NEWS TRACKER APPLICATION IN CLOUD DEPLOYMENT

A PROJECT REPORT

Submitted by

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1.INTRODUCTION

1.1 PROJECT OVERVIEW

Internet users are turning more frequently to online news as a replacement for traditional media sources such as newspapers or television shows. Still, discovering news events online and following them as they develop can be a difficult task owned by others than. news that is supported by multiple online providers, and the online selection of the best sentences according to a specifically tailored relevance model over recently seen information, that allows the retrieval of unanticipated information by adapting to information recently seen instead of requiring an a-priori model of events of interest, and requires no manual intervention and contains a small number of parameters that can be tuned in straightforward Summarization test set.

News and communications produces and managers:

- Media realtions,media training,media tracking
- Video
- Web communications
- Social media
- Publications
- Communication planning
- Internal communication

1.2 PURPOSE

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

Some of these concepts can we hard to distinguish in a piece of interactive software,but they're there if you look closely.

A news app should be generative meaning it should generate more stories and more reporting.

2.LITERATURE SURVAY

2.1 EXISTING PROBLEM

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 notifcations, cancellation of posts, updating posts,commands section etc in this system. Online news management system provides a simple interface for maintenance of college information.The creation management of accurate, up-to-date information regarding to college, This project can easily be configured on windows operating system for running this project on windows systems, you will have to install app on your system.

As news is increasingly accessed on smartphones and tablets, the need for personalising news app interactions is apparent. We report a series of three studies addressing key issues in the development of adaptive news app interfaces. We first surveyed users' news reading preferences and behaviours;analysis revealed three primary types of reader. We then implemented and deployed an Android news app that logs users' interactions with the app. We used the logs to train a classifier and showed that it is able to reliably recognise a user according to their reader type. Finally we evaluated alternative, adaptive user interfaces for each reader type. The evaluation demonstrates the differential benefit of the adaptation for different users of the news app and the feasibility of adaptive interfaces for news apps.

2.2 REFERENCES

[1] G. Acar, C.Eubank, S.Englehardt, M.Juaerez, A. Narayanan, and C. Diaz, "The Web Never Forgets: Persistent Tracking Mechanisms in the Wild", 21st CCS (2014), Scottsdale, USA, ACM, pp. 674-689

[2] G. Acar, M. Juarez, N. Nikiforakis, C. Diaz, S.Gürses, F. Piessens, and B. Preneel, "FPDetective: Dusting the Web for Fingerprinters", 20th CCS (2013), Berlin, Germany, ACM, pp. 1129-1140**.**

[3] L. Agarwal, N. Shrivastava, S. Jaiswal, and S. Panjwani, "Do Not Embarrass: Re-Examining User Concerns for Online Tracking and Advertising", 9th Symp. on Usable Privacy and Security (2013), Newcastle, UK, pp. 8:1-8:13.

[4] F. Besson, N. Bielova, and T. Jensen, "Hybrid Information Flow Monitoring Against Web Tracking", 26th Computer Security Foundations Symp. (2014), New Orleans, USA, IEEE Computer Society, pp. 240-254

[5] F. Brecht, B. Fabian, S. Kunz, and S. Müller, "Are You Willing to Wait Longer for Internet Privacy?", ECIS (2011), Helsinki, Finland.

2.3 PROBLEM STATEMENT DEFINITION

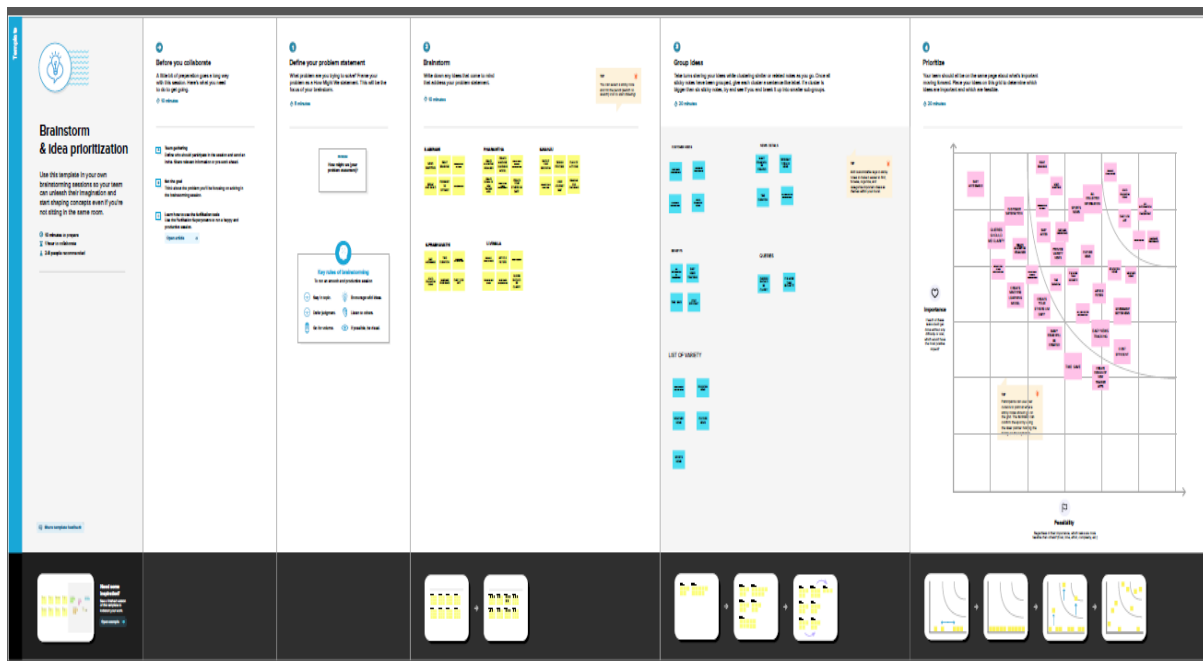| I am	I'm trying to	But	Because	Which makes me feel
News Reader	I track the current news	Network issue and hanging problem	Weather and storage problem	Frustrated

3. IDEATION & PROPOSED SOLUTION

3.1 EMPATHY MAP CANVAS

3.2 IDEATION &BRAINSTROMING

3.3 PROPOSED SOLUTION

S.NO	PARAMETER	DESCRIPTION
1.	Problem Statement (Problem to be solved)	As our lives are very busy these days,we often Feel we need more than 24 hrs. Well, that's not possible but reducing the time by changing the conventional method of raeding news can help. Just tell us what marjet news you're interested in and get a quick peek for the day.Only read what you feel s relevant and save your time. We have access all kind of pending news.
2.	Idea/Solution Description	We provide news in a form Of reading and video or audio types. Distribute the news everywhere, and based on the location we access the particular news.

3.	Novelty / Uniqueness	It is an cloud based Web Application. It provides news based on the user interested areas and user requested. location. anywhere ,anytime to access cloud based app.
4.	Social Impact / Customer Satisfaction	Day to day information and technologies are increased. Like that, Customers also expecting This application is used to reduce the time of the people those who are reading the newspapers and also other web applications.
5.	Business Model (Revenue Model)	This is an independent Platform to all the users like non-profit newsroom that produces investigative journalism with moral force. With a team of more than 100 dedicated journalists,public covers a range of topics

		including business, criminal justice, the environment and technology.
6.	Scalability of the Solution	This application reduce the time of People by news are converted from reading to hearing format. It highlights the user interested news in top of the web application.

3.4 PROBLEM SOLUTION FIT

Define CS, fit into CC

1. CUSTOMER SEGMENT

In research, education purpose, commercial purpose, and socially purpose

6. CUSTOMER CONSTRAINTS

As much as service providers need to cater to the needs of their customers, it is just as important for them to satisfy their customers.

5. AVAILABLE SOLUTIONS

Customer can receive the information through internet and updates.
User interest news are list out top of the list.

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

2. PROBLEMS

The user can easily read thenewsin a single click and it's gives news as audio format .The user can receive messages based on their location.

9. PROBLEM ROOT CAUSE

Lot of time is wasting in reading news and some people does not know how to read in such cases they refuse the newspapers.

7. BEHAVIOUR

User experience, content performance , Perfect user interface , popularity sharing the news , conversion are optimization , checkout process website accessibility .

Focus on J&P, tap into BE, understand RC

Identify strong TR & EM

3.ITRIGGERS

This software is used instead of using news and pictures. This software like as a journalism. .It access the user location and give the related news.

4.EMOTIONS

Satisfaction ,sometimes anger and both positive and negative responses while designing the application.

10.YOUR SOLUTION

From this application, user get better UI experience, Using certain algorithms to popup the user interest areas.

8.CHANNELS BEHAVIOUR

8.1. Online

This web application basically depends upon the internet connectivity, because we use the API and database connections through internet or online mode.

8.2. Offline

This is not applicable for offline, but also we can save the clips and read in offline mode.

