News Tracker Application

Team Members

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Team ID

PNT2022TMID27406

Project Report Format

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1. **INTRODUCTION**

a. Project Overview

With the quick advancement of technology, we now have networks and fast connections that allow us to communicate with people right away. Daily use of mobile devices, tablets, and laptops is rising, with the majority. Most people already have access to these amenities. We must keep up with all happenings and news in our quick and information-driven environment. Users of this Android news app can access the most recent news from 120+ newspapers in 50+ countries. This application's major goal is to connect news stories from all around the world and provide them to users as quickly as possible in the best visual manner.

b. Purpose

The purpose of this application is to provide a smooth news reading experience to the users of this application. Moreover, it is useful to a variety of users with all the age groups.

2. LITERATURE SURVEY

a. Existing Problem

With the usage of the application on a day-to-day basis, the application needs to be taken care of without crashing.

b. References

1. News Crew Tracker:

News Crew Tracker is a geo-location and assignment management tool developed and reviewed by journalists and photographers to solve the problem of not knowing where staffs are located and what they're currently working on.

2. Flipboard:

Flipboard is based around the idea of creating a digital magazine curated by the user. It borders on RSS reader, but it's definitely more of a news app, so it made the cut. The user can be as broad or specific as the user like with Flipboard, point it toward a general topic like technology or productivity, or specify one site in particular that you want to keep up with, and Flipboard mixes everything together seamlessly.

3. Android News App:

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. This News app is an android mobile application where user have access to latest news from 120+ newspapers from 50+ countries.
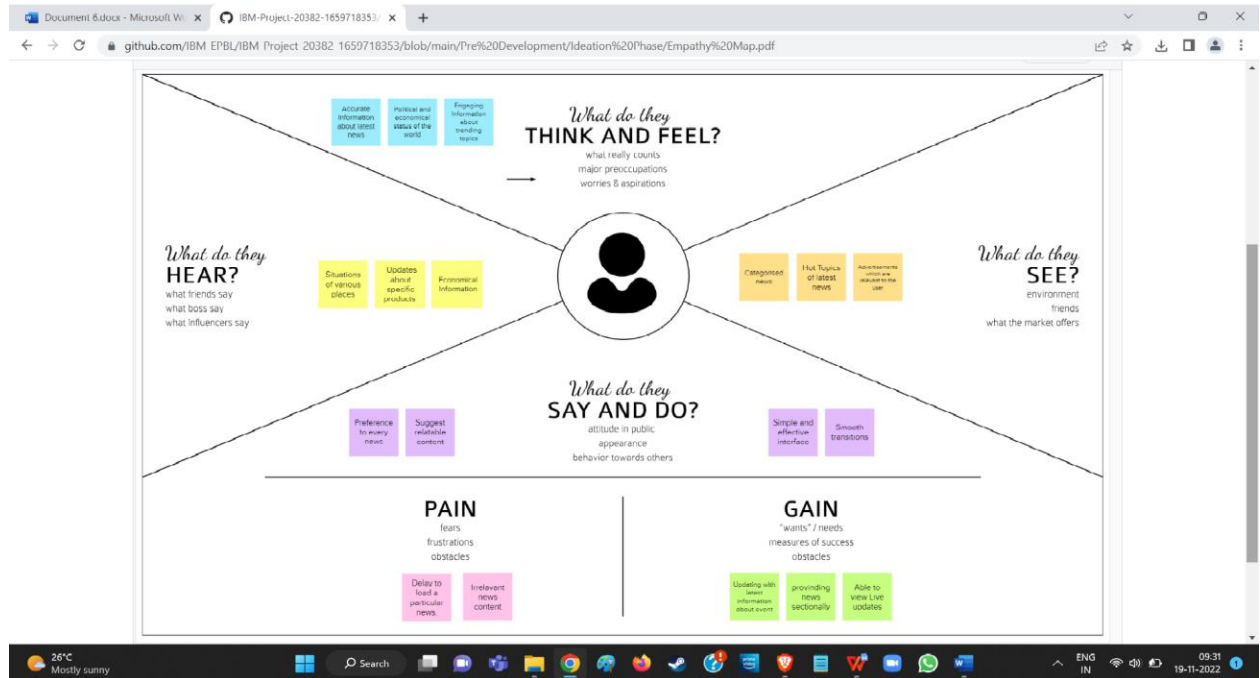
4. TECHNOMANIA :

Project is to provide people a handy android application through which people can access all types of news and information. Through this application, any user can gain technical knowledge of the world and its surrounding with just one click ahead. User does not have to visit multiple sites for different related information. All information is going to be in one place.

c.   Problem Statement Definition

Why did we choose this option out of all the ones offered to us? We, as a team, believed that the sector has a sizable audience that we could take advantage of. And melodramatically speaking, we thought about all the issues customers in this area were having as seldom users of the news app. We believed that although the majority of people use news applications, this area may still be underutilized.

3.   **IDEATION & PROPOSED SOLUTION**

a.   Empathy Map

b. Ideation & Brainstorming

c. Proposed solution

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The Random update of various and different news events without any categorization. Finding the specific or particular news about anything among thee random ads and span pop ups.
2.	Idea / Solution description	Compact preview of news. Search news with speech recognition. Reduced Buffer time to load the news. Prioritize the main news. Irrelevant news will not be shown.
3.	Novelty / Uniqueness	Only the news from the user's area of interest will be shown. The main news is prioritized based on others review. Various details can be collected from the specific news.
4.	Social Impact / Customer Satisfaction	Money can be saved from buying news paper everyday and most probably it can be accessed from different locations.
5.	Business Model (Revenue Model)	Alignment of the adds at a separate section, with this a revenue can be obtained. Providing membership and reducing

d. Problem Solution Fit

Define CS, fit into CC	**1.CUSTOMER SEGMENT(S)** `CS` People above the age of 10.	**6.CUSTOMER CONSTRAINTS** `CC` Budget, network connection, availability of storage, spending power	**1. AVAILABLE SOLUTIONS** `AS` People tried storing newspapers in storage rooms segregated by year, incidents, etc. But the thing was it occupied large storage areas and it was it difficult to keep track of all kinds of news. Later came the usage of scanning process.	Explore AS, differentiate
Focus on J&P, tap into BE, understand RC	**2.JOBS-BE-DONE / PROBLEMS** `J&P` Proper database methodologies needs to be followed for storage purpose.	**9.PROBLEM ROOT CAUSE** `RC` Customers doesn't have access to old information but with the help of this application they will be able to obtain it.	**7.BEHAVIOUR** `BE` Find right storage devices, calculate usage per day.	Focus on J&P, tap into BE, understand RC
Identify strong TR & EM	**3.TRIGGERS** `TR` Seeing their friends or family members using this application or through you tube advertisements. **4.EMOTIONS : BEFORE / AFTER** `EM` Lost, insecure > confident, in control & design.	**10.YOUR SOLUTION** `SL` With the help of databases we deliver an application that is very convenient for users to search for desired topics.	**8.CHANNELS of BEHAVIOUR** `CH` **8.1 ONLINE** The customers search for the desired news in various websites. **8.2 OFFLINE** The customers search for the desired news through old newspaper.	Identify strong TR & EM

