important news easily.

3. IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas



3.2 Ideation & Brainstorming



3.3 Proposed Solution

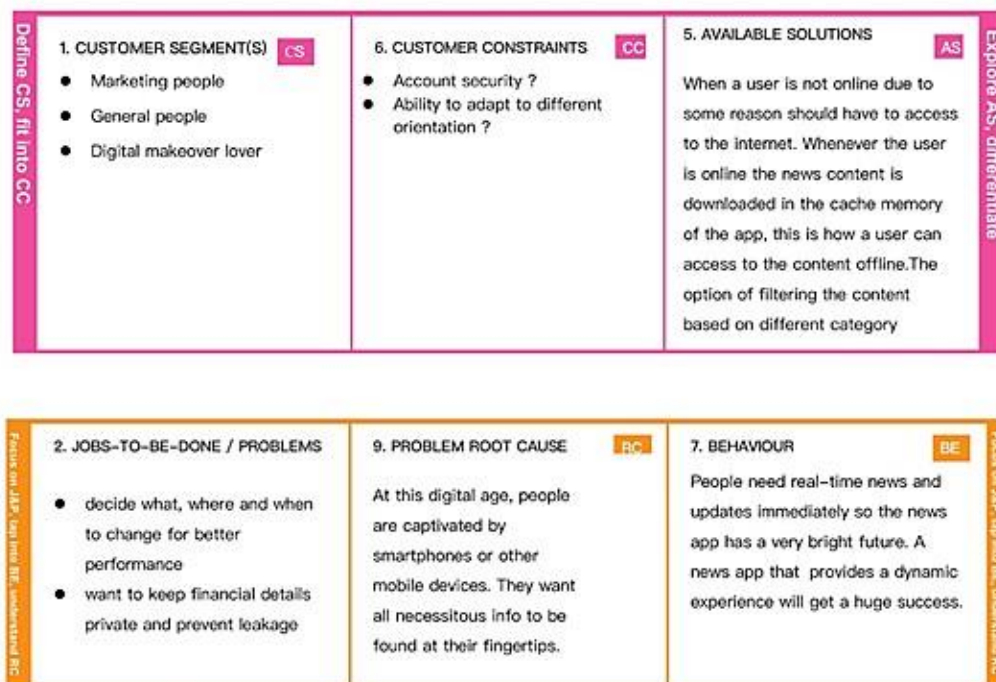
S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	On our regular busy days, it is difficult to read a newspaper and have no time to spend watching the news channel. News from these sources is limited and not it is not prepared for a specific individual. People find it hard to search for news according to their interests.
2.	Idea / Solution description	To help our users to give their suggested news with their prescribed timing. The main focus of this application is to connect news articles from all around the world and deliver it to user as fast as possible in best visualize way. And the motive is to only read the relevant content and save time.
3.	Novelty / Uniqueness	This application offers you brief articles that are smartly written to include all the necessary information and are short enough to make it a quick read.
4.	Social Impact / Customer Satisfaction	After launching of this application all Our Customers get news updates every morning and evening so that you don't miss out on any critical headlines. This application also allows you to save and read news stories offline. If you like a particular story and find it relevant, you can share it with your friends and family through Twitter, Facebook, Whatsapp, etc.

5.	Scalability of the Solution	Our application's ability to handle growing user base without affecting the user experience and the app's performance. So, this will ensure our application will be scalable.
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3.4 Problem Solution fit

Project Title: NEWS TRACKER APPLICATION

Team ID : PNT2022TMD04837



3. TRIGGERS TR News app triggers to describe automatically specific news or event faster and more targeted	10. YOUR SOLUTION SL Evident that developing a news app helps you stand out among all competitors. The aforesaid aspects let a news app promote an online magazine and as a result, the app reaches out and attracts many people from all across the world.	8.CHANNELS of BEHAVIOUR CH 8.1 ONLINE User can access all kind of news in many forms 8.2 OFFLINE User can view news in offline mode
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4. REQUIREMENT ANALYSIS

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Installation	User can install the app from google play store, App store and from website.
FR-2	User Registration	Registration through Form Registration through Gmail Registration through Mobile number.
FR-3	User Confirmation	Confirmation via Email Confirmation via OTP
FR-4	User login	User should login the app with the User's name or email and password.

FR-5	User Information	User can include their information in preferred topics so that they could be recommended by the application.
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Non-functional Requirements:

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

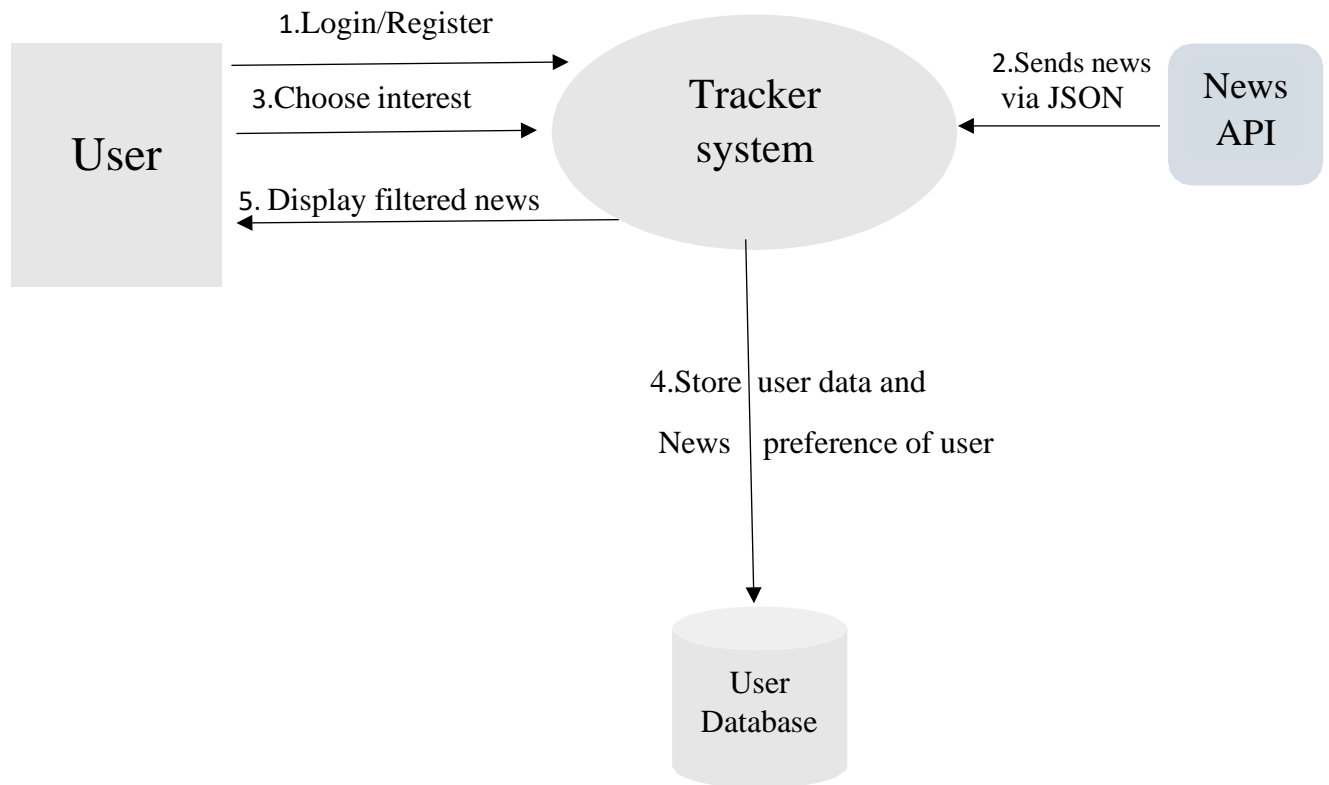
NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	This app is user friendly app, where users can clear their queries with the chat bot.
NFR-2	Security	This app is secured app, where user information is encrypted properly.
NFR-3	Reliability	This app can be accessed anywhere and anytime. User can download the news offline.
NFR-4	Performance	The app is well tested and hence the performance of the app is great.
NFR-5	Availability	Chat box is available in this app to rectify the queries of the users. Variety of news is provided by this app. More sub categories are available.