Identify strong TR & EM

4.REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENT

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Installation	User install the app from Google play store or from the browser .
FR-2	User Registration	Registration through Gmail
FR-3	User Confirmation	Confirmation via Email and OTP
FR-4	User Login	User login the app with the user's name and password

4.2 NON-FUNCTIONAL REQUIREMENT

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Everyone access the app easily used the app.
NFR-2	Security	It is secured app. Sometimes fake news can be shared.
NFR-3	Performance	This app Performed successfully
NFR-4	Availability	More list of news and categories are available

# 5.PROJECT DESIGN

5.1 DATA FLOW DIAGRAMS
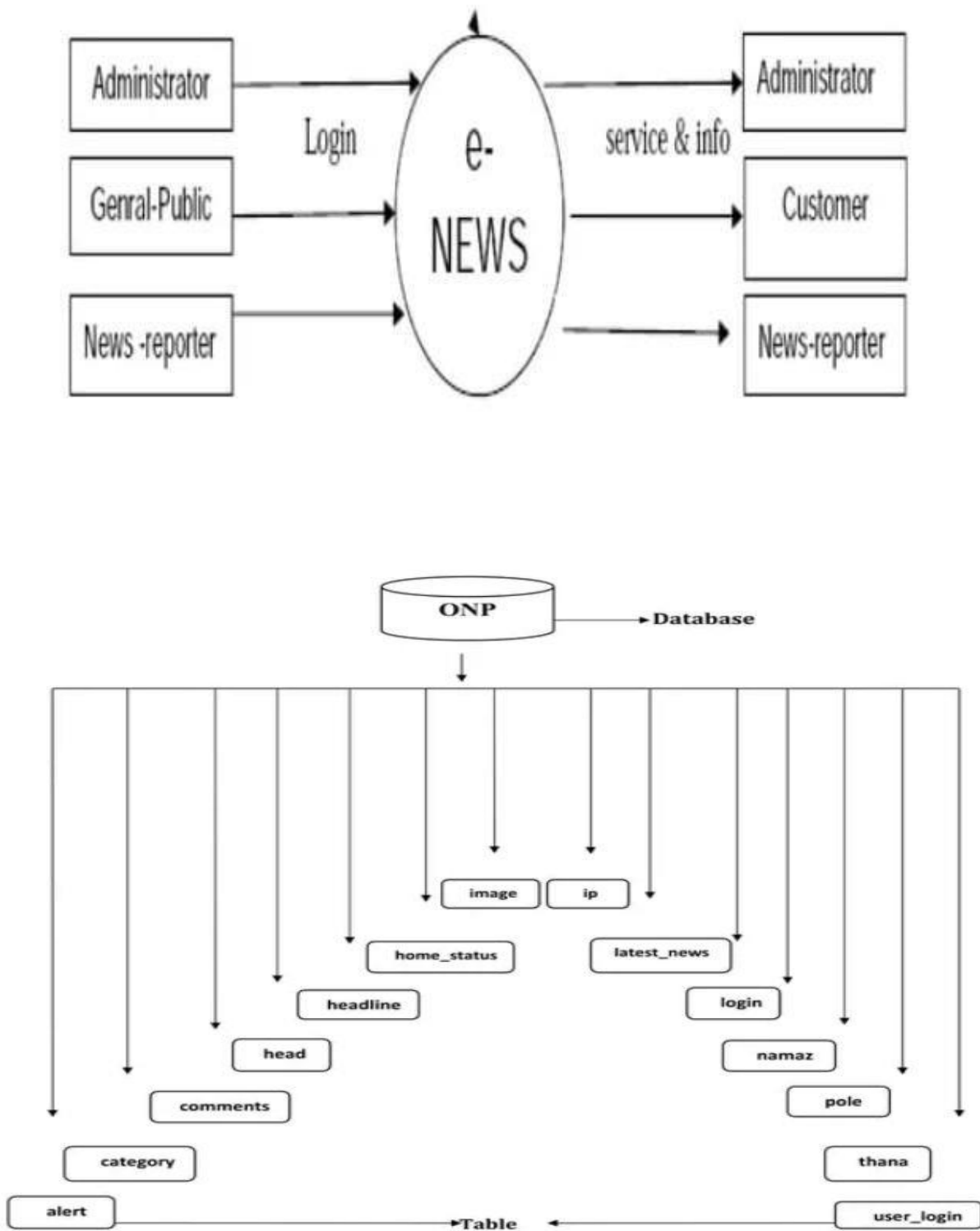
| User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Installation	USN-1	As a user, I installed the app for day-to-day	My app will be installed		Sprint-1
		USN-2	As a user, I can register for the application by entering my email, password, and user name.	I can access my account / dashboard	High	Sprint-1
		USN-3	As a user, I will receive conformation email once I have registered.		Medium	Sprint-1
		USN-4	As a user, I can register for Gmail		High	Sprint-1
	Login	USN-5	As a user, I can login the application by enter email & password		High	Sprint-1
	Dashboard	USN-6	Day to day news, categories, technology, political,sports news and other updates.		High	Sprint-1

Customer (Web user)	Websites	USN-7	Enter the web site on the websites		Medium	Sprint-1

5.2 SOLUTION & TECHNICAL ARCHITECTURE

Solution Architecture Diagram
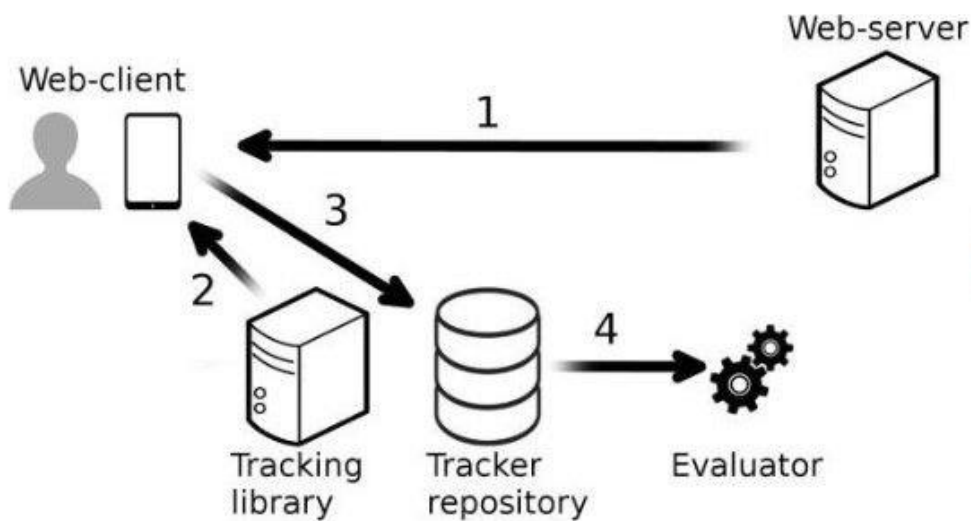
Technical Architecture:
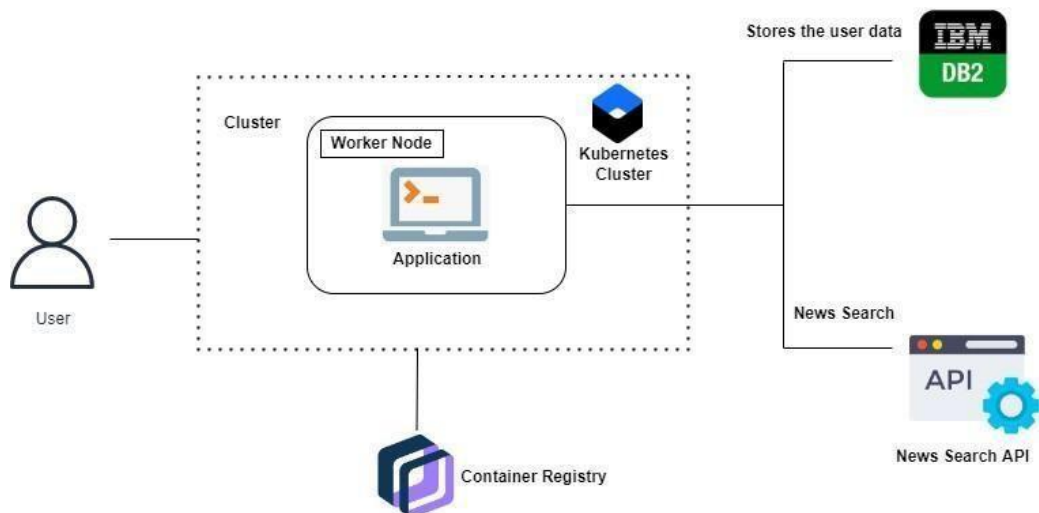
S.No	Component	Description	Technology
1.	User Interface	The user can interact with the application the trending news.	HTML, CSS, JavaScript, SQL,etc.
2.	Application Logic-1	The application contains the flask.	Flask.
3.	Application Logic-2	The application contains the news sub-division like education , sports,agriculture news and social news.	IBM Watson service
4.	Application Logic-3	The user using the industry growth.	IBM Watson Assistant
5.	Database	Updating of trending news.	MySQL
6.	Cloud Database	The cloud used, media coverage issue cannot be occurred.	IBM DB2.

Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask is flexible of application.	Python-Flask
2.	Security Implementations	This can be access only by the media person. So,it is a high Security.	Container registry, Kubernetes Cluster.
3.	Scalable Architecture	This using social access because helped to use daily activity of the world.	Container registry, Kubernetes Cluster.
4.	Availability	This application available for all time.	Container registry, Kubernetes Cluster.
5.	Performance	The updates and performance is good.	Container registry, Kubernetes Cluster.

5.3 USER STORIES

Phases High-level steps your user needs to accomplish from start to finish	Purchasing a device			Downloading the application			Create an account			Choosing the necessary information		
Steps Detailed actions your user has to perform	Make sure we have the required money	Android or IOS	Payment	Good internet service	Gmail account	storage in the device	Login account	Mail ID	sign-in pages	select Language	Area of interest	International or local
Feelings 👍 What your user might be thinking and feeling at the moment		Excited to have a device			Eager how well this works			create account successfully			learning and Reading based interested	
👎		Is the device affordable?			What if the space and data is insufficient		Sometimes information not secured?			Unwanted message and notifications		
Pain points Problems your user runs into		Is the device affordable?			What if the data and space is efficient			sometimes information be secured?			Unwanted message and notifications	
Opportunities Potential improvements or enhancements to the experience		Track the all kind of news in the devices			Delete unwanted files			Using privacy and policy			Follow only the required information	

6. PROJECT PLANNING &SCHEDULING

6.1 SPRINT PLANNING &ESTIMATION

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	Creating Login page Creating Registration page	10	High	E.Abirami,P.Narmatha
Sprint-1	Database Connectivity	USN-2	To Store details of the customer Connecting UI with Database	10	Medium	S.Prabhavathi, U.Vimala
Sprint-2	News Tracker UI	USN-3	Building UI News Tracker Application	10	High	S.Manju, P.Narmatha
Sprint-2	API	USN-4	Connecting UI with News API, Google News API	10	High	E.Abirami
Sprint-3	SendGrid Integration	USN-5	SendGrid Integration With Python Code	10	Low	P.Narmatha
Sprint-3	News Reader (Voice)	USN-6	Building Voice Assistant to read the news	10	Medium	S.Prabhavathi
Sprint-4	Containerization	USN-7	Containerizing the app	10	High	S.Manju, U.Vimala
Sprint -4	Upload image and deployment	USN-8	Upload Docker image to the IBM Registry and deploy it in the Kubernetes Cluster	10	High	E.Abirami, s.Manju

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	30 Oct 2022	20	24 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	31 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	10 Nov 2022	20	10 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	15 Nov 2022	20	15 Nov 2022

6.3 REPORT FROM JIRA

7. CODING &SOLUTION

7.1 FEATURE 1

SPRINT-1

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>
   <link rel="Stylesheet" href="login.css">
</head>
<body>

        <section class="login">
      <div class="signup">
               <form action="">
         <h5>Click here to create a new Account</h5>
         <button formaction="../index.html">SignUp</button>
               </form>
               </div>
               <div class="login_box">
                       <div class="left">
                               <div class="top_link"><a
href="#"><img
src="https://drive.google.com/u/0/uc?id=16U__U5dJdaTfNGob
B_OpwAJ73vM50rPV&export=download" alt="">Return
home</a></div>
                               <div class="contact">
                                       <form action="">
                                               <h3>SIGN IN</h3>
```

```html
                                              <input type="text"
placeholder="USERNAME">
                                              <input
type="password" placeholder="PASSWORD">
                                              <button
class="submit" formaction="./news.html">LET'S GO</button>
                                        </form>
                                </div>
                        </div>
                        <div class="right">
                                <div class="right-text">
                                        <h2>News Tracker</h2>
                                        <h5>Login to know about
what is happening??</h5>
                                </div>

                </div>
        </section>
</body>
</html>

Login.css
img{
        width: 100%;
}
.login {
    height: 1000px;
    width: 100%;
    background: radial-gradient(#653d84, #332042);
    position: relative;
}
.login_box {
    width: 1050px;
    height: 600px;
    position: absolute;
    top: 50%;
    left: 50%;
```

```css
    transform: translate(-50%,-50%);
    background: #fff;
    border-radius: 10px;
    box-shadow: 1px 4px 22px -8px #0004;
    display: flex;
    overflow: hidden;
}
.login_box .left{
 width: 41%;
 height: 100%;
 padding: 25px 25px;


}
.login_box .right{
 width: 59%;
 height: 100%
}
.left .top_link a {
   color: #452A5A;
   font-weight: 400;
}
.left .top_link{
 height: 20px
}
.left .contact{
        display: flex;
   align-items: center;
   justify-content: center;
   align-self: center;
   height: 100%;
   width: 73%;
   margin: auto;
}
.left h3{
 text-align: center;
 margin-bottom: 40px;
}
```

```css
.left input {
    border: none;
    width: 80%;
    margin: 15px 0px;
    border-bottom: 1px solid #4f30677d;
    padding: 7px 9px;
    width: 100%;
    overflow: hidden;
    background: transparent;
    font-weight: 600;
    font-size: 14px;
}
.left{
        background: linear-gradient(-45deg, #dcd7e0, #fff);
}
.submit {
    border: none;
    padding: 15px 70px;
    border-radius: 8px;
    display: block;
    margin: auto;
    cursor: pointer;
    margin-top: 120px;
    background: #583672;
    color: #fff;
    font-weight: bold;
    -webkit-box-shadow: 0px 9px 15px -11px rgba(88,54,114,1);
    -moz-box-shadow: 0px 9px 15px -11px rgba(88,54,114,1);
    box-shadow: 0px 9px 15px -11px rgba(88,54,114,1);
}


.right {
        background: linear-gradient(212.38deg, rgba(242, 57,
127, 0.7) 0%, rgba(175, 70, 189, 0.71)
100%),url(https://www.pewresearch.org/wp-
```

```css
content/uploads/sites/8/2016/07/PJ_2016.07.07_Modern-News-
Consumer_0-01.png) no-repeat;
  background-size: cover;
  color: #fff;
      position: relative;
}

.right .right-text{
 height: 100%;
 position: relative;
 transform: translate(0%, 45%);
}
.right-text h2{
 display: block;
 width: 100%;
 text-align: center;
 font-size: 50px;
 font-weight: 500;
}
.right-text h5{
 display: block;
 width: 100%;
 text-align: center;
 font-size: 19px;
 font-weight: 400;
}

.right .right-inductor{
 position: absolute;
 width: 70px;
 height: 7px;
 background: #fff0;
 left: 50%;
 bottom: 70px;
 transform: translate(-50%, 0%);
}
.top_link img {
```

```css
      width: 28px;
      padding-right: 7px;
      margin-top: -3px;
}
.signup{
      display: flex;
      float: right;
      flex-direction: column;
      margin: 10px 10px 0px 15px;
}
.signup > form > button{
      border: none;
      padding: 15px 70px;
      border-radius: 8px;
      display: block;
      margin-top: 15px;
      float: right;
      background: #11daae;
      cursor: pointer;
      color: #fff;
      font-weight: bold;
      -webkit-box-shadow: 0px 9px 15px -11px rgba(242, 57, 127,
0.7);
      -moz-box-shadow: 0px 9px 15px -11px rgba(175, 70, 189,
0.71);
      box-shadow: 0px 9px 15px -11px rgba(242, 57, 127, 0.7);
}
.signup > form > h5{
      font-weight: bold;
      float: left;
      color: white;
      margin-right: 15px;
}
```

Style.css

```css
@import
url("https://fonts.googleapis.com/css2?family=Roboto&display=
swap");
* {
  box-sizing: border-box;
}
body {
  display: absolute;
  justify-content: center;
  align-items: center;
  margin: 0;
  background-color: #f7f8fc;
  font-family: "Roboto", sans-serif;
  color: #10182f;
}
.logo{
    display: flex;
    float: left;
}
nav{
    display: flex;
    align-items: center;
    justify-content: space-between;
}
ul{
    display: flex;
}
li{
    list-style: none;
    margin: 1rem;
    margin-right: 25px;
    margin-left: 25px ;
}

a{
    text-decoration: none;
    color: rgb(49, 49, 47);
```

```css
        }
        a:hover {
                text-decoration: none;
                color: #daa800;
                opacity: 0.8;
                transition: 1s;
        }
        .container {
          display: flex;
          width: 1040px;
          justify-content: space-evenly;
          flex-wrap: wrap;
        }
        .card {
          margin: 10px;
          background-color: #fff;
          border-radius: 10px;
          box-shadow: 0 2px 20px rgba(0, 0, 0, 0.2);
          overflow: hidden;
          width: 300px;
          height: 460px;
        }
        .card-header img {
          width: 100%;
          height: 200px;
          object-fit: cover;
        }
        .card-body {
          display: flex;
          flex-direction: column;
          justify-content: center;
          align-items: flex-start;
          padding: 20px;
          min-height: 250px;
        }