4. REQUIREMENT ANALYSIS

a. Functional Requirement

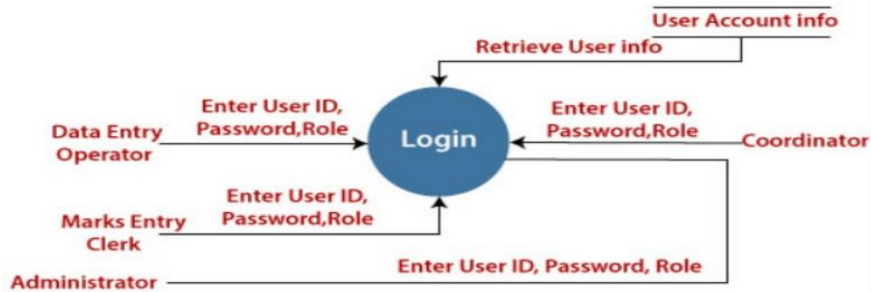| FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form
FR-2	User Confirmation	Confirmation via Email
FR-3	User Login	Login Via Email ID & Password
FR-4	Home Page	Shows the NEWS Headlines.
FR-5	Tracker Page	Shows the NEWS elaboratively when the NEWS Headline of the home page is clicked

b. Non-Functional Requirements

FR No.	Non-functional requirement	Description
NFR-1	Usability	Our website is used to Read News and gain Knowledge according to user's interest.
NFR-2	Security	User can only login with their own Email ID and password without their Email and password no one can use the App.
NFR-3	Reliability	Our website delivers the reliable content only from NEWS API.
NFR-4	Performance	It is a high performable App with friendly User Interface and shares lot of information without any Issues.
NFR-5	Availability	Our Website is supported with all search Engine so it will Avail forUser at any time.
NFR-6	Scalability	This Website is built with high data storage capacity,processing power and networking can all be scaled using cloud computing. Infrastructure.scaling can be done quickly and easily.

5. PROJECT DESIGN

a. Data Flow Diagram

2. Login

The level 2 DFD of this process is given below:

b. Solution & Technology Architecture
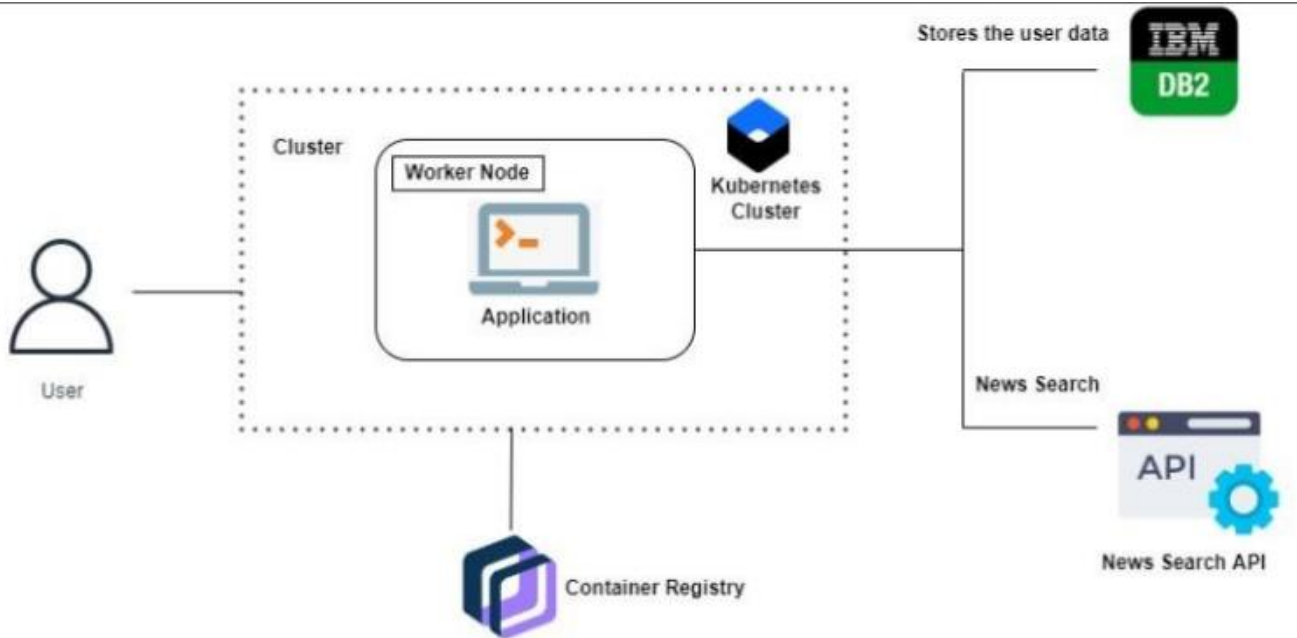
c. User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registratin	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 Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-1
	Dashboard					
Customer (Web user)						
Customer Care Executive						
Administrator						

6. PROJECT PLANNING & SCHEDULING

a. Sprint planning & Estimation

TITLE	DESCRIPTION	DATE
Literature Survey & Information Gathering	Literature survey on the selected project & gathering information by referring the, technical papers, research publications etc.	24 SEPTEMBER 2022
Prepare Empathy Map	Prepare Empathy Map Canvas to capture the user Pains & Gains, Prepare list of problem statements	25 SEPTEMBER 2022
Ideation	List the by organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility & importance.	27 SEPTEMBER 2022
Proposed Solution	Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc.	27 SEPTEMBER 2022
Problem Solution Fit	Prepare problem - solution fit document.	30 SEPTEMBER 2022
Customer Journey	Prepare the customer journey maps to understand the user interactions & experiences with the application (entry to exit).	18 OCTOBER 2022