5. PROJECT DESIGN

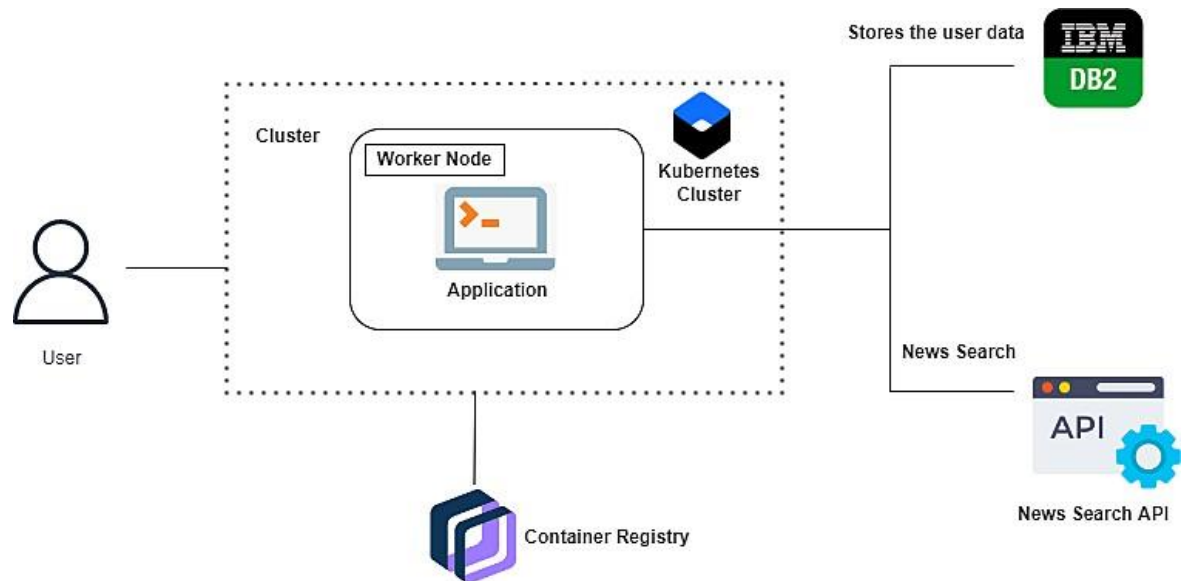
5.1 Data Flow Diagrams

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

DFD) for news tracker application for :



5.2 Solution & Technical Architecture



5.3 User Stories

User Type	Functional Requirement	User Story Number	User Story / Task	Acceptance criteria
	(Epic)			
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
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm

		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login
		USN-4	As a user, I can register for the application through Gmail	I can receive password to mail.
	Login	USN-5	As a user, I can log into the application by entering email & password	I can receive confirmation mail.
	Dashboard	USN-6	The news portal and shows the recent news as Breaking NEWS	I can Open and view the news portal.
Customer (Web user)	Search Bar	USN-7	User searches for news based on their own interest.	I can view the related news and can watch videos.
		USN-8	The news can be viewed that is appearing on the dashboard.	On the dashboard. I shall click on the news wanted and can open it.
Administrator	Server	USN-9	Provides correct news available from the database.	Provide the correct news from the database and fake news will be rejected
		USN-10	Provide live news with video and audio contents.	I can get the news in which I am interested.

6. PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation

Sprint 1:

Registration:

As a user, I can register for the application by entering my email, password, and confirming my password.

As a user, I will receive confirmation email once I have registered for the application

As a user, I can register for the application through Facebook

As a user, I can register for the application through Gmail

Sprint 2:

As a user, I can log into the application by entering email & password

Dashboard:

Sprint 3:

User searches for news based on their own interest.

Sprint 4:

Provides correct news available from the database.

6.2 Sprint Delivery Schedule

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

6.3 Reports from JIRA

[illegible]

7. CODING & SOLUTIONING (Explain the features added in the project along with code)

Home.html

News Tracker Application

- Home
- News
- Blog
- Contact
- Logout

Top of Form

Search

Bottom of Form

{% for title,desc,img,p_date,url in all %}

{{title}}

{{desc}}

Publish Date:-

{{p_date}}

{% endfor %}

Index.html



Top of Form

Sign up Sign up

Bottom of Form

Top of Form

Login Login

Bottom of Form

Contact.html

Team Member	Contact(Click the Symbol)
Naveen Raja N	
Navaneeth S	
Kousick Srinivas P	
Karuppiyah AL	