        .tag {
```

```css
  background: #cccccc;
  border-radius: 50px;
  font-size: 12px;
  margin: 0;
  color: #fff;
  padding: 2px 10px;
  text-transform: uppercase;
  cursor: pointer;
}
.tag-teal {
  background-color: #47bcd4;
}
.tag-purple {
  background-color: #5e76bf;
}
.tag-pink {
  background-color: #cd5b9f;
}
.tag-cyan{
  background-color: #62e2f3;
}
.tag-aas{
  background-color: #838485;
}

.card-body p {
  font-size: 13px;
  margin: 0 0 40px;
}
.user {
  display: flex;
  margin-top: auto;
  margin-right: 20px;
  margin-top: 5px;
}

.user img {
```

```css
  border-radius: 50%;
  width: 40px;
  height: 40px;
  margin-right: 10px;
}
.user-info h5 {
  margin: 0;
  margin-top: 5px;
}
.user-info small {
  color: black;
}
```
News.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>
    <link rel="Stylesheet" href="login.css">
</head>
<body>

        <section class="login">
      <div class="signup">
                <form action="">
        <h5>Click here to create a new Account</h5>
        <button formaction="../index.html">SignUp</button>
                </form>
                </div>
                <div class="login_box">
                        <div class="left">
                                <div class="top_link"><a
href="#"><img
src="https://drive.google.com/u/0/uc?id=16U__U5dJdaTfNGob
```

```html
B_OpwAJ73vM50rPV&export=download" alt="">Return
home</a></div>
                            <div class="contact">
                                    <form action="">
                                            <h3>SIGN IN</h3>
                                            <input type="text"
placeholder="USERNAME">
                                            <input
type="password" placeholder="PASSWORD">
                                            <button
class="submit" formaction="./news.html">LET'S GO</button>
                                    </form>
                            </div>
                    </div>
                    <div class="right">
                            <div class="right-text">
                                    <h2>News Tracker</h2>
                                    <h5>Login to know about
what is happening??</h5>
                            </div>

                    </div>
        </section>
</body>
</html>
```
Index.html
```css
@import
url("https://fonts.googleapis.com/css2?family=Roboto&display=swap");
* {
 box-sizing: border-box;
}
body {
 display: absolute;
 justify-content: center;
 align-items: center;
 margin: 0;
 background-color: #f7f8fc;
 font-family: "Roboto", sans-serif;
 color: #10182f;
```

```css
}
.logo{
   display: flex;
   float: left;
}
nav{
   display: flex;
   align-items: center;
   justify-content: space-between;
}
ul{
   display: flex;
}
li{
   list-style: none;
   margin: 1rem;
   margin-right: 25px;
   margin-left: 25px ;
}

a{
   text-decoration: none;
   color: rgb(49, 49, 47);
}
a:hover {
        text-decoration: none;
        color: #daa800;
        opacity: 0.8;
        transition: 1s;
}
.container {
 display: flex;
 width: 1040px;
 justify-content: space-evenly;
 flex-wrap: wrap;
}
.card {
 margin: 10px;
 background-color: #fff;
 border-radius: 10px;
 box-shadow: 0 2px 20px rgba(0, 0, 0, 0.2);
 overflow: hidden;
 width: 300px;
```

```css
   height: 460px;
}
.card-header img {
 width: 100%;
 height: 200px;
 object-fit: cover;
}
.card-body {
 display: flex;
 flex-direction: column;
 justify-content: center;
 align-items: flex-start;
 padding: 20px;
 min-height: 250px;
}

.tag {
 background: #cccccc;
 border-radius: 50px;
 font-size: 12px;
 margin: 0;
 color: #fff;
 padding: 2px 10px;
 text-transform: uppercase;
 cursor: pointer;
}
.tag-teal {
 background-color: #47bcd4;
}
.tag-purple {
 background-color: #5e76bf;
}
.tag-pink {
 background-color: #cd5b9f;
}
.tag-cyan{
 background-color: #62e2f3;
}
.tag-aas{
 background-color: #838485;
}

.card-body p {
```

```css
  font-size: 13px;
  margin: 0 0 40px;
}
.user {
  display: flex;
  margin-top: auto;
  margin-right: 20px;
  margin-top: 5px;
}

.user img {
  border-radius: 50%;
  width: 40px;
  height: 40px;
  margin-right: 10px;
}
.user-info h5 {
  margin: 0;
  margin-top: 5px;
}
.user-info small {
  color: black;
}
```