Functional Requirement	Prepare the functional requirement document.	18 OCTOBER 2022	
Technology Architecture	Prepare the technology architecture diagram.	18 OCTOBER 2022	
Data Flow Diagrams	Draw the data flow diagrams and submit forreview.	19 OCTOBER 2022	
Prepare Milestone & Activity List	Prepare the milestones & activity list of the project.	26 OCTOBER 2022	
Project Development - Delivery of Sprint-1, 2, 3 & 4	Develop & submit the developed code by testing it.	26 OCTOBER 2022	

b.   Sprint Delivery Schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Gokul Prasad
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Rishi Babu

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1		USN-3	As a user, I can register for the application through Facebook	2	Low	Mithwin Immanuel Stanley
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	Venkatesh R
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Rishi Babu, Mithwin
Sprint-2	Dashboard	USN-6	As a user I should be able to navigate and access all the features hassle free	2	High	Rishi Babu, Venkatesh R
Sprint-2	Layout	USN-7	As a user I should be able to access the portal with different devices with the same comfort	2	High	Gokulprasath, Mithwin
Sprint-3	Data Store and retrieval	USN-8	Get Data from API and store as JSON in DB2	3	High	Mithwin, Rishi Babu
Sprint-3		USN-9	Get bin data from API and store in DFS	2	High	Gokul, Rishi
Sprint-4	User Segregation and data access	USN-10	As a CC executive I should be able to uniquely identify the customer and offer help	1	Low	Venkatesh, Mithwin
Sprint	**Functional Requiremen t (Epic)**	**User Story Number**	**User Story / Task**	**Story Points**	**Priority**	**Team Membe rs**
Sprint-4	Change code	USN-11	As a administrator I should be able to modify code according to the future requirements.	2	Medium	Gokul, Rishi
Sprint-4	Monitor the system	USN-12	As a administrator I should be able to monitor the cloud system and fix errors before customer.	1	High	Venkatesh, Mithwin

7. CODING & SOLUTIONING

Home.html

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

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <link rel="stylesheet" href="style.css">
  <title>Navigation</title>
  <style>
    .navbar{
      background-color: black;
      border-radius: 30px;


    }
    .navbar ul{
      overflow: auto;
    }
    .navbar li{
      float:left;
      list-style: none;
      margin: 13px 20px;
```

```
        }
        .navbar li a{
            padding: 3px 3px;
            text-decoration: none;
            color: white;
        }
        .navbar li a:hover{
            color: red
        }
        .search{
            float: right;
            color: white;
            padding: 12px 75px;
        }
        .navbar input{
            border: 2px solid black;
            border-radius: 14px;
            padding: 3px 17px;
            width: 129px;
        }
    </style>
</head>

<body>
    <header>
        <nav class="navbar">
            <ul>
                <li><a href="#">Home</a></li>
                <li><a href="#">About</a></li>
                <li><a href="#">Services</a></li>
                <li><a href="#">Contact us</a></li>
```

```html
        <div class="search">

          <input type="text" name="search" id="search" placeholder="Search this website">

        </div>

      </ul>

    </nav>

  </header>

  <div class="cards">

    <article class="card">

      <header>

        <h2>Army Recruitment</h2>

      </header>

      <img src="army.jpg" >

      <div class="content">

        <p> The recruitment process for the Indian army has been announced, Eligible candidates can participate. </p>

      </div>


    </article>


     <article class="card">

      <header>

        <h2>Virus Awareness</h2>

      </header>

      <img src="virus.jpg" >

      <div class="content">

        <p>the rapid increase in the virus has brought various effects, the public have been warned to wear their mask properly.</p>

      </div>


    </article>
```

```html
<article class="card">
  <header>
    <h2>England to lift the T20 World cup</h2>
  </header>
  <img src="match.jpg">
  <div class="content">
    <p>England bashes their victory to lift the t20 world cup against Paksitan.</p>
  </div>
</article>
<article class="card">
  <header>
    <h2>Politics</h2>
  </header>
  <img src="parliment.jpg" >
  <div class="content">
    <p> India is a parliamentary democratic secular republic in which the president of India
      is the head of state & first citizen of India and the prime minister of India is the head of government.
      It is based on the federal structure of government. </p>
  </div>
  <script>
    window.watsonAssistantChatOptions = {
      integrationID: "d7acbf05-5f3b-4e39-8e1e-5be1a59180cf", // The ID of this integration.
      region: "au-syd", // The region your integration is hosted in.
      serviceInstanceID: "15532175-88b1-48f3-aba9-6bb561d10dc5", // 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>