Style.css body { margin: 0px; padding: 0px; background-color: rgb(69, 54, 54); } * { box-sizing: border-box; } ul { list-style: none; } a { text-decoration: none !important; } nav { min-height: 60px; width: 100%; /* background-color: red; */ /* border-top: 1px solid black !important; */ position: relative; display: flex; justify-content: space-around; align-items: center; flex-flow: row wrap; } .logo h2 { font-size: 30px; font-weight: bold; font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', Roboto, Oxygen, Ubuntu, Cantarell, 'Open Sans', 'Helvetica Neue', sans-serif; color: white !important; text-decoration: none !important; letter-spacing: 1px; } nav .menu { display: flex; flex-flow: row wrap; justify-content: center; align-items: center; } nav .menu li a { height: 35px; line-height: 30px; display: flex; text-transform: uppercase; align-items: center; padding: 0px 22px; font-size: 15px; font-weight:

```

bold; color: white; font-family: 'Poppins', sans-serif; letter-spacing: 1px; } nav .menu li
a:hover { color: black; background-color:white; border-radius: 20px; } #main { /* padding-
top: 98px; */ } .banner { height: 620px; width: 100%; display: flex; flex-wrap: column;
justify-content: center; align-items: center; background-color: black; border: 1px solid
rgb(98, 4, 4); } .banner img { height: 100%; width: 100%; padding: 2px; } .head-git{ height:
40px; width: 100%; justify-content: center; align-items: center; background-color: rgb(250,
244, 244); display: flex; flex-flow: row; margin-bottom: 5px; } .head-git h2 { font-size:
18px; font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
color:black; } .head-git h2 a { text-decoration: none ; color:blue; font-size: 23px; } .head-git
h2 a:hover { color:rgb(211, 47, 41); background-color: beige; } .nav-link { height: 100%;
width: 100%; color: black; } .head { height: 50px; width: 100%; display: flex; align-items:
center; justify-content: center; color: white; font-size: 30px; font-weight: bold; font-
family:'Times New Roman', Times, serif; padding-left: 20px; padding-top: 10px; } .wrapper
{ height: 400px; width: 100%; display: flex; align-items: center; padding: 10px; justify-
content: space-between; /* background-color: rgb(68, 47, 47); */ } .wrapper .item { height:
300px; min-width: 30%; border-radius: 20px; margin: 10px; box-shadow: 10px 10px 10px
rgba(0, 0, 0, 0.4); padding: 0.5px; flex-flow: column wrap; border-bottom: 1px white; }
.wrapper .item img { height: 100%; width: 100%; } .c-box { height: content; max-width:
50%; display: flex; align-items: center; padding: 10px; flex-flow: column; padding: 1px; }
.c-box .content { height: content; min-width: 30%; display: flex; align-items: center; flex-
flow: row wrap; } .c-box .content p { color: #fff; font-size: 15px; font-weight: bold; font-
family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode',
Geneva, Verdana, sans-serif; } .c-box .content h2 { color: yellow; font-size: 20px; font-
weight: bold; font-family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida
Sans Unicode', Geneva, Verdana, sans-serif; } .head-f{ height: 40px; width: 100%; justify-
content: center; align-items: center; border-top: 2px solid black; background-color: yellow;
display: flex; flex-flow: column; } .head-f h2 { font-size: 15px; font-family: 'Gill Sans', 'Gill
Sans MT', Calibri, 'Trebuchet MS', sans-serif; color:black; } Style2.css body{ margin: 0;
padding: 0; display: flex; justify-content: center; align-items: center; min-height: 100vh;
font-family: 'Jost', sans-serif; background: linear-gradient(to bottom, #0f0c29, #302b63,
#24243e); } .main{ width: 350px; height: 500px; background: red; overflow: hidden;
background: url("https://doc-08-
2cdocs.googleusercontent.com/docs/securesc/68c90smiglihng9534mvqmq1946dmis5/fo0pic
sp1nhiucmc0l2
5s29respgpr4j/1631524275000/03522360960922298374/03522360960922298374/1Sx0jhdP
EpnNIyD4r
nN4kHSJtU1EyWka?e=view&authuser=0&nonce=gcrocepgbb17m&user=03522360960922
298374&has h=tfhgbs86ka6divo3llbvp93mg4csvb38") no-repeat center/ cover; border-
radius: 10px; box-shadow: 5px 20px 50px #000; } #chk{ display: none; } .signup{ position:
relative; width:100%; height: 100%; } label{ color: #fff; font-size: 2.3em; justify-content:
center; display: flex; margin: 60px; font-weight: bold; cursor: pointer; transition: .5s ease-in-
out; } input{ width: 60%; height: 20px; background: #e0dede; justify-content: center;
display: flex; margin: 20px auto; padding: 10px; border: none; outline: none; border-radius:
5px; } button{ width: 60%; 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">
<link rel="stylesheet" href="{ {url_for('static', filename='css/style.css')}}">
<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="icon" href="{ {url_for('static', filename='img/logo.png')}}">
<link href="https://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">
<title>{ % block title % }{ % endblock % }</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOMLAsJc"
crossorigin="anonymous">
</head>
<body>
<nav class="bg-secondary">
<h2 class="logo text-light">News Tracker Application</h2>
<!-- <ul class="menu">
<li class="nav-items"><a href="/">Home</a></li>
<li class="nav-items"><a href="/">News</a></li>
<li class="nav-items"><a href="/">Blogs</a></li>
<li class="nav-items"><a href="/">Contact</a></li>
</ul> -->
</nav>
<nav class="navbar navbar-expand-lg bg-secondary">
<div class="container-fluid">
<!-- <h2>News Tracker Application</h2> -->
<!-- <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-
bstarget="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" arialabel="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button> -->
<div class="collapse navbar-collapse" id="navbarSupportedContent">
<ul class="navbar-nav me-auto mb-2 mb-lg-0">
<li class="nav-item">
<a class="nav-link active text-light" aria-current="page" href="#">Home</a>
</li>
<li class="nav-item">
<a class="nav-link text-light" href="#">News</a>
</li>
<li class="nav-item">
<a class="nav-link text-light" href="#">Blog</a>
</li>
<li class="nav-item" role="contact">
<a class="nav-link text-light" href="/contact">Contact</a>
</li>
<li class="nav-item" rol="logout" >

```

```

<a class="nav-link text-light" href="/">Logout</a>
</li>
</ul>
<form class="d-flex" role="search" action = "/search" method = "post">
<input class="form-control me-2" type="search" placeholder="Search" aria-label="Search"
name = "nm">
<button class="btn btn-outline-light" type="submit">Search</button>
</form>
</div>
</div>
</nav>
<section id="main" class="bg-dark">
<!-- <form action = "/search" method = "post">
<p><input type = "text" name = "nm" /></p>
<p><input type = "submit" value = "submit" /></p>
</form> -->
<!-- <div class="banner">
</div> -->
<!-- <div class = "head">TODAY'S TOP HEADLINES</div>
{% for title,desc,img,p_date,url in contents %}
<div class="wrapper">
<div class="item"><a href="{{url}}"></a></div>
<div class = "c-box">
<div class="content"><a href="{{url}}"><h2>{{title}}</h2></a></div>
<div class="content"><a href="{{url}}"><p>{{desc}}</p></a></div>
<div class="content"><p style="color:rgb(77, 255, 0);">Publish Date:-
</p><p>{{p_date}}</p></div>
</div>
</div>
{% endfor %} -->
{% for title,desc,img,p_date,url in all %}
<div class="wrapper">
<div class="item"><a href="{{url}}"></a></div>
<div class = "c-box">
<div class="content"><a href="{{url}}"><h2>{{title}}</h2></a></div>
<div class="content"><p>{{desc}}</p></div>
<div class="content"><p style="color:rgb(48, 158, 0);">Publish Date:- </p><p> {{p_date}}
</p></div>
</div>
</div>
{% endfor %}
</section>
<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.js"
integrity="sha384-

```

```
IQsoLXl5PILFhosVNubq5LC7Qb9DXgDA9i+tQ8Zj3iwWAwPtgFTxbJ8NT4GN1R8p"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.min.js"
integrity="sha384-
cVKIPhGWic2A14u+LWgxfKTRlcfu0JTxR+EQDz/bglDoEyl4H0zUF0QKbrJ0EcQF"
crossorigin="anonymous"></script>
</body>
</html>
```

Index.html

```
<!DOCTYPE html>
<html lang="en" >
<head>
<meta charset="UTF-8">
<title>CodePen - Sign up / Login Form</title>
<link rel="stylesheet" href="{ {url_for('static', filename='css/style2.css')}}">
</head>
<body>
<!-- partial:index.partial.html -->
<!DOCTYPE html>
<html>
<head>
<title>Slide Navbar</title>
<link rel="stylesheet" href="{ {url_for('static', filename='css/style2.css')}}">
<link href="https://fonts.googleapis.com/css2?family=Jost:wght@500&display=swap"
rel="stylesheet">
</head>
<body>
<div class="main">
<input type="checkbox" id="chk" aria-hidden="true">
<div class="signup">
<form action = "/register" method="post">
<label for="chk" aria-hidden="true">Sign up</label>
<input type="text" name="un" placeholder="User name"
required="">
<input type="email" name="ue" placeholder="Email"
required="">
<input type="password" name="up" placeholder="Password"
required="">
<button type="submit">Sign up</button>
</form>
</div>
<div class="login">
<form action = "/login" method="post">
<label for="chk" aria-hidden="true">Login</label>
<input type="email" name="email" placeholder="Email"
required="">
<input type="password" name="pswd" placeholder="Password">
```

```
required="">
<button type="submit">Login</button>
</form>
</div>
</div>
</body>
</html>
<!-- partial -->
</body>
</html>
```