Login page
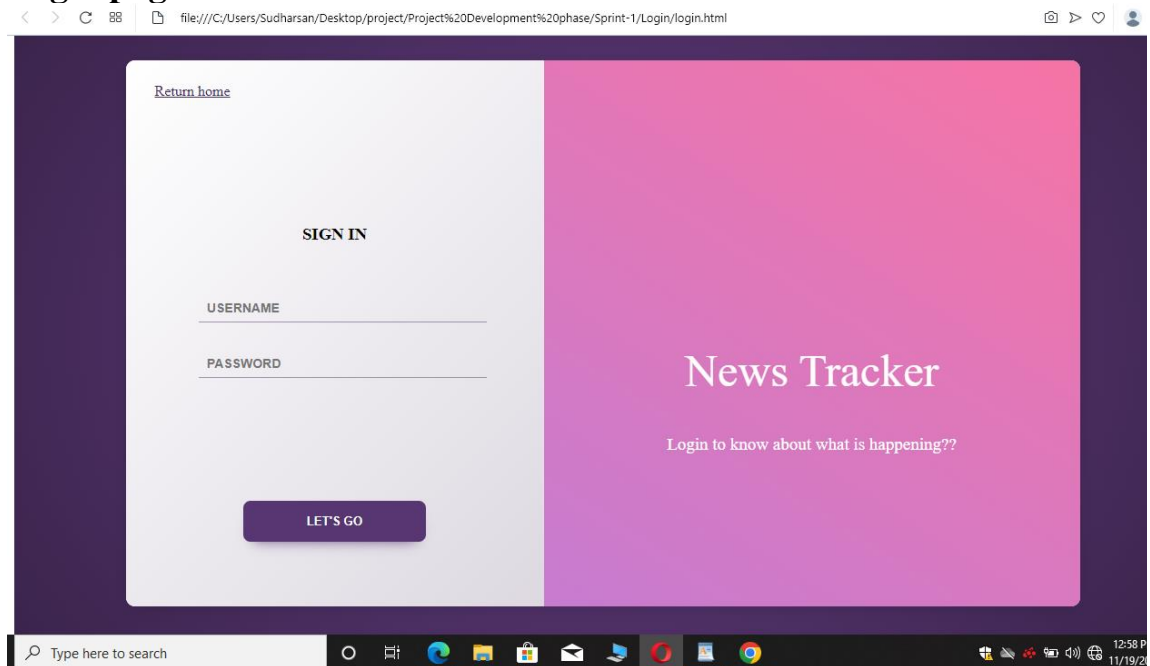
SPRINT-2

Page.html

```
<!DOCTYPE html>
<html lang="en">
<head>
        <meta charset="UTF-8">
        <script src="https://code.jquery.com/jquery-
3.2.1.slim.min.js" integrity="sha384-
KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDM
```

```
VNA/GpGFF93hXpG5KkN"
crossorigin="anonymous"></script>
        <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/pop
per.min.js" integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7f
akFPskvXusvfa0b4Q" crossorigin="anonymous"></scripT>
         <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstr
ap.min.js" integrity="sha384-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVd
AyjUar5+76PVCmYl" crossorigin="anonymous"></script>
        <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/boots
trap.min.css" integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlS
AwiGgFAW/dAiS6JXm" crossorigin="an
<title>Daily Expense</title>
   <style type="text/css">
     body{
        background-color: #EAF6F6;
     }
     form{
        margin-left: 550px;
        width: 30%;
     }
 </style>
</head>
<body>
    <nav class="h1 navbar navbar-inverse navbar-light p-3 mb-2
bg-warning text-light justify-content-between">
        <div class="container-fluid">
            <div class="navbar-header">
     <a class="navbar-brand" href="a">Personal Expense
Tracker</a>
   </div>
 <ul class="nav navbar-nav navbar-right">
```

```html
    <li><a class="navbar-brand"
href="{{url_for('login')}}"><span class="glyphicon glyphicon-
user"></span>Login</a></li>
    <li><a class="navbar-brand"
href="{{url_for('register')}}"><span class="glyphicon
glyphicon-user"></span>Register</a></li>
  </ul>
 </div>
</nav>
 <br>
   <blockquote class="blockquote text-center">
    <p class="mb-0">Fill your daily expense and minimize your
unwanted expenses.</p>
    <footer class="blockquote-footer">Save and Invest your
money to profit.<cite title="Job__Finder"></cite></footer>
   </blockquote>
   <div class="card">
     <div class="card-body">
      Welcome Dinesh.
     </div>
    </div>
  <br>
<div class="container">
   <div class="row">
     <div class="col-md-6">
        <h3>Add Expense</h3>
        <form action="/addexpense" method="POST">
 <div class="form-group">
            <label for="">Date</label>
            <input class="form-control" type="datetime-local"
name="date" id="date">
            </div>

<div class="form-group"> <label for="">Expense name</label>
            <input class="form-control" type="text"
name="expensename" id="expensename">
         </div>
```

```html
<div class="form-group">
          <label for="">Expense Amount</label>
          <input class="form-control"  type="number"
min="0" name="amount" id="amount">
     </div>
     <div class="form-group">
       <label for=""></label>
       <select class="form-control" name="paymode"
id="paymode">
          <option  selected hidden>Pay-Mode</option>
          <option name="cash"
value="cash">cash</option>
          <option name="debitcard"
value="debitcard">debitcard</option>
          <option name="creditcard"
value="creditcard">creditcard</option>
          <option name="epayment"
value="epayment">UPI</option>
          <option name="onlinebanking"
value="onlinebanking">onlinebanking</option>

       </select>

     <div class="form-group">
       <label for=""></label>
       <select class="form-control" name="category"
id="category">
           <option selected hidden>Category</option>
          <option   name = "food"
value="food">food</option>
          <option name = "entertainment"
value="entertainment">Entertainment</option>
          <option name = "business"
value="business">Business</option>
          <option name ="rent"
value="rent">Rent</option>
```

```html
                <option name = "EMI"
value="EMI">EMI</option>
                <option name = "other"
value="other">other</option>
            </select>
        </div>

  <input class="btn btn-danger" type="submit" value="Add"
id="">

        </form>
      </div>
    </div>
</div>
</body>
</html>
```
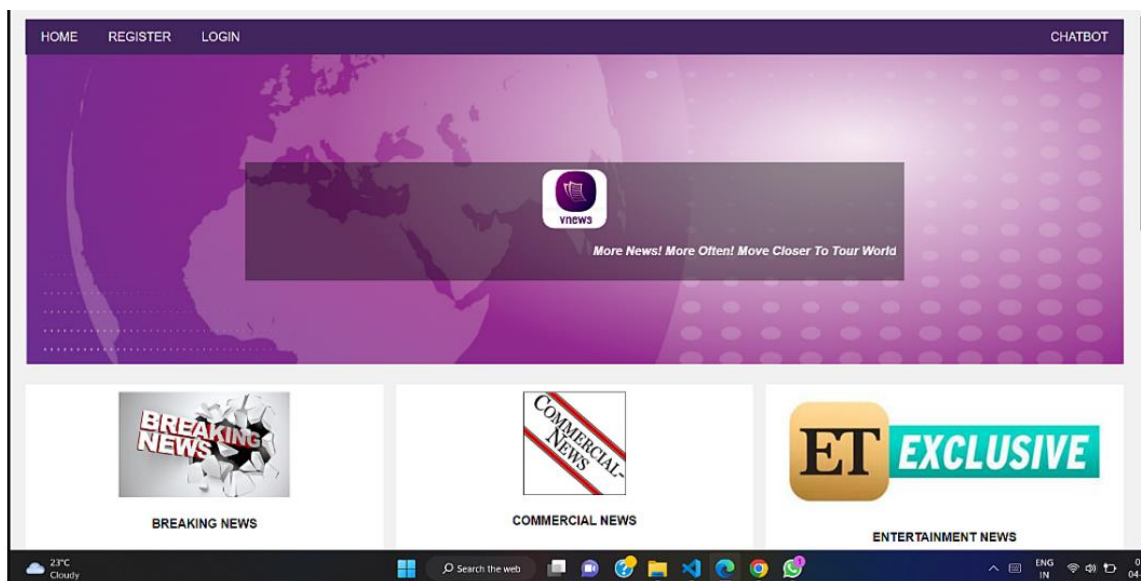

SPRINT-3

```python
# Using flask to make an api

# import necessary libraries and functions

from flask import Flask, jsonify, request

# creating a Flask app

app = Flask(__name__)
```
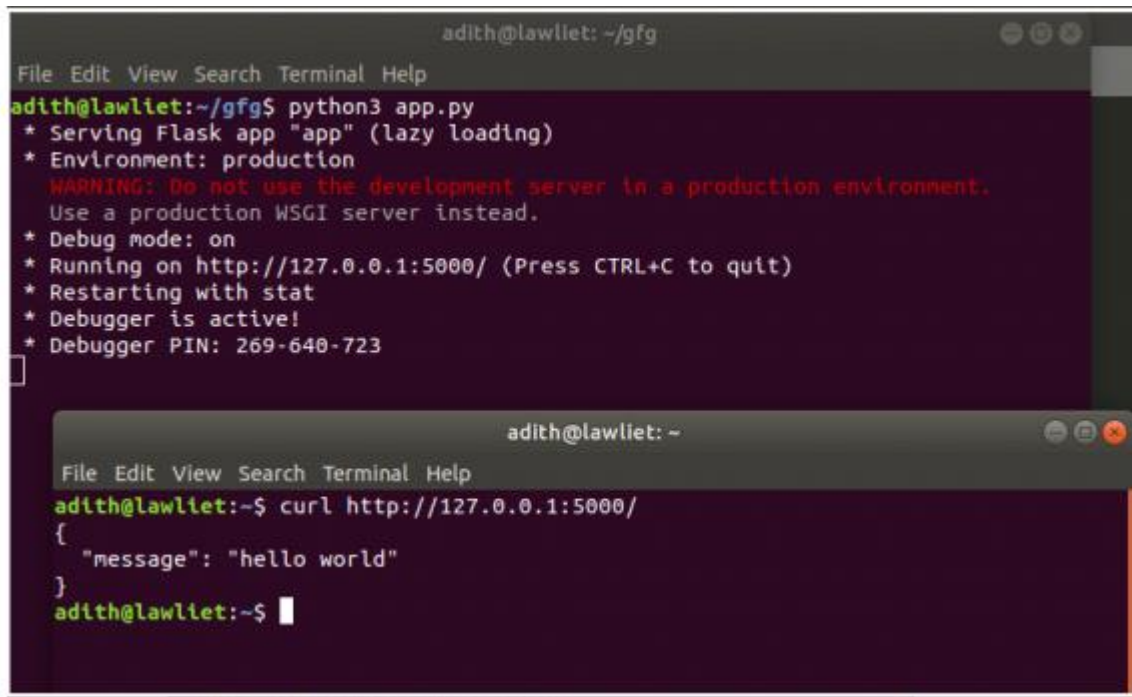
```python
# on the terminal type: curl http://127.0.0.1:5000/

# returns hello world when we use GET.

# returns the data that we send when we use POST.

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

def home():

if(request.method == 'GET'):

data = "hello world"

 return jsonify({'data': data})

# A simple function to calculate the square of a number

 # the number to be squared is sent in the URL when we use GET

 # on the terminal type: curl http://127.0.0.1:5000 / home / 10

 # this returns 100 (square of 10)

@app.route('/home/', methods = ['GET'])

def disp(num):

     return jsonify({'data': num**2})

 # driver function

 if __name__ == '__main__':

    app.run(debug = Tru# import necessary libraries and functions from
flask import Flask, jsonify, request

 # creating a Flask app

 app = Flask(__name__) # on the terminal type: curl http://127.0.0.1:5000/

# returns hello world when we use GET. # returns the data that we send
when we use POST.
```