    </article>
  </div>
</body>


</html>
```

Form.html

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
  <head>
    <meta charset="utf-8">
    <title>Sign Up | Log In</title>
    <link rel="stylesheet" href="style.css">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
    <div class="wrapper">
      <div class="title-text">
        <div class="title login">
          Account
        </div>
        <div class="title signup">
          Account
        </div>
      </div>
      <div class="form-container">
        <div class="slide-controls">
```

```html
    <input type="radio" name="slide" id="login" checked>
    <input type="radio" name="slide" id="signup">
    <label for="login" class="slide login">Login</label>
    <label for="signup" class="slide signup">SignUp</label>
    <div class="slider-tab"></div>
</div>
<div class="form-inner">
    <form action="#" class="login">
        <div class="field">
            <input type="text" placeholder="Email Address" required>
        </div>
        <div class="field">
            <input type="password" placeholder="Password" required>
        </div>
        <div class="pass-link">
            <a href="#">Reset password?</a>
        </div>
        <div class="field btn">
            <div class="btn-layer"></div>
            <input type="submit" value="Login">
        </div>
        <div class="signup-link">
            Don't Have Account? <a href="">Create A New</a>
        </div>
    </form>
    <form action="#" class="signup">
        <div class="field">
            <input type="text" placeholder="Email Address" required>
        </div>
        <div class="field">
            <input type="password" placeholder="Password" required>
```

```html
          </div>

          <div class="field">

            <input type="password" placeholder="Confirm Password" required>

          </div>

          <div class="field btn">

            <div class="btn-layer"></div>

            <input type="submit" value="SignUp">

          </div>

        </form>

      </div>

    </div>

  </div>

<script>

  const loginText = document.querySelector(".title-text .login");

  const loginForm = document.querySelector("form.login");

  const loginBtn = document.querySelector("label.login");

  const signupBtn = document.querySelector("label.signup");

  const signupLink = document.querySelector("form .signup-link a");

  signupBtn.onclick = (()=>{

    loginForm.style.marginLeft = "-50%";

    loginText.style.marginLeft = "-50%";

  });

  loginBtn.onclick = (()=>{

    loginForm.style.marginLeft = "0%";

    loginText.style.marginLeft = "0%";

  });

  signupLink.onclick = (()=>{

    signupBtn.click();

    return false;

  });

</script>
```

```
    </body>
</html>
        Style.css
@import url('https://fonts.googleapis.com/css2?family=Raleway:wght@300&display=swap');


*{
  margin: 0;
  padding: 0;
  box-sizing: border-box;
  font-family: 'Raleway', sans-serif;
}
html,body{
  display: grid;
  height: 100%;
  width: 100%;
  place-items: center;
  background: -webkit-linear-gradient(left, #9896F0,#FBC8D5);
}
::selection{
  background: #12e8f0;
  color: #fff;
}
.wrapper{
  overflow: hidden;
  max-width: 390px;
  background: #fff;
  padding: 30px;
  border-radius: 5px;
  box-shadow: 0px 15px 20px rgba(0,0,0,0.1);
}
.wrapper .title-text{
```

```css
    display: flex;
    width: 200%;
}
.wrapper .title{
    width: 50%;
    font-size: 35px;
    font-weight: 600;
    text-align: center;
    transition: all 0.6s cubic-bezier(0.68,-0.55,0.265,1.55);
}
.wrapper .slide-controls{
    position: relative;
    display: flex;
    height: 50px;
    width: 100%;
    overflow: hidden;
    margin: 30px 0 10px 0;
    justify-content: space-between;
    border: 1px solid lightgrey;
    border-radius: 5px;
}
.slide-controls .slide{
    height: 100%;
    width: 100%;
    color: #fff;
    font-size: 18px;
    font-weight: 500;
    text-align: center;
    line-height: 48px;
    cursor: pointer;
    z-index: 1;
```

```css
  transition: all 0.6s ease;

}

.slide-controls label.signup{

  color: #000;

}

.slide-controls .slider-tab{

  position: absolute;

  height: 100%;

  width: 50%;

  left: 0;

  z-index: 0;

  border-radius: 5px;

  background: -webkit-linear-gradient(left, #FBEE97, #ADEDD5);

  transition: all 0.6s cubic-bezier(0.68,-0.55,0.265,1.55);

}

input[type="radio"]{

  display: none;

}

#signup:checked ~ .slider-tab{

  left: 50%;

}

#signup:checked ~ label.signup{

  color: #fff;

  cursor: default;

  user-select: none;

}

#signup:checked ~ label.login{

  color: #000;

}

#login:checked ~ label.signup{

  color: #000;
```

```css
  }
  #login:checked ~ label.login{
    cursor: default;
    user-select: none;
  }
  .wrapper .form-container{
    width: 100%;
    overflow: hidden;
  }
  .form-container .form-inner{
    display: flex;
    width: 200%;
  }
  .form-container .form-inner form{
    width: 50%;
    transition: all 0.6s cubic-bezier(0.68,-0.55,0.265,1.55);
  }
  .form-inner form .field{
    height: 50px;
    width: 100%;
    margin-top: 20px;
  }
  .form-inner form .field input{
    height: 100%;
    width: 100%;
    outline: none;
    padding-left: 15px;
    border-radius: 5px;
    border: 1px solid lightgrey;
    border-bottom-width: 2px;
    font-size: 17px;
```

```css
  transition: all 0.3s ease;

}

.form-inner form .field input:focus{

  border-color: #12e8f0;

}

.form-inner form .field input::placeholder{

  color: #999;

  transition: all 0.3s ease;

}

form .field input:focus::placeholder{

  color: #b3b3b3;

}

.form-inner form .pass-link{

  margin-top: 5px;

}

.form-inner form .signup-link{

  text-align: center;

  margin-top: 30px;

}

.form-inner form .pass-link a,

.form-inner form .signup-link a{

  color: #0e45dd;

  text-decoration: none;

}

.form-inner form .pass-link a:hover,

.form-inner form .signup-link a:hover{

  text-decoration: underline;

}

form .btn{

  height: 50px;

  width: 100%;
```

```css
    border-radius: 5px;

    position: relative;

    overflow: hidden;

}

form .btn .btn-layer{

    height: 100%;

    width: 300%;

    position: absolute;

    left: -100%;

    background: -webkit-linear-gradient(right, #FBEE97, #ADEDD5, #FBEE97, #ADEDD5);

    border-radius: 5px;

    transition: all 0.4s ease;;

}

form .btn:hover .btn-layer{

    left: 0;

}

form .btn input[type="submit"]{

    height: 100%;

    width: 100%;

    z-index: 2;

    position: relative;

    background: none;

    border: none;

    color: #fff;

    padding-left: 0;

    border-radius: 10px;

    font-size: 20px;

    font-weight: 500;

    cursor: pointer;

}

.cards {
```

```
  display: grid;

  grid-template-columns: repeat(auto-fill, minmax(230px, 1fr));

  grid-gap: 20px;

}


.card {

  display: grid;

  grid-template-rows: max-content 200px 1fr;

}


.card img {

  object-fit: cover;

  width: 100%;

  height: 100%;

}
```
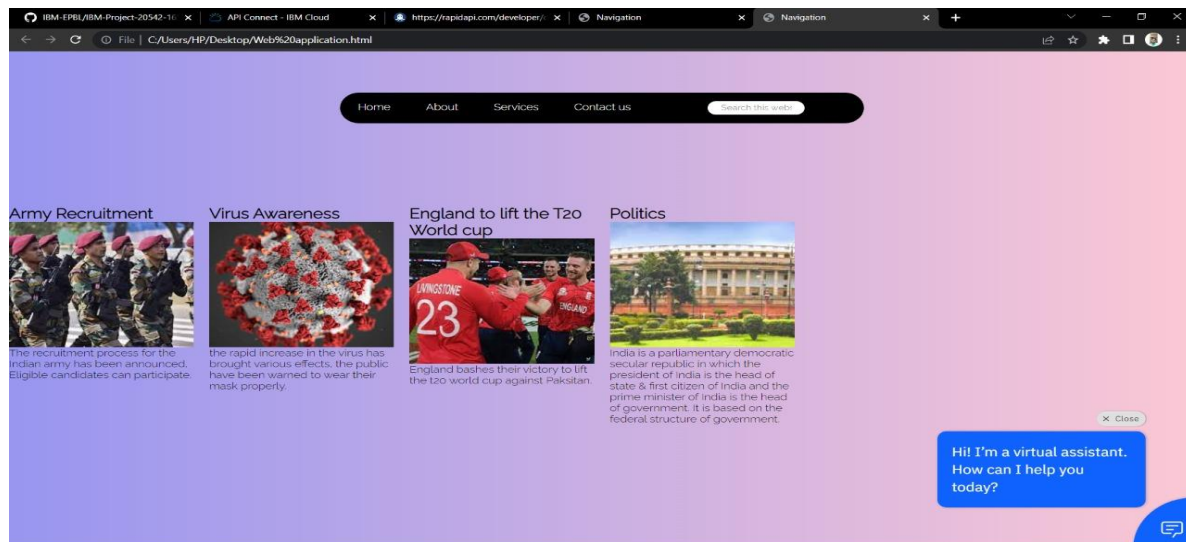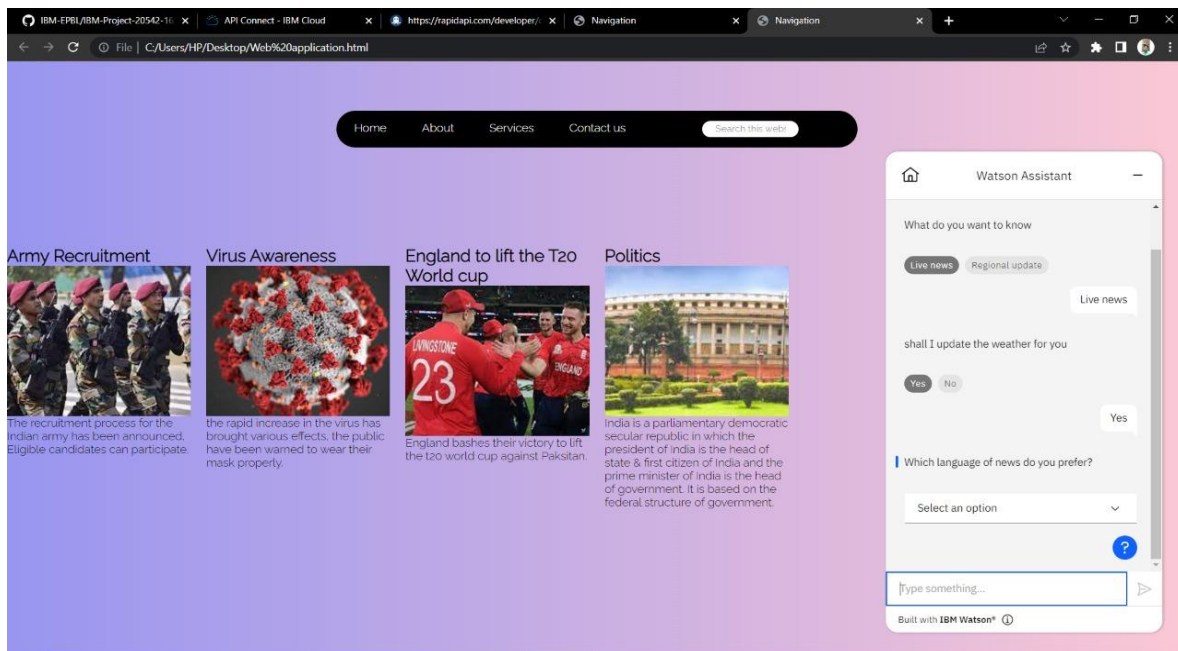
8. TESTING