Contact.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>Document</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOMLASjC"
crossorigin="anonymous">
</head>
<body>
<div class='h-100 d-flex align-items-center justify-content-center'>
<table class="table table-bordered table-dark">
<tr>
<th scope="col">Team Member</th>
<th scope="col">Contact(Click the Symbol)</th>
</tr>
<tr>
<td>Naveen Raja N</td>
<td>
<a href="https://www.linkedin.com/in/naveen-raja-n-5154711b3"><svg
xmlns="http://www.w3.org/2000/svg" width="16" height="16" fill="currentColor"
class="bi bi-linkedin"
viewBox="0 0 16 16">
<path d="M0 1.146C0 .513.526 0 1.175 0h13.65C15.474 0 16 .513 16 1.146v13.708c0
.633-
.526 1.146-1.175 1.146H1.175C.526 16 0 15.487 0 14.854V1.146zm4.943
12.248V6.169H2.542v7.225h2.401zm-1.2-8.212c.837 0 1.358-.554 1.358-1.248-.015-.709-
.52-1.248-
1.342-1.248-.822 0-1.359.54-1.359 1.248 0 .694.521 1.248 1.327 1.248h.016zm4.908
8.212V9.359c0-
.216.016-.432.08-.586.173-.431.568-.878 1.232-.878.869 0 1.216.662 1.216
1.634v3.865h2.401V9.25c0-
```

2.22-1.184-3.252-2.764-3.252-1.274 0-1.845.7-2.165 1.193v.025h-.016a5.54 5.54 0 0 1
.016-
.025V6.169h-2.4c.03.678 0 7.225 0 7.225h2.4z"/>
</svg>

</td>
</tr>
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class="bi bi-linkedin"
viewBox="0 0 16 16">
<path d="M0 1.146C0 .513.526 0 1.175 0h13.65C15.474 0 16 .513 16 1.146v13.708c0
.633-
.526 1.146-1.175 1.146H1.175C.526 16 0 15.487 0 14.854V1.146zm4.943
12.248V6.169H2.542v7.225h2.401zm-1.2-8.212c.837 0 1.358-.554 1.358-1.248-.015-.709-
.52-1.248-
1.342-1.248-.822 0-1.359.54-1.359 1.248 0 .694.521 1.248 1.327 1.248h.016zm4.908
8.212V9.359c0-
.216.016-.432.08-.586.173-.431.568-.878 1.232-.878.869 0 1.216.662 1.216
1.634v3.865h2.401V9.25c0-
2.22-1.184-3.252-2.764-3.252-1.274 0-1.845.7-2.165 1.193v.025h-.016a5.54 5.54 0 0 1
.016-
.025V6.169h-2.4c.03.678 0 7.225 0 7.225h2.4z"/>
</svg>

</td>
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.526 1.146-1.175 1.146H1.175C.526 16 0 15.487 0 14.854V1.146zm4.943
12.248V6.169H2.542v7.225h2.401zm-1.2-8.212c.837 0 1.358-.554 1.358-1.248-.015-.709-
.52-1.248-
1.342-1.248-.822 0-1.359.54-1.359 1.248 0 .694.521 1.248 1.327 1.248h.016zm4.908
8.212V9.359c0-
.216.016-.432.08-.586.173-.431.568-.878 1.232-.878.869 0 1.216.662 1.216
1.634v3.865h2.401V9.25c0-
2.22-1.184-3.252-2.764-3.252-1.274 0-1.845.7-2.165 1.193v.025h-.016a5.54 5.54 0 0 1

```
.016-
.025V6.169h-2.4c.03.678 0 7.225 0 7.225h2.4z"/>
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</a>
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class="bi bi-linkedin"
viewBox="0 0 16 16">
<path d="M0 1.146C0 .513.526 0 1.175 0h13.65C15.474 0 16 .513 16 1.146v13.708c0
.633-
.526 1.146-1.175 1.146H1.175C.526 16 0 15.487 0 14.854V1.146zm4.943
12.248V6.169H2.542v7.225h2.401zm-1.2-8.212c.837 0 1.358-.554 1.358-1.248-.015-.709-
.52-1.248-
1.342-1.248-.822 0-1.359.54-1.359 1.248 0 .694.521 1.248 1.327 1.248h.016zm4.908
8.212V9.359c0-
.216.016-.432.08-.586.173-.431.568-.878 1.232-.878.869 0 1.216.662 1.216
1.634v3.865h2.401V9.25c0-
2.22-1.184-3.252-2.764-3.252-1.274 0-1.845.7-2.165 1.193v.025h-.016a5.54 5.54 0 0 1
.016-
.025V6.169h-2.4c.03.678 0 7.225 0 7.225h2.4z"/>
</svg>
</a>
</td>
</tr>
</table>
</div>
<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.js"
integrity="sha384-
IQsoLX15PILFhosVNubq5LC7Qb9DXgDA9i+tQ8Zj3iwWAwPtgFTxbJ8NT4GN1R8p"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.min.js"
integrity="sha384-
cVKIPhGWic2Al4u+LWgxfKTRIfcu0JTxR+EQDz/bgldoEyl4H0zUF0QKbrJ0EcQF"
crossorigin="anonymous"></script>
</body>
</html>
Style.css
body {
margin: 0px;
padding: 0px;
background-color: rgb(69, 54, 54);
}
```



```
* {
box-sizing: border-box;
}
ul {
list-style: none;
}
a {
text-decoration: none !important;
}
nav {
min-height: 60px;
width: 100%;
/* background-color: red; */
/* border-top: 1px solid black !important; */
position: relative;
display: flex;
justify-content: space-around;
align-items: center;
flex-flow: row wrap;
}
.logo h2 {
font-size: 30px;
font-weight: bold;
font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', Roboto, Oxygen, Ubuntu,
Cantarell,
'Open Sans', 'Helvetica Neue', sans-serif;
color: white !important;
text-decoration: none !important;
letter-spacing: 1px;
}
nav .menu {
display: flex;
flex-flow: row wrap;
justify-content: center;
align-items: center;
}
nav .menu li a {
height: 35px;
line-height: 30px;
display: flex;
text-transform: uppercase;
align-items: center;
padding: 0px 22px;
font-size: 15px;
font-weight: bold;
color: white;
font-family: 'Poppins', sans-serif;
```

```
letter-spacing: 1px;
}
nav .menu li a:hover {
color: black;
background-color:white;
border-radius: 20px;
}
#main {
/* padding-top: 98px; */
}
.banner {
height: 620px;
width: 100%;
display: flex;
flex-wrap: column;
justify-content: center;
align-items: center;
background-color: black;
border: 1px solid rgb(98, 4, 4);
}
.banner img {
height: 100%;
width: 100%;
padding: 2px;
}
.head-git{
height: 40px;
width: 100%;
justify-content: center;
align-items: center;
background-color: rgb(250, 244, 244);
display: flex;
flex-flow: row;
margin-bottom: 5px;
}
.head-git h2 {
font-size: 18px;
font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
color:black;
}
.head-git h2 a {
text-decoration: none ;
color:blue;
font-size: 23px;
}
.head-git h2 a:hover {
color:rgb(211, 47, 41);
```

```
background-color: beige;
}
.nav-link {
height: 100%;
width: 100%;
color: black;
}
.head {
height: 50px;
width: 100%;
display: flex;
align-items: center;
justify-content: center;
color: white;
font-size: 30px;
font-weight: bold;
font-family: 'Times New Roman', Times, serif;
padding-left: 20px;
padding-top: 10px;
}
.wrapper {
height: 400px;
width: 100%;
display: flex;
align-items: center;
padding: 10px;
justify-content: space-between;
/* background-color: rgb(68, 47, 47); */
}
.wrapper .item {
height: 300px;
min-width: 30%;
border-radius: 20px;
margin: 10px;
box-shadow: 10px 10px 10px rgba(0, 0, 0, 0.4);
padding: 0.5px;
flex-flow: column wrap;
border-bottom: 1px white;
}
.wrapper .item img {
height: 100%;
width: 100%;
}
.c-box {
height: content;
max-width: 50%;
display: flex;
```