7.2 FEATURE 2

SPRINT-4

```css
/* general foundational styles */
body {
    padding: 0;
    margin: 0;
    background: black;
    font-family: 'Abel', sans-serif !important;
}

ul {
    padding: 0;
    list-style-type: none;
    margin: auto;
}

span {
    color:whitesmoke
}

.messages {
    padding: 1rem;
    border-radius: 1rem;
    display:flex;
```

```css
      justify-content: center;
      align-items: center;
      text-align:center;
   }

   .messages .success {
      background-color: rgba(0, 225, 0, 0.1);
      font-size:2rem;
      border-radius:1rem;
      padding-right:1rem;
      padding-left:1rem;
   }
   .messages .danger {
      background-color: rgba(255, 0, 0, 0.1);
      font-size:2rem;
      border-radius:1rem;
      padding-right:1rem;
      padding-left:1rem;
   }

   .home-body {
      display: flex;
      justify-content: center;
   }

   #indentation {
      margin-bottom: 100px;
      margin-right:0px;
   }

   @media only screen and (max-width: 576px) {
      ul {
      list-style-type: none;
      }
      #stories {
      margin-left:40px;
      }
   }


   /* card styles for each news story*/
   .no-stories {
      /* padding:2rem; */
```

```css
      margin-left:2rem;
      margin-right:2rem;
      text-align:center;
      display:flex;
}

.row {
      margin: auto;
}

.container {
      background: #242424;
      border-radius: 30px;
      margin-bottom:2rem;
}

.card {
      justify-content: center;
      margin: auto;
      border-radius: 10px;
      transition-duration: 0.5s;
}
.card:hover {
      border-width: 1px;
      background: #ade7ff;
      margin: auto;
      box-shadow: 1px 1px 10px 10px #95eeee;
}

.card-body {
      background: #3d3d3d;
      border-radius: 10px;
      justify-content: center;
      transition-duration: 0.5s;
}

.card-body:hover {
      background: rgb(65, 65, 65)
}

.results {
      color:whitesmoke;
      margin:auto;
```

```css
    }

#date {
   color:gainsboro;
}

#image {
   margin-bottom: 10px;
}


/* more specific card styles to adapt to the behavior of mobile devices*/


@media only screen and (max-width: 768px) {
   #left-b{
      margin-bottom: 10px;
      order: 1;
      padding-right: 0px;
   }
   #image {
      order: 0;
      width: 100%;
   }
   #right-b{
      margin-bottom: 10px;
      order: 1;
      padding-left:0px;
   }

}
@media only screen and (max-width: 576px) {
   .container {
      justify-content: center;
   }
   #image {
      margin-top: -20px;
      order:0;
   }
   #search{
      display:none;
   }
}
```

```css
/* form styling */

h1 {
   color:whitesmoke;
   font-family: 'Times New Roman', Times, serif;
}

.form {
   color: whitesmoke;
}

.form-alert {
     margin: 20px;
}

.submit-b {
   margin-bottom:20px;
}

.demo-user {
   text-align:center;
   margin-bottom:20px;
}
#content {
   color:white;
   margin-top: 5px;
}

.headline {
   margin-top: 12px;
   color:gainsboro;
}

.headline:hover {
   text-decoration: none;
   color: #a3a3a3;
   border-radius: 40px;
}


/* navbar styles*/
```

```css
.navbar {
   background-color: black;
   color:rgb(65, 65, 65);
}

.close {
   display: inline-block;
   font-size: 30px;
   font-weight: 600;
 }

.navbar-toggler {
   margin-right:10px;
}

.nav-item {
   margin:auto;
   color: #f2f2f2;
   font-family: 'Times New Roman', Times, serif;
   padding-left: 0px;
   text-decoration: none;
   font-size: 17px;
   transition-duration: 0.25s;
   font-size:16px;
}

.nav-item:hover {
   background-color:rgb(119, 119, 119) ;
   color: black;
   text-decoration: none;
}

.navbar-nav{
   margin:0px;
}

#dropdown-item {
   display: inline;
   text-decoration: none;
   padding-right:10px;
}
```

```css
.query-link {
    display: inline;
    text-decoration: none;
    color:#3d3d3d;
}


#search{
    margin-right: 20px;
}

@media only screen and (max-width: 768px) {
    #search{
        display:none;
        order:0;
    }
}

#nav-msg-spc {
margin-top: 100px;
}


/* Home-Page */


#home {
    margin: auto;
    margin-top: 100px;
    padding-right: 0px;
    padding-left: 0px;
    padding-top:2rem;
    padding-bottom:2rem;
}


h4 {
    /*used throughout app as headlines*/
    color:white;
    margin:auto
}
```

```css
h5 {
   color:white;
   margin:auto
}

p {
   color:whitesmoke
}

/* Right (category-slideshow)*/

#slideshows {
   padding:0px;
}

#slideshow {
   margin:auto;
   margin-bottom:15px;
   padding:0px;
}

.d-block {
   /*image*/
   width: 250px;
   height: 175px;
   object-fit: contain
}

#slide-counter {
   padding:0px;
 }

h3 a{
   text-decoration: none;
   color:white
}

/*Left*/

.col-md-7 {
   /* column left for overall container, contains info */
   padding:0px;
}
```

```css
.announce {
  /*div for columns in cards*/
  padding:3px;
  margin:3px;
}

.heading {
  /*larger header div that includes descriptive text*/
  margin: 10px;
  text-align: center;
}

.heading h4 {
  /*eg, non-user, user, upcoming*/
  font-size: 2rem;
  padding-top: 1rem;
  padding-bottom:.5rem;
}

.carousel-caption {
        text-align:justify;
        padding:0px;
        background:rgba(0,0,0,0.4);
  font-size: 1.25vw;
  margin-bottom:2rem;
}

.category {
  padding:0.5rem;
  color:white;
}

.category:hover {
  text-decoration: none;
  color: #a3a3a3;
}


@media only screen and (max-width: 768px) {
  #slideshows{
     padding-top: 1rem;
   }
```

```css
    .carousel-caption {
      text-align:justify;
      padding:0px;
      background:rgba(0,0,0,0.4);
      font-size: 2vw;
      margin-bottom:2rem;
    }
    .caption {
      text-align:justify;
    }
}
```