9.   RESULTS

10.   ADVANTAGES AND DISADVANTAGES

a.   Advantages
      Own Your Channels

      Better User Experience

Higher Engagement

Push Notifications

Revenue Opportunities

App Store Presence

b. Disadvantages

1. Require data/Wi-Fi to get online
2. Companies not making as much money due to free reading for audiences
3. News spreads quicker online - people find out news before they should
4. Lose money - can't get people to pay for digital
5. Older audiences may not access digital platforms
6. Costly to maintain
7. Errors stay online FOREVER

11. CONCLUSION

This is fast evolving world with modernization taking a toll on the world, people nowadays prefer to spend time more on the gadgets rather than reading newspaper.

News site is an web application which makes news paper reading much interesting and easier.

The easily usable API and other softwares makes this application very user friendly and most of all save time.

12.   FUTURE SCOPE

Implement automated location functionality. This means that as a user moves from one city to another, the local news will change offline browsing can be improved to complete articles more efficiently. This version of app is in the seeding stage and there is a lot of room for future enhancements. Features that can be added for later versions are as follows:

1. Save video

2. Watch this later.

13.   APPENDIX

Source code

ajaxRequests.js

```
// const { readFileSync, promises: fsPromises } = require("fs");

$(document).ready(function () { testFunction();

function testFunction(){
// search_val = $("#searchBox").val(); search_val="india"

var queryString = { q: search_val };

$.ajax({

method: "POST", url: "/search",

contentType: "application/json;charset=utf-8", cache: false,
```

```
datatype: "text",

data: JSON.stringify(queryString), success: function (data) {

// alert("yes");

wholeJson = JSON.parse(data); articles=wholeJson['articles'];

// $("#news").text(data) showNews(articles);

},

error: function (data) {

// alert("error");

},

});

}

function showNews(articles) {

// articles = wholeJson["articles"];

var newslist = document.getElementById("newsList"); newslist.innerHTML = "";

for (var i = 0; i < articles.length; i++) { description = articles[i].description; image_url =
   articles[i].urlToImage; link_url = articles[i].url;

var a=document.createElement("a"); var li = document.createElement("li");



var image = document.createElement("img"); image.src = image_url;

image.innerHTML = "<img src=" + image_url + ' class="newsImages"/>'; li.innerHTML =

  '<div class="newsLi" id="news_' + i + '">' + description + "</div>"; li.appendChild(image);

a.setAttribute('href',link_url) a.setAttribute('target','_blank') a.appendChild(li);
newslist.appendChild(a);

}

}


$("#searchButton").click(function () { search_val = $("#searchBox").val(); var queryString = { q:
  search_val };

$.ajax({

method: "POST", url: "/search",
```

```
contentType: "application/json;charset=utf-8", cache: false,

datatype: "text",

data: JSON.stringify(queryString), success: function (data) {

// alert("yes");

wholeJson = JSON.parse(data); articles=wholeJson['articles'];

// $("#news").text(data) showNews(articles);

},

error: function (data) { alert("error");

},

});

});

});
```

home.style.css

```
@import url("https://fonts.googleapis.com/css?family=Poppins:400,500,600,700&display=swap");


* {
  margin: 0;
  box-sizing: border-box;
  padding: 0;
}
nav.navbar {
  position: sticky;
  top: 0;
  width: 100vw;
  display: grid;
  grid-template-columns: 1fr 1fr;
}
```

nav.navbar .searchContainer {

  display: inline-block;

  padding: 0.5rem;

}

nav.navbar .searchContainer input {

  padding: 0.5rem;