```
align-items: center;
padding: 10px;
flex-flow: column;
padding: 1px;
}
.c-box .content {
height: content;
min-width: 30%;
display: flex;
align-items: center;
flex-flow: row wrap;
}
.c-box .content p {
color: #fff;
font-size: 15px;
font-weight: bold;
font-family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode',
Geneva,
Verdana, sans-serif;
}
.c-box .content h2 {
color: yellow;
font-size: 20px;
font-weight: bold;
font-family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode',
Geneva,
Verdana, sans-serif;
}
.head-f{
height: 40px;
width: 100%;
justify-content: center;
align-items: center;
border-top: 2px solid black;
background-color: yellow;
display: flex;
flex-flow: column;
}
.head-f h2 {
font-size: 15px;
font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
color:black;
}
Style2.css
body{
margin: 0;
padding: 0;
```

```
display: flex;
justify-content: center;
align-items: center;
min-height: 100vh;
font-family: 'Jost', sans-serif;
background: linear-gradient(to bottom, #0f0c29, #302b63, #24243e);
}
.main{
width: 350px;
height: 500px;
background: red;
overflow: hidden;
background: url("https://doc-08-
2cdocs.googleusercontent.com/docs/securesc/68c90smiglihng9534mvqmq1946dmis5/fo0pic
sp1nhiucmc0l2
5s29respgpr4j/1631524275000/03522360960922298374/03522360960922298374/1Sx0jhdp
EpnNIydS4r
nN4kHSJtU1EyWka?e=view&authuser=0&nonce=gcrocepghb17m&user=03522360960922
298374&has
h=tfhgbs86ka6divo3llbvp93mg4csvb38") no-repeat center/ cover;
border-radius: 10px;
box-shadow: 5px 20px 50px #000;
}
#chk{
display: none;
}
.signup{
position: relative;
width: 100%;
height: 100%;
}
label{
color: #fff;
font-size: 2.3em;
justify-content: center;
display: flex;
margin: 60px;
font-weight: bold;
cursor: pointer;
transition: .5s ease-in-out;
}
input{
width: 60%;
height: 20px;
background: #e0dede;
justify-content: center;
display: flex;
```

```
margin: 20px auto;
padding: 10px;
border: none;
outline: none;
border-radius: 5px;
}
button{
width: 60%;
height: 40px;
margin: 10px auto;
justify-content: center;
display: block;
color: #fff;
background: #573b8a;
font-size: 1em;
font-weight: bold;
margin-top: 20px;
outline: none;
border: none;
border-radius: 5px;
transition: .2s ease-in;
cursor: pointer;
}
button:hover{
background: #6d44b8;
}
.login{
height: 460px;
background: #eee;
border-radius: 60% / 10%;
transform: translateY(-180px);
transition: .8s ease-in-out;
}
.login label{
color: #573b8a;
transform: scale(.6);
}
#chk:checked ~ .login{
transform: translateY(-500px);
}
#chk:checked ~ .login label{
transform: scale(1);
}
#chk:checked ~ .signup label{
transform: scale(.6);
}
app.py
```

```

from cloudant.client import Cloudant
from cloudant.error import CloudantException
from cloudant.result import Result, ResultByKey
from flask import Flask, render_template, request
from newsapi import NewsApiClient
serviceUsername = "50ab9a31-993d-4eaf-abf1-21c6f737b08c-bluemix"
servicePassword =
"6864bc1c41f5701310846a0a80700140c138e7c82b8c7f678ce5ab877f8b90b9"
serviceURL = "https://50ab9a31-993d-4eaf-abf1-
21c6f737b08cbluemix:6864bc1c41f5701310846a0a80700140c138e7c82b8c7f678ce5ab877f
8b90b9@50ab9a31-993d4eaf-abf1-21c6f737b08c-
bluemix.cloudantnosqldb.appdomain.cloud"
client = Cloudant(serviceUsername, servicePassword, url=serviceURL)
client.connect()
app = Flask(__name__)
@app.route("/news")
def news():
api_key = '4f625485702d4929a546bcf4eb9d5c79'
newsapi = NewsApiClient(api_key=api_key)
top_headlines = newsapi.get_top_headlines(sources = "the-verge")
all_articles = newsapi.get_everything(sources = "the-verge")
t_articles = top_headlines['articles']
a_articles = all_articles['articles']
news = []
desc = []
img = []
p_date = []
url = []
for i in range (len(t_articles)):
main_article = t_articles[i]
news.append(main_article['title'])
desc.append(main_article['description'])
img.append(main_article['urlToImage'])
p_date.append(main_article['publishedAt'])
url.append(main_article['url'])
contents = zip( news,desc,img,p_date,url)
news_all = []
desc_all = []
img_all = []
p_date_all = []
url_all = []
for j in range(len(a_articles)):
main_all_articles = a_articles[j]
news_all.append(main_all_articles['title'])
desc_all.append(main_all_articles['description'])
img_all.append(main_all_articles['urlToImage'])
p_date_all.append(main_all_articles['publishedAt'])

```

```

url_all.append(main_article['url'])
all = zip( news_all,desc_all,img_all,p_date_all,url_all)
return render_template('home.html',all = all)
@app.route("/search",methods = ['POST', 'GET'])
def searchFunc():
inputText = request.form['nm']
api_key = '4f625485702d4929a546bcf4eb9d5c79'
newsapi = NewsApiClient(api_key=api_key)
top_headlines = newsapi.get_top_headlines(sources="bbc-news")
all_articles = newsapi.get_everything(q=inputText)
t_articles = top_headlines['articles']
a_articles = all_articles['articles']
news = []
desc = []
img = []
p_date = []
url = []
for i in range (len(t_articles)):
main_article = t_articles[i]
news.append(main_article['title'])
desc.append(main_article['description'])
img.append(main_article['urlToImage'])
p_date.append(main_article['publishedAt'])
url.append(main_article['url'])
contents = zip( news,desc,img,p_date,url)
news_all = []
desc_all = []
img_all = []
p_date_all = []
url_all = []
for j in range(len(a_articles)):
main_all_articles = a_articles[j]
news_all.append(main_all_articles['title'])
desc_all.append(main_all_articles['description'])
img_all.append(main_all_articles['urlToImage'])
p_date_all.append(main_all_articles['publishedAt'])
url_all.append(main_article['url'])
all = zip( news_all,desc_all,img_all,p_date_all,url_all)
return render_template('home.html', all = all)
def addNewUser(userName,userEmail,userPassword):
jsondata = { }
jsondata["userName"] = str(userName)
jsondata["userEmail"] = str(userEmail)
jsondata["userPassword"] = str(userPassword)
myDataBase = client['database1']
newDocument = myDataBase.create_document(jsondata)
def authenticate(userName,userEmail):

```

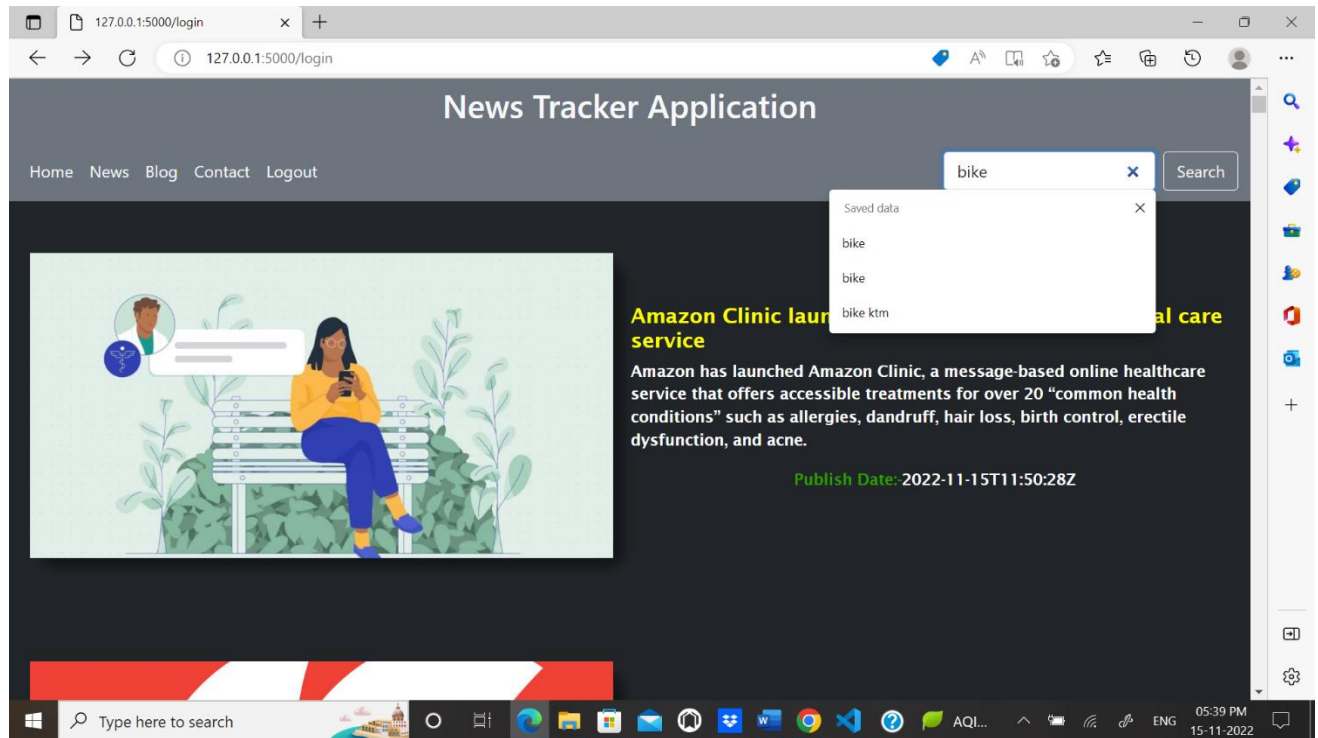