Views.py

```python
from app import app, CURR_USER_KEY
from flask import request, render_template, flash, redirect,
render_template, session, g, jsonify
from models import User, Story, Query
from helpers import *
from news_api_calls import *
from forms import RegisterForm, LoginForm, SearchForm
from sqlalchemy import exc
from psycopg2.errors import UniqueViolation


#TODONOW:
#-rewrite code and distinguish between session['saved] and
session['results]


@app.before_request
def add_user_to_g():
    """If we're logged in, add curr user to Flask global."""
    if CURR_USER_KEY in session:
        g.user = User.query.get(session[CURR_USER_KEY])
    else:
        g.user = None


def do_login(user):
    """Log in user."""
    session[CURR_USER_KEY] = user.id
```

```python
def do_logout(user):
    """Logout user."""
    if CURR_USER_KEY in session:
        del session[CURR_USER_KEY]


"""View functions for application"""

with app.app_context():
    @app.route('/')
    def homepage():
        # return redirect("/login")
        no_user = True
        if g.user:
            no_user = False
        """NewsTracker Homepage"""
        categories = ['business', 'entertainment',
                'health', 'science', 'sports', 'technology']
        data = []
        results = async_reqs(categories)
        for index, result in enumerate(results):
            obj = {}
            obj['results'] = result
            obj['top_story'] = result[0]
            obj['name'] = categories[index].capitalize()
            data.append(obj)
        return render_template('/homepage.html', data=data,
no_user=no_user)


@app.route('/headlines', methods=['GET', 'POST'])
def headlines():
    """Default Search Query if user logged in with a saved query as
default"""
    if CURR_USER_KEY in session:
        user = User.query.get(g.user.id)
        queries = user.queries
        default = [query for query in queries if query.default]
        if default:
            return redirect(f"search/{default[0].id}")
        else:
            """Otherwise, Generic Top Headlines"""
            results = top_headlines_call()
```

```python
        return render_template('/show_stories.html', results=results)
    results = top_headlines_call()
    return render_template('/show_stories.html', results=results)


@app.route(f'/headlines/<category>')
def show_for_category(category):
    """Display top headlines for given category based off link clicked from
homepage"""
    category = category.lower()
    results = cat_calls(category, slideshow=False)
    return render_template('show_stories.html', results=results)


@app.route('/search', methods=['GET', 'POST'])
def search_form():
    """This function creates a dictionary extracting data from the search
form to be sent to the news-api"""
    if CURR_USER_KEY in session:
        form = SearchForm()
        if form.validate_on_submit():
            try:
                dict_query = form_query_to_dict(form)
                if form.saved_query.data or form.default.data:
                    db_query = dict_query_to_db(g.user.id, session['query'])
                    db.session.add(db_query)
                    db.session.commit()
                advanced_search_call(dict_query)
                return redirect('/search/results')
            except:
                return render_template('/search.html', form=form)
        else:
            return render_template('/search.html', form=form)
    else:
        flash("You do not have permission to view this page. Please log-in
and try again.", "danger")
        return redirect("/login")


@app.route('/search/<int:query_id>')
def search_user_queries(query_id):
    """Makes advanced search call based off of pre-saved query"""
    if CURR_USER_KEY in session:
        query_obj = Query.query.get(query_id)
```

```python
        query_dict = db_query_to_dict(query_obj)
        advanced_search_call(query_dict)
        return redirect('/search/results')
    else:
        flash("You do not have permission to make this action. Please log-in
and try again.", "danger")
        return redirect("/login")


@app.route('/search/results')
def handle_results():
    if CURR_USER_KEY in session:
        query = session['query']
        results = session['results']
        if query['sa'] == 'polarity':
            results = order_pol()
        elif query['sa'] == 'subjectivity':
            results = order_sub()
        else:
            return render_template('/show_stories.html', results=results)
    else:
        flash("You do not have permission to view this page. Please log-in
and try again.", "danger")
        return redirect("/login")
    return render_template('/show_stories.html', results=results)


@app.route('/search/simple', methods=['GET'])
def search_simple():
    """API Call and Results for Simple Search"""
    keyword = request.args.get("search")
    results = simple_search_call(keyword)
    return render_template('/show_stories.html', results=results)


@app.route('/user/saved')
def user_saved():
    if CURR_USER_KEY in session:
        user = User.query.get(g.user.id)
        is_empty = False
        if len(user.saved_stories) == 0:
            is_empty = True
        if "saved" in session:
```

```python
            session.pop("saved")
        session["saved"] = [story for story in user.saved_stories]
        return render_template("/user.html", user=user, is_empty=is_empty)
    else:
        flash("You do not have permission to view this page. Please log-in
and try again.", "danger")
        return redirect("/login")


@app.route('/story/<id>/open')
def open_story_link(id):
    """Opens url associated with story when link is clicked"""
    try:
        story = Story.query.get(id)
        return redirect(f"{story.url}")
    except:
        results = session['results']
        story = [story for story in results if story['id'] == id][0]
        return redirect(f"{story['url']}")

@app.route('/story/<id>/save_story', methods=["POST"])
def save_story(id):
    if CURR_USER_KEY in session:
        results = session["results"]
        session_story = [story for story in results if story['id'] == id][0]
        story = Story(headline=session_story['headline'],
source=session_story['source'], content=session_story['content'],
                author=session_story['author'],
description=session_story['description'], url=session_story['url'],
image=session_story['image'],
                published_at=session_story['published_at'],
id=session_story['id'], user_id = g.user.id)
        try:
            db.session.add(story)
            db.session.commit()

        except exc.SQLAlchemyError as e:
            if isinstance(e.orig, UniqueViolation):
                flash(f'The story "{story.headline}" already exists in your saved
stories.', 'danger')
                return redirect("/user/saved")
        return redirect("/user/saved")
    else:
```

```python
        flash("You do not have permission to make this action. Please log-in
and try again.", "danger")
        return redirect("/login")



@app.route('/story/<id>/remove', methods=["POST"])
def remove_story(id):
    if CURR_USER_KEY in session:
        Story.query.filter_by(id=id).delete()
        db.session.commit()
        return redirect("/user/saved")
    else:
        flash("You do not have permission to make this action. Please log-in
and try again.", "danger")
        return redirect("/login")



@app.route('/register', methods=['GET', 'POST'])
def register_user():
    form = RegisterForm(prefix='form-register-')
    if form.validate_on_submit():
        username = form.username.data
        password = form.password.data
        email = form.email.data
        first_name = form.first_name.data
        last_name = form.last_name.data
        new_user = User.register(
            username, password, email, first_name, last_name)
        try:
            db.session.add(new_user)
            db.session.commit()
            flash("Congratulations! You have successfully created an
account.", "success")
            do_login(new_user)
            return redirect('/headlines')
        except exc.SQLAlchemyError as e:
            if isinstance(e.orig, UniqueViolation):
                form.username.errors = [
                    "The username you entered is already taken. Please pick
another one."]
                #
https://www.youtube.com/embed/iBYCoLhziX4?showinfo=0&controls=1
&rel=0&autoplay=1
```

```python
    else:
        print("Form Not Validated")
    return render_template('register.html', form=form)


@app.route('/login', methods=['GET', 'POST'])
def login_user():
    form = LoginForm()
    if form.validate_on_submit():
        username = form.username.data
        password = form.password.data
        user = User.authenticate(username, password)
        if user:
            do_login(user)
            flash("Credentials verified. You are now logged in.", "success")
            return redirect('/headlines')
        else:
            form.username.errors = [
                "Invalid username or password. Please try again."]
    return render_template('login.html', form=form)


@app.route('/login/demo', methods=['POST'])
def login_demo_user():
    random = uuid.uuid4().hex[:8]
    username = f"demo-user{random}"
    password = 'demouser'
    first_name = "first"
    last_name = "name"
    email = f"demo{random}@user.com"
    demo_user = User.register(
            username, password, email, first_name, last_name)
    db.session.commit()
    db.session.add(demo_user)
    db.session.commit()
    do_login(demo_user)
    return redirect('/headlines')


@app.route('/logout')
def logout():
    """Handle logout of user."""
    if CURR_USER_KEY in session:
```

```python
        flash(f"You have successfully logged out.", "success")
        user = User.query.get(g.user.id)
        do_logout(user)
        return redirect("/headlines")
    else:
        return redirect("/login")


@app.route('/user/<int:query_id>/delete', methods=['POST'])
def remove_query(query_id):
    if CURR_USER_KEY in session:
        Query.query.filter_by(id=query_id).delete()
        db.session.commit()
        return jsonify({'response': f"Query deleted!"})
    else:
        flash("You do not have permission to make this action. Please log-in
and try again.", "danger")
        return redirect("/login")
```

FIRST VIEW
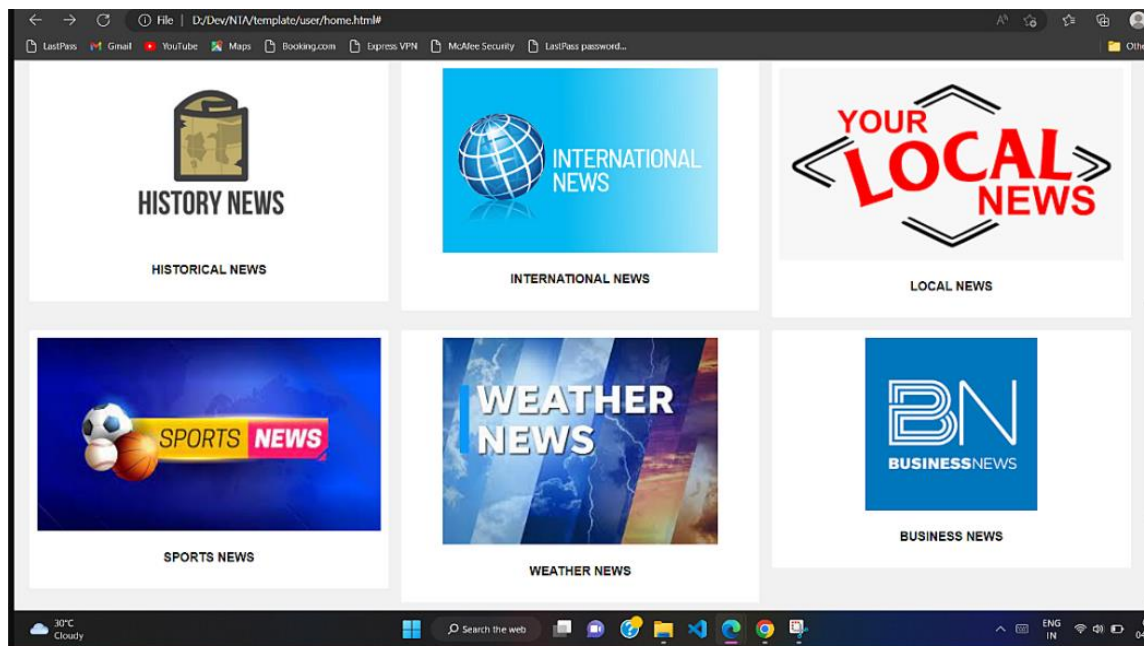
-0.25 (Negative)   Get Subjectivity

Meta reportedly tells managers to identify people for layoffs

— 2022-07-12 09:50:27+00:00

Some Meta employees could lose their jobs as the company prepares for leaner times ahead. According to The Information, Maher Saba, Meta's VP for Remote Presence, has instructed managers to identify ... [+2099 chars]

Save Story

0.5 (Very Positive)   Get Subjectivity

The Meta Quest 2 VR headset comes with a $25 gift card for Prime Day

— 2022-07-13 11:45:39+00:00

The Meta Quest 2 is already pretty affordable at $299, but now Amazon is sweetening the deal by bundling it with a free $25 gift card. While you still have to pay its full price upon checkout that's ... [+1478 chars]

Save Story

-0.62 (Negative)

Get Subjectivity

Russia about to run out of steam in Ukraine - MI6 chief

— 2022-07-21 17:37:53+00:00

By Gordon CoreraSecurity correspondent, BBC News Russia will struggle to maintain its military campaign and Ukraine may be able to hit back, the head of MI6 says. Richard Moore said Russia had seen... [+3759 chars]

Save Story

8.TESTING

8.1 TESTCASES

Test cases	features	Component	Test scenario	Expected result	Actual result	status	comments	bug	Execute by
Sign in	functional	Login page	Verify User can see the sign in	Can visible	Yes visible	pass	Successful	-	E.abirami
Sign up	functional	Login page	Verify user has the option to sign up	Can visible	Yes visible	pass	successful	-	U.vimala E.abirami
Forget password	functional	Login page	Verify user has the option to forget password	Yes the option is available	option is available	pass	successful	-	P.narmatha E.abirami
Fetch news	functional	Home page	Verify user can get the news	News will be feed to the app	404 error	fail	unsuccessful	-	S.prabhavathi
Types of news available in the fetch news page	functional	Fetch news	Types of news available	Weather, sports, political, education.	Hover buttons Will be shown.	yes	successful	-	S.manju P.naramatha

8.2 USER ACCEPTANCE TESTING

An easy-to-use, "one-click" system for end-users to report bugs and give feedback.Screenshots and annotations to make reports as actionable as possible.Automatic capture of environment info and console logs.Deep integration with your existing PM tools (Jira, GitHub, Trello…).Support for alpha testing and beta testing test cases.In a nutshell, the app records sessions of users and visitors on your app or website. During UAT testing, FullStory comes in handy to help you understand what steps

led to a particular bug and how to reproduce the bug for yourself.we use the app in two ways:

● Straightforward recording. If an error pops up, it will show up in the recording or the console logs. At this stage, it's pretty easy for us to conclude what happened and how to fix it.