}

nav.navbar .searchContainer button {

  border-radius: 1.5rem;

  width: 3rem;

  height: 3rem;

  color: #000;

  background:#fff;

  cursor: pointer;

}

nav.navbar .searchContainer button:hover{

  background: -webkit-linear-gradient(right, #a445b2, #fa4299, #a445b2, #fa4299);

}

nav.navbar .userProfile .logout {

  float: right;

}

nav.navbar .userProfile .logout a {

  text-decoration: none;

}

.news #newsList {

  list-style: none;

  display: grid;

  grid-template-columns: 1fr 1fr 1fr;

}

.news #newsList a {

  border-radius: 5px;

  margin: 1vw;

  box-shadow: 0 0 15px -2px rgba(0, 0, 0, 0.2);

  text-decoration: none;

}

.news #newsList a li {

  padding: 10px 5px;

}

.news #newsList a li::-webkit-scrollbar {

}

.news #newsList a li img {

  width: 10rem;

  height: 10rem;

  display: block;

}

index.script.js

const loginText = document.querySelector(".title-text .login"); const login = document.querySelector("form.login");

const loginBtn = document.querySelector("label.login"); const signupBtn = document.querySelector("label.signup");

const signupLink = document.querySelector("form .signup-link a"); signupBtn.onclick = () => {

  login.style.marginLeft = "-50%";

};

loginBtn.onclick = () => {

  login.style.marginLeft = "0%";

};

signupLink.onclick = () => {


```
   signupBtn.click();

};


// Above code is completely for stylings


$(document).ready(function () {
  function handleError(message) {
    $("#message").addClass("errorForMessage", 500, callBack);

    $("#message").text(message);

    $("#message").animate(
        {
        height: "60px",
        padding: "10px",
        },
        500
    );
    function callBack() {
        setTimeout(function () {
        $("#message").animate(
        {
        height: "0",
        padding: "0",
        },
        500
        );


        setTimeout(function () {
        $("#message").removeClass("errorForMessage");
        }, 1500);
```

```
      }, 1500);
  }
}


function handleSuccess(message) {
  return new Promise(function (resolve, reject) {
        $("#message").addClass("successForMessage", 500, callBack);

        $("#message").text(message);

        $("#message").animate(

        {

        height: "60px",

        padding: "10px",

        },

        500

        );

        function callBack() {

        setTimeout(function () {

        $("#message").animate(

        {

        height: "0",

        padding: "0",

        },

        500

        );

        setTimeout(function () {

        $("#message").removeClass("successForMessage");

        resolve();

        }, 1500);

        }, 1500);
```

| | |
| | |

```javascript
}

function postForm(path, params, method) {
  method = method || "post";

  var form = document.createElement("form");
  form.setAttribute("method", method);
  form.setAttribute("action", path);

  for (var key in params) {
        if (params.hasOwnProperty(key)) {
        var hiddenField = document.createElement("input");
        hiddenField.setAttribute("type", "hidden");
        hiddenField.setAttribute("name", key);
        hiddenField.setAttribute("value", params[key]);

        form.appendChild(hiddenField);
        }
  }

  document.body.appendChild(form);
  form.submit();
}

$("#loginForm").submit(function (e) {
  e.preventDefault();
  email = $("#log_in_email").val();
  password = $("#log_in_password").val();
  var data = { email: email, password: password };
```

```javascript
$.ajax({
    method: "POST",
    url: "/loginvalidate",
    contentType: "application/json;charset=utf-8",
    cache: false,
    datatype: "text",
    data: JSON.stringify(data),
    success: function (data) {
    if (data == "success") {
    handleSuccess("Login Success").then(function(){
    postForm("/login",{username:username})
    });
    } else {
    handleError("Invalid credentials");
    }
    },
    error: function (data) {
    alert("error" + data);
    },
});
return false;
});


// Above code is for login
function checkForExistingUser(data) {
 return new Promise(function (resolve, reject) {
    var emailJson = { email: data };
    $.ajax({
    method: "POST",
    url: "/checkForExistingUser",
```

```javascript
        contentType: "application/json",

        cache: false,

        datatype: "text",

        async: false,

        data: JSON.stringify(emailJson),

        success: function (data_from_server) {

        if (data_from_server !== "true") {

        console.log("yes");

        resolve(data_from_server);

        } else {

        handleError("Email Id is already in use");

        reject(data_from_server);

        }

        },

        error: function (data_from_server) {

        reject(data_from_server);

        },

        });

  });

}


$.validator.addMethod(

  "validatePassword",

  function (value, element) {

        return (

        this.optional(element) ||

        /^(?=.*?[A-Z])(?=.*?[a-z])(?=.*?[0-9])(?=.*?[#?!@$%^&*-]).{8,}$/.test(

        value

        )

        );

  },
```

```javascript
    "Password must contain 1 uppercase,1 lowercase,1 number,1 special character"
);


$.validator.addMethod(
  "validatePhone",


  function (value, element) {
        return this.optional(element) || /^[6-9]\d{9}$/.test(value);
  },
  "Enter valid Phone Number"
);


$("#registerForm").validate({
  rules: {
        email: {
        required: true,
        email: true,
        },
        username: {
        required: true,
        },
        password: {
        required: true,
        validatePassword: true,
        },
        confirmPassword: {
        required: true,
        equalTo: "#password",
        },
        phoneNumber: {
```

```javascript
        required: true,

        validatePhone: true,

        },

    },

    messages: {

        email: {

        required: "Email is required",

        email: "Enter valid email",

        },

        username: {

        required: "Username is required",

        },

        password: {

        required: "Password is required",

        minlength: "Password must contains minimum 8 characters",

        },

        confirmPassword: {

        equalTo: "Password must be equal to confirm Password",

        required: "Confirm Password is required",



        },

        phoneNumber: {

        required: "Phone Number is required",

        },

    },

    submitHandler: function (form) {

        email = $("#email").val();

        checkForExistingUser(email)

        .then(function () {

        console.log("mail is available");
```

```javascript
mail = $("#email").val();

username = $("#username").val();

password = $("#password").val();

phone = $("#phoneNumber").val();

jsonObject = {

mail: mail,

username: username,

password: password,

phone: phone,

};

$.ajax({

method: "POST",

url: "/register",

contentType: "application/json",

cache: false,

datatype: "text",

async: false,

data: JSON.stringify(jsonObject),

success: function (data_from_server) {

if (data_from_server == "success") {

// console.log("yes submitted");

handleSuccess("Sign up Success!").then(function(){

window.location.href = "/";

})

} else {

handleError("Sign up Failed");

// console.log("not submitted");

}

},

error: function (data_from_server) {

console.log("not submitted");
```

```
        },
      });



      })
      .catch(function () {
      console.log("mail is already used");
      });
      return false;
    },
  });
});
```

```css
/* * {
  padding: 0;
```


```css
  box-sizing: border-box;
}
.container {
  position: absolute;
  top: 50%;
  left: 50%;
  transform: translate(-50%, -50%);
```


```css
  width: 50vw;
}
.container form input[type=text],input[type=password] {
```

```css
    margin: 5px;

    border: 1px solid #000000;

    border-radius: 50px;

} */

/*

==========================================================================

=============================== */


@import url('https://fonts.googleapis.com/css?family=Poppins:400,500,600,700&display=swap');

*{

    margin: 0;

    padding: 0;
```