```

myDataBase = client['database1']
result_collection = Result(myDataBase.all_docs, include_docs=True)
for data in result_collection:
    if data['doc']['userName'] == str(userName):
        return True
    if data['doc']['userEmail'] == str(userEmail):
        return True
    return False
def authenticateLogin(userEmail,userPassword):
    myDataBase = client['database1']
    result_collection = Result(myDataBase.all_docs, include_docs=True)
    for data in result_collection:
        if data['doc']['userPassword'] == str(userPassword) and data['doc']['userEmail'] ==
        str(userEmail):
            return True
        return False
@app.route("/login",methods = ['POST', 'GET'])
def loginUser():
    userEmail = request.form.get("email")
    userPassword = request.form.get("pswd")
    if(authenticateLogin(userEmail,userPassword)):
        return news()
    return render_template("index.html")
@app.route("/register",methods = ['POST', 'GET'])
def registerUserData():
    userName = request.form.get("un")
    userEmail = request.form.get("ue")
    userPassword = request.form.get("up")
    print(userEmail,userName,userPassword)
    if(authenticate(userName=userName,userEmail=userEmail)):
        return render_template("index.html")
    addNewUser(userName,userEmail,userPassword)
    return news()
@app.route("/")
def home():
    return render_template("index.html")
@app.route("/contact")
def hh():
    return render_template("contact.html")
if __name__ == '__main__':
    app.run(debug=True)

```

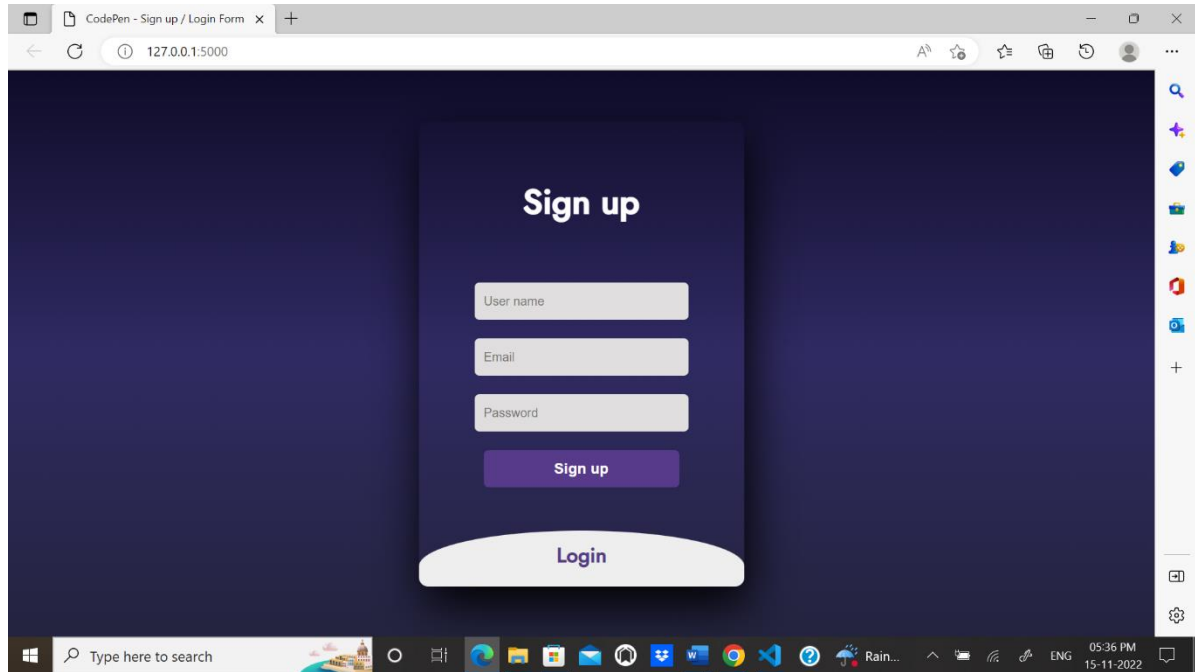
7.1 Feature 2

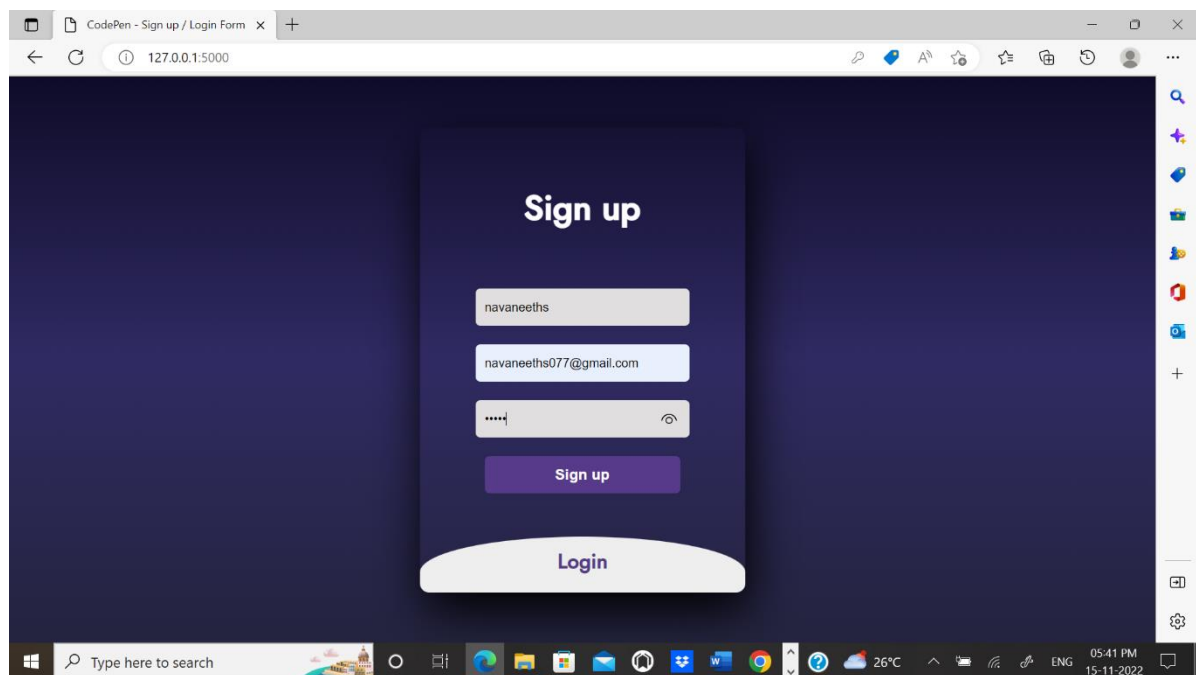
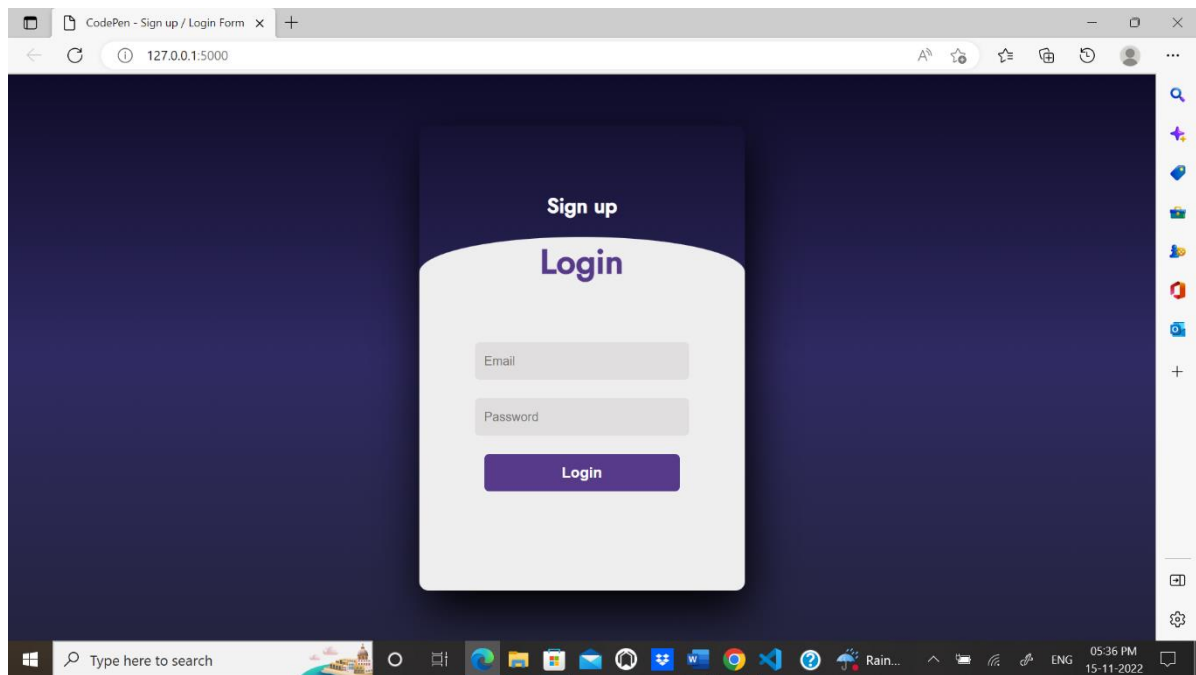


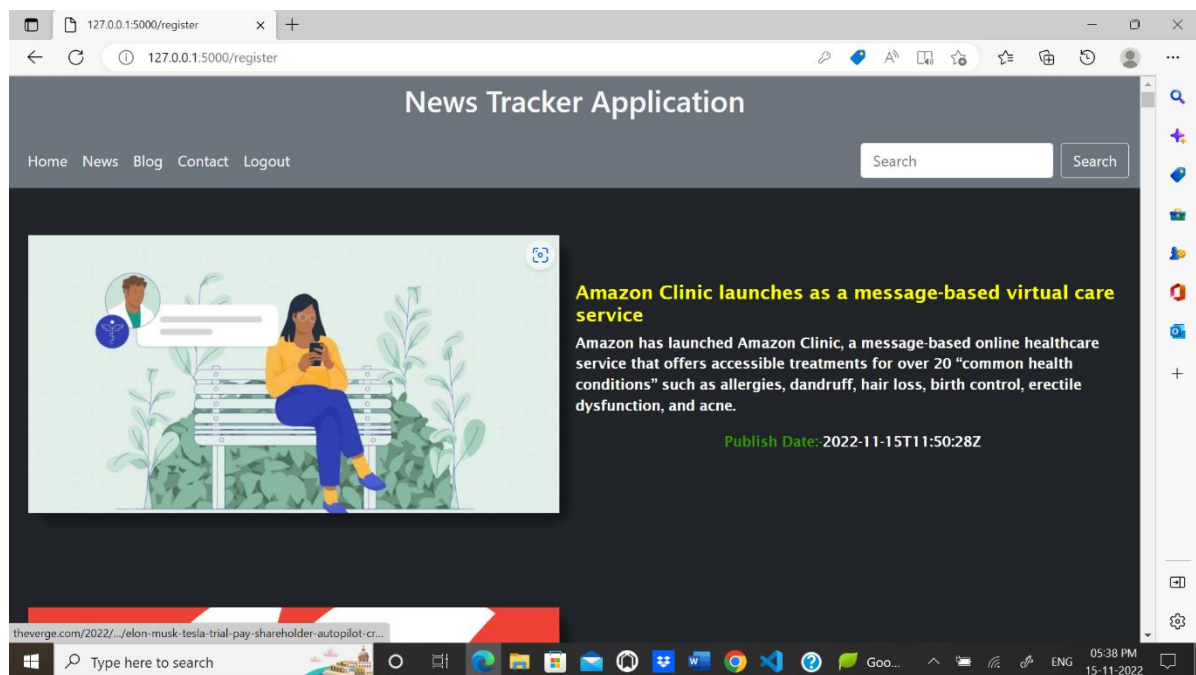
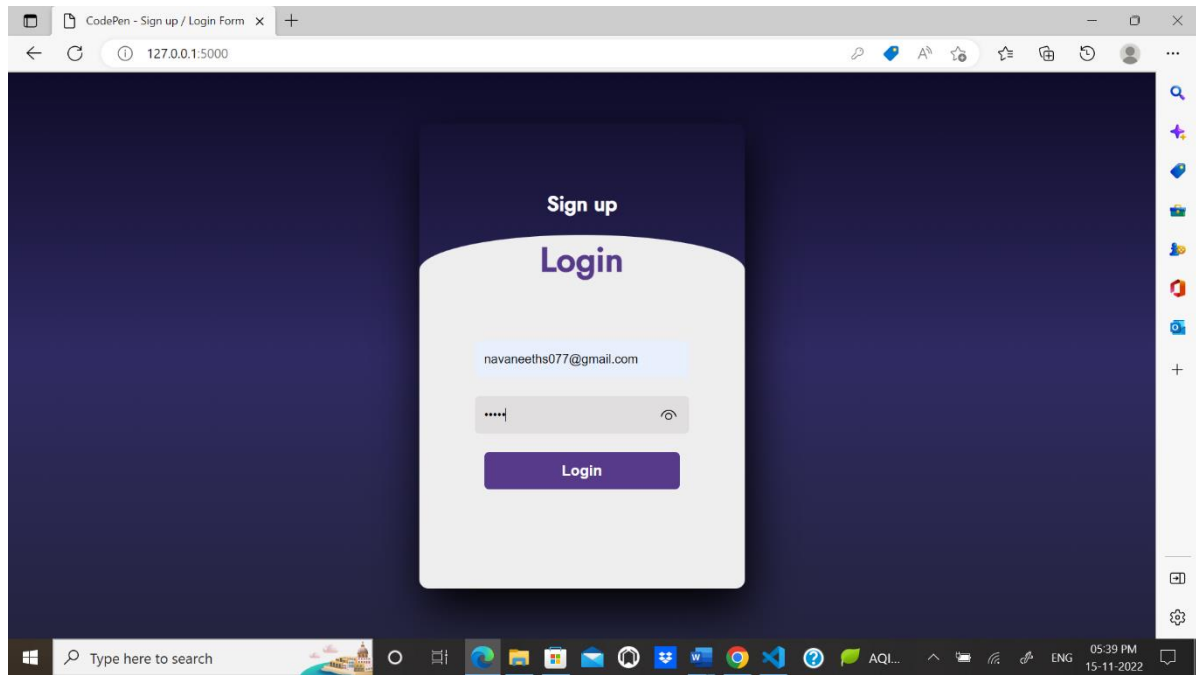
- User can search required news
- Find particular news

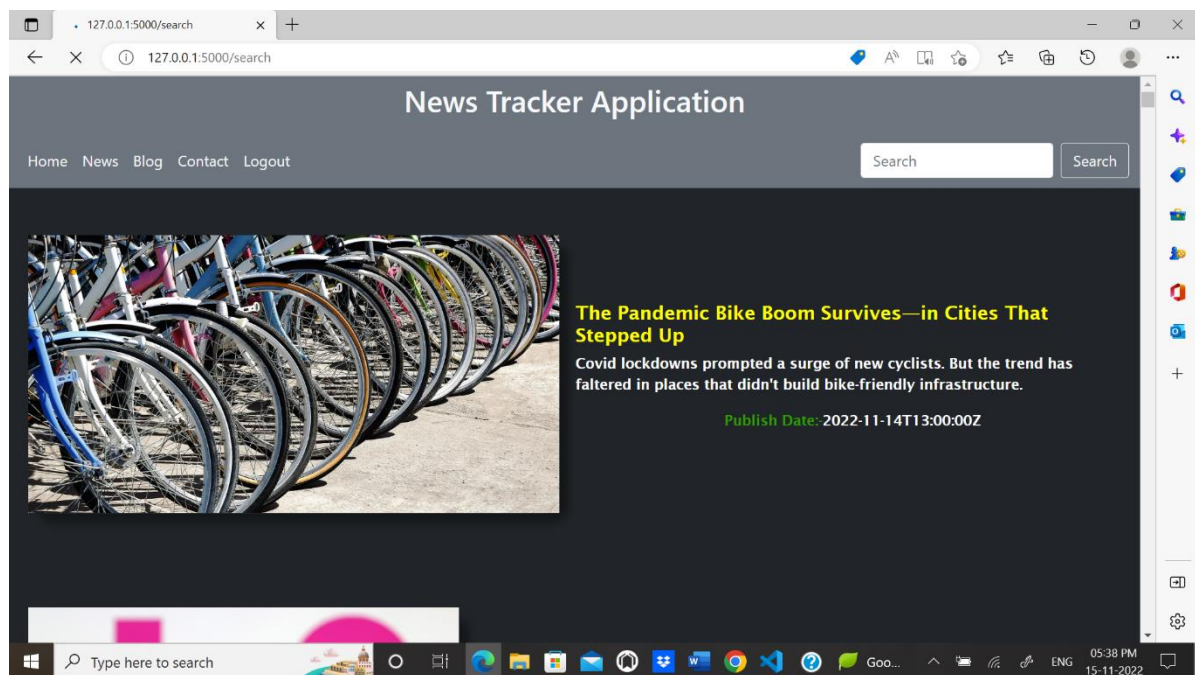
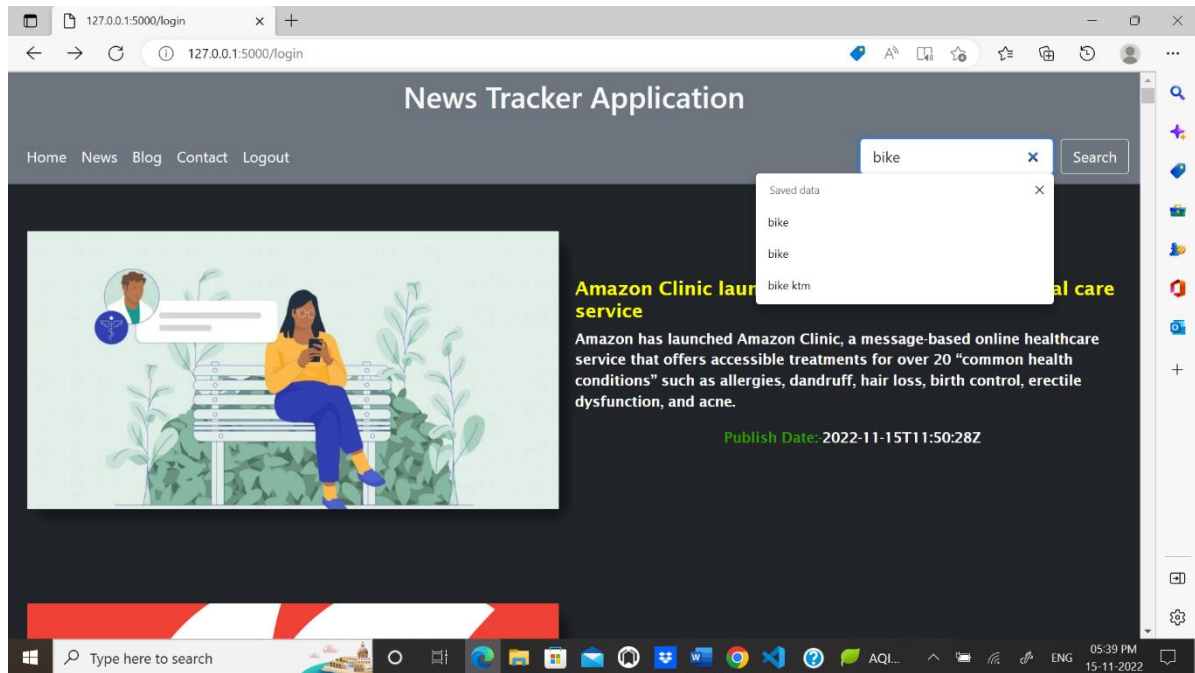
8. RESULTS

8.1 Performance Metrics









9. ADVANTAGES

This app saves lots of time by categorising the news which makes the user to read the relevant news they want.

DISADVANTAGES

The user always requires Internet Connection to use this Application. By categorising the news, the user could not able to access other important news that happens.

10. CONCLUSION

Hence this application satisfies the user and encourage them to study the news. They can able to read the news from compact mobile phones to so they no need to carry the newspapers to every place they go. With good interface the users are satisfied. By collecting the requirements, the users are provided the news categories that they can choose to need. And also the search option is provided for user to search for the particular news they need.

This application is reliable with good user interface. The application is secure with the Secure Sockets Layer. The use of IBM cloud makes the application available in all places including remote areas with the presence of good internet facility.

11. FUTURE SCOPE

Providing the facility to the user to choose the country the need to know. Locating the location of the user and providing the news based on his/her location. And changing of news data if the user moves from one location to other. And providing the facilities to the user to the news offline. The security of the user data can be improved. The user can be verified before registering.

12. APPENDIX

Source Code:

<https://github.com/IBM-EPBL/IBM-Project-42712-1660707780>