| | |
| | |

```css
    box-sizing: border-box;

}

html,body{

    overflow: hidden;



    display: grid;

    height: 100%;

    width: 100%;
```

| | |
| | |

```css
    place-items: center;

}

::selection{
```

| | |
| | |

```css
    background: #fa4242;

}

.wrapper{
```

```css
  /* float: right; */

  overflow: hidden;

  max-width: 390px;

  background: #fff;

  padding: 10px;

  border-radius: 15px;

  box-shadow: 0px 15px 20px rgba(0,0,0,0.1);
}
.wrapper .title-text{

  display: flex;
}
.wrapper .title{

  width: 50%;

  font-size: 35px;

  font-weight: 600;

  text-align: center;
}
.wrapper .slide-controls{

  position: relative;

  display: flex;

  height: 50px;

  width: 100%;

  overflow: hidden;

  margin: 30px 0 10px 0;

  justify-content: space-between;
```

```css
  border: 1px solid lightgrey;
}
.slide-controls .slide{


  height: 100%;
  width: 100%;
  color: #fff;
  font-size: 18px;
  font-weight: 500;
  text-align: center;
  line-height: 48px;
  cursor: pointer;
```

| | |
| | |

```css
  z-index: 1;
}
```

| | |
| | |

```css
.slide-controls label.signup{
}
.slide-controls .slider-tab{
  position: absolute;
  height: 100%;
  width: 50%;
  left: 0;
  z-index: 0;
  border-radius: 5px;
```

| | |
| | |

```css
  background: -webkit-linear-gradient(left, #a445b2, #fa4299);
}
```

| | |

```css
input[type="radio"]{

}

#signup:checked ~ .slider-tab{

}
#signup:checked ~ label.signup{

  color: #fff;

  cursor: default;

}

#signup:checked ~ label.login{

}

#login:checked ~ label.signup{

}
#login:checked ~ label.login{

  cursor: default;

}
.wrapper .form-container{

  width: 100%;

}
.form-container .form-inner{

```


    display: flex;

}

.form-container .form-inner form{

    width: 50%;

}

.form-inner form .field{

    height: 50px;

    width: 100%;

}

.form-inner form .field input{

    height: 100%;

    width: 100%;

    outline: none;

    padding-left: 15px;

    border-radius: 5px;

    border: 1px solid lightgrey;

    border-bottom-width: 2px;

    font-size: 17px;

}

.form-inner form .field input:focus{

    border-color: #fc83bb;

}

.form-inner form .field input::placeholder{

  color: #999;

}

form .field input:focus::placeholder{

}

.form-inner form .pass-link{

  margin-top: 5px;

}

.form-inner form .signup-link{

  text-align: center;

}

.form-inner form .pass-link a,

.form-inner form .signup-link a{

  color: #fa4299;

}

.form-inner form .pass-link a:hover,

.form-inner form .signup-link a:hover{

}

form .btn{

  height: 50px;

  width: 100%;

  border-radius: 5px;

```css
}
form .btn .btn-layer{

  height: 100%;

  width: 300%;

  position: absolute;

  left: -100%;

  background: -webkit-linear-gradient(right, #a445b2, #fa4299, #a445b2, #fa4299);
```

| | |
| | |

```css
  border-radius: 5px;

}
```

| | |
| | |

```css
form .btn:hover .btn-layer{

}
form .btn input[type="submit"]{

  height: 100%;

  width: 100%;

  z-index: 1;

  position: relative;

  background: none;

  border: none;

  color: #fff;

  padding-left: 0;

  border-radius: 5px;



  font-size: 20px;
```

| | |
| | |

```css
  font-weight: 500;

}
```

```
#message{

  visibility: hidden;

  padding: 10px;

  position:absolute;

  top: 80%;

  height: 0;

  left:40%;

  font-size: 4vh;
```

| | |
| | |

```
  overflow: hidden;

}


.errorForMessage{

  visibility: visible !important;
```

| | |
| | |

```
  background-color:rgb(200, 0, 0,.5);

}


.successForMessage{

  visibility: visible !important;
```

| | |
| | |

```
  background-color:rgb(46, 226, 46);

}
```

templates

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>Document</title>
    <script
        src="https://code.jquery.com/jquery-3.6.1.js"
        integrity="sha256-3zlB5s2uwoUzrXK3BT7AX3FyvojsraNFxCc2vC/7pNI="
        crossorigin="anonymous"
    ></script>
    <link
        rel="stylesheet"
        href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css"
    />
    <link rel="stylesheet"
    href="{{url_for('static',filename='home.style.css')}}"
  </head>
  <body>
    <nav class="navbar">
        <div class="searchContainer">
        <input
        type="text"
        name="searchBox"
        id="searchBox"
        placeholder="search"
        />
        <button id="searchButton">
```

```html
          <i class="fa fa-search" aria-hidden="true"></i>

        </button>

      </div>

      <div class="userProfile">

      <div class="logout">

      <a href="{{url_for('logout')}}" target="" rel="">Logout</a>

      </div>

      </div>



    </nav>

    <div class="news">

        <ul id="newsList"></ul>

    </div>

    <script src="{{url_for('static',filename='ajaxRequests.js')}}"></script>

  </body>

</html>


{#


<h1>hi u have succefully logged in</h1>

<a href="{{url_for('logout')}}">Logout</a>

<input type="text" placeholder="search" id="search" />

<script

  src="https://code.jquery.com/jquery-3.6.1.js"

  integrity="sha256-3zlB5s2uwoUzrXK3BT7AX3FyvojsraNFxCc2vC/7pNI="

  crossorigin="anonymous"

></script>

<input type="button" value="get news !" id="getNews" />

<ul id="newslist"></ul>

<script src="{{url_for('static',filename='ajaxRequests.js')}}"></script> #}
```

```
<html lang="en" dir="ltr">
 <head>
  <meta charset="utf-8" />
  <title>Login and Registration in HTML | CodingNepal</title>
  <link rel="stylesheet" href="../static/index.style.css" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
 </head>
 <body>
  <div class="wrapper">
       <div class="title-text">
       <div class="title login">Login</div>
       <div class="title signup">Signup</div>
       </div>
       <input type="radio" name="slide" id="login" checked />


       <input type="radio" name="slide" id="signup" />
       <label for="login" class="slide login">Login</label>
       <label for="signup" class="slide signup">Signup</label>
       <div class="slider-tab"></div>
       </div>
       <div class="form-inner">
       <form action="" class="login" id="loginForm">
       <div class="field">
       <input
       type="text"
```

```
        id="log_in_email"

        placeholder="Email"

        required

        />

        </div>

        <div class="field">

        <input

        type="password"

        id="log_in_password"

        placeholder="Password"

        required

        />

        </div>

        <div class="pass-link">

        <a href="#">Forgot password?</a>

        </div>

        <div class="field btn">

        <div class="btn-layer"></div>

        <input type="submit" value="login" id="loginbutton" />

        </div>


        <div class="signup-link">

        Not a member? <a href="">Signup now</a>

        </div>

        </form>

        <form action="" class="signup" id="registerForm">

        <div class="field">

        <input type="email" placeholder="Email Address" required id="email" name="email"
value=""/>

        </div>

        <div class="field">
```

```html
<input type="text" placeholder="Username" required id="username" name="username"
value=""/>




</div>
<div class="field">
<input type="password" placeholder="Password" required id="password" name="password"
value=""/>
</div>
<div class="field">
<input type="password" placeholder="Confirm password" required id="confirmPassword"
name="confirmPassword" value=""/>
</div>
<div class="field">
<input type="number" placeholder="Phone Number" required id="phoneNumber"
name="phoneNumber" value=""/>
</div>
<div class="field btn">
<div class="btn-layer"></div>
<input type="submit" value="Signup" id="registerButton" />
</div>
</form>
</div>
</div>
</div>
<span style="" id="message" class=""><p id="message_p"></p></span>
<link rel="stylesheet" href="//code.jquery.com/ui/1.13.2/themes/base/jquery-ui.css">
<script src="https://code.jquery.com/jquery-3.6.1.js" integrity="sha256-
3zlB5s2uwoUzrXK3BT7AX3FyvojsraNFxCc2vC/7pNI=" crossorigin="anonymous"></script>
<script src="https://code.jquery.com/ui/1.13.2/jquery-ui.js"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery-validate/1.19.0/jquery.validate.min.js">
</script>
```

```html
    <script src="{{url_for('static',filename='index.script.js')}}"></script>
  </body>
</html>
```

app.py

```python
from flask import Flask, render_template, session, request, redirect,make_response import ibm_db

from ibm_db2_connect import db2 import news

import json

app = Flask(_name_) app.secret_key = "secret_key"




@app.route('/', methods=['GET', 'POST']) def index():

if session.get('logged_in'):

    return render_template('home.html') return render_template('index.html')




@app.route('/login',methods=['POST']) def login():

form_user = request.form['username'] session['logged_in']=form_user return redirect('/')


@app.route('/loginvalidate',methods=['POST','GET']) def loginvalidate():

conn = db2.get_conn() data=request.get_json(); form_user = data['email'] form_password = data['password']

sql = 'SELECT username from user WHERE mail=? and password=?' stmt = ibm_db.prepare(conn, sql)

ibm_db.bind_param(stmt, 1, form_user)
```

```python
        ibm_db.bind_param(stmt, 2, form_password) ibm_db.execute(stmt)

        account = ibm_db.fetch_assoc(stmt) if account:

            response = make_response('success',200) else:

            response = make_response('failure',200) response.mimetype = "text/plain"

        return response



@app.route('/register',methods=['POST']) def register():

    try:

        conn = db2.get_conn() data=request.get_json(); form_user = data['username'] form_password =
        data['password'] form_mail = data['mail'] form_phone = data['phone']

        sql = 'insert into user values(?,?,?,?)' stmt = ibm_db.prepare(conn, sql) ibm_db.bind_param(stmt, 1,
        form_user)

        ibm_db.bind_param(stmt, 2, form_password)
        ibm_db.bind_param(stmt, 3, form_mail)
        ibm_db.bind_param(stmt, 4, form_phone) ibm_db.execute(stmt)

            response = make_response('success',200) except Exception as e:

        response = make_response('failure',200) print(e)

    return response



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



def checkForExistingUser(): conn = db2.get_conn() data=request.get_json(); email=data['email'];
    print(email)
```

```python
sql = 'SELECT mail from user WHERE mail=?' stmt = ibm_db.prepare(conn, sql)

ibm_db.bind_param(stmt, 1, email) ibm_db.execute(stmt)

account = ibm_db.fetch_assoc(stmt) print(account)

if account:

    response = make_response('true',200) else:

    response = make_response('false',200) response.mimetype = "text/plain"

return response




@app.route('/search',methods=['POST']) def getNews():

getRequests=request.get_json() articles=news.getNews(getRequests) # print(json.dumps(articles))

response = make_response(json.dumps(articles),200) response.mimetype="text"

return response




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

session.clear()

return render_template('index.html')




if_name          == '_main_': app.run(debug=True, port=5002)
```

config.py

DATABASE="<ypur db>" HOSTNAME="<your hostname>" PORT="<your port>" SECURITY="SSL"

SSLServerCertificate="<your certificate>" UID="<your UID>"

PWD="<your PASSWORD>"
API_KEY="<your API key>"

ibm_db2_connect.py

```python
import ibm_db import config as c class db2:

connectionString="DATABASE={0};HOSTNAME={1};PORT={2};SECURITY={3};SSLServerCertificate={4};UID={5};PWD={6}".format(c.DATABASE,c.HOSTNAME,c.PORT,c.SECURITY,c.SSLServerCertificate,c.UID,c.PWD)
    conn = ibm_db.connect(connectionString,",")
    def get_conn():
        return db2.conn
```

news.py

```python
import requests
from config import API_KEY
```

```python
def getNews(query:dict):
    query_string="q="+query.get('q')



    main_url="https://newsapi.org/v2/top-headlines?"
    final_url="{0}{1}&apiKey={2}".format(main_url,query_string,API_KEY)
    article=requests.get(final_url)
    return article.json()
```

GITHUB LINK

https://github.com/IBM-EPBL/IBM-Project-20382-1659718353