● Abandoned pages/confusion. If a user gets stuck during testing, we can retrace their journey. Then, we set up a meeting to replay the session and ask them what was unclear. And with the we get the best of both worlds: the exact timestamp of when our tester reported a bug—allowing us to investigate what happened seconds before the report.

9.RESULTS

9.1 PERFORMANCE METRICS

A mobile app is a powerful business tool — its success needs to be measured just like any other business key metrics. Measurements that require special attention include tracking revenue, average check size, customer acquisition costs, retention rate, downloads, and user satisfaction. After reading this article, you'll understand the most crucial mobile application performance metrics.

10. ADVANTAGE &DISADANTAGE

● Stay Connected With The World.

● Strength then your Language skills and Enhance your Vocabulary.

● Be Part of a Larger Conversation.

● Be Informed About the Latest Discoveries and Innovations. Viewers can get their news straight off their smartphone or tablet computer. News is at their fingertips in an instant. An online newspaper can be read more elaborate than a printed newspaper. You can read the old issues too very easily at the click of the mouse.

● Enrich Your Knowledge.

● Misinformation spreads like wildfire.

● Children can access inappropriate information more easily.

● We can live in an ideological bubble.

● There is fierce media competition.

● There is a wider customer base for companies large and small.

●
Wastage of Paper: Millions of papers are printed every day using a few million bits of paper.

● Can be Time Wasting: Most individuals who read papers have the habit of perusing it in the first part of the day with their favourite thing in the world.

11. CONCLUSION

As news is increasingly accessed on smartphones and tablets, the need for personalising news app interactions is apparent. We report a series of three studies addressing key issues in the development of adaptive news app interfaces. We first surveyed users' news reading preferences and behaviours; analysis revealed three primary types of reader. We then implemented and deployed an Android news app that logs users' interactions with the app. We used the logs to train a classifier and showed that it is able to reliably recognise a user according to their reader type. Finally we evaluated alternative, adaptive user interfaces for each reader type. The evaluation demonstrates the differential benefit of the adaptation for different users of the news app and the feasibility of adaptive interfaces for news apps.

12. FUTURE SCOPE

The scope of your app is not in using the APIs available. The depend only on your successful implementation of the UI, UX and features that the user will love. There are many apps that provide news based on location. Some are quite popular even though the underlying technology is quite simple due to their effective UI, UX and fluid navigation UI. Some examples may include News republic (Though it is more than just a location based news app), Flipboard, Google News, etc...A news a app needs credibility and a name to which it is associated . And if not not exactly there will be some apps that revovle around the same idea. But anyways you can go ahead with development as long as the app has its own unique elements . But where are you planning to source the news , the Internet ? You'll have to invest to promote the app and let the users know about it.Once you decide to buy a plot, make sure you have all documents in place. Without these, your purchase will be delayed. Having all the proper legal documentation will help protect your land and home from any disputes in the future. Consult a lawyer to help you with every step of the documentation process.Most of the required documents can be grouped into two types - legal and personal.Legal documents: These documents are essential, and missing even one of these can result in a delay in purchase.

13. APPENDIX

```css
/* general foundational styles */
body {
    padding: 0;
    margin: 0;
    background: black;
    font-family: 'Abel', sans-serif !important;
}

ul {
    padding: 0;
    list-style-type: none;
    margin: auto;
}

span {
    color:whitesmoke
}

.messages {
    padding: 1rem;
    border-radius: 1rem;
    display:flex;
    justify-content: center;
    align-items: center;
    text-align:center;
}

.messages .success {
    background-color: rgba(0, 225, 0, 0.1);
    font-size:2rem;
    border-radius:1rem;
    padding-right:1rem;
    padding-left:1rem;
}
.messages .danger {
    background-color: rgba(255, 0, 0, 0.1);
    font-size:2rem;
    border-radius:1rem;
    padding-right:1rem;
    padding-left:1rem;
}
```

```css
.home-body {
  display: flex;
  justify-content: center;
}

#indentation {
  margin-bottom: 100px;
  margin-right:0px;
}

@media only screen and (max-width: 576px) {
  ul {
  list-style-type: none;
  }
  #stories {
  margin-left:40px;
  }
}


/* card styles for each news story*/
.no-stories {
  /* padding:2rem; */
  margin-left:2rem;
  margin-right:2rem;
  text-align:center;
  display:flex;
}

.row {
  margin: auto;
}

.container {
  background: #242424;
  border-radius: 30px;
  margin-bottom:2rem;
}

.card {
  justify-content: center;
  margin: auto;
```

```css
    border-radius: 10px;
    transition-duration: 0.5s;
}
.card:hover {
    border-width: 1px;
    background: #ade7ff;
    margin: auto;
    box-shadow: 1px 1px 10px 10px #95eeee;
}

.card-body {
    background: #3d3d3d;
    border-radius: 10px;
    justify-content: center;
    transition-duration: 0.5s;
}

.card-body:hover {
    background: rgb(65, 65, 65)
}

.results {
    color:whitesmoke;
    margin:auto;
    }

#date {
    color:gainsboro;
}

#image {
    margin-bottom: 10px;
}


/* more specific card styles to adapt to the behavior of mobile devices*/


@media only screen and (max-width: 768px) {
    #left-b{
        margin-bottom: 10px;
        order: 1;
        padding-right: 0px;
```

```css
    }
    #image {
        order: 0;
        width: 100%;
    }
    #right-b{
        margin-bottom: 10px;
        order: 1;
        padding-left:0px;
    }

}
@media only screen and (max-width: 576px) {
    .container {
        justify-content: center;
    }
    #image {
        margin-top: -20px;
        order:0;
    }
    #search{
        display:none;
    }
}


/* form styling */

h1 {
    color:whitesmoke;
    font-family: 'Times New Roman', Times, serif;
}

.form {
    color: whitesmoke;
}

.form-alert {
        margin: 20px;
}

.submit-b {
    margin-bottom:20px;
```

```css
}

.demo-user {
  text-align:center;
  margin-bottom:20px;
}
#content {
  color:white;
  margin-top: 5px;
}

.headline {
  margin-top: 12px;
  color:gainsboro;
}

.headline:hover {
  text-decoration: none;
  color: #a3a3a3;
  border-radius: 40px;
}


/* navbar styles*/


.navbar {
  background-color: black;
  color:rgb(65, 65, 65);
}

.close {
  display: inline-block;
  font-size: 30px;
  font-weight: 600;
 }

.navbar-toggler {
  margin-right:10px;
}

.nav-item {
  margin:auto;
```

```css
    color: #f2f2f2;
    font-family: 'Times New Roman', Times, serif;
    padding-left: 0px;
    text-decoration: none;
    font-size: 17px;
    transition-duration: 0.25s;
    font-size:16px;
}

.nav-item:hover {
    background-color:rgb(119, 119, 119) ;
    color: black;
    text-decoration: none;
}

.navbar-nav{
    margin:0px;
}

#dropdown-item {
    display: inline;
    text-decoration: none;
    padding-right:10px;
}

.query-link {
    display: inline;
    text-decoration: none;
    color:#3d3d3d;
}


#search{
    margin-right: 20px;
}

@media only screen and (max-width: 768px) {
    #search{
        display:none;
        order:0;
    }
}
```

```css
#nav-msg-spc {
margin-top: 100px;
}



/* Home-Page */


#home {
   margin: auto;
   margin-top: 100px;
   padding-right: 0px;
   padding-left: 0px;
   padding-top:2rem;
   padding-bottom:2rem;
}


h4 {
   /*used throughout app as headlines*/
   color:white;
   margin:auto
}

h5 {
   color:white;
   margin:auto
}

p {
   color:whitesmoke
}

/* Right (category-slideshow)*/

#slideshows {
   padding:0px;
}

#slideshow {
   margin:auto;
   margin-bottom:15px;
   padding:0px;
```

```css
}

.d-block {
  /*image*/
  width: 250px;
  height: 175px;
  object-fit: contain
}

#slide-counter {
  padding:0px;
 }

h3 a{
  text-decoration: none;
  color:white
}

/*Left*/

.col-md-7 {
  /* column left for overall container, contains info */
  padding:0px;
}

.announce {
  /*div for columns in cards*/
  padding:3px;
  margin:3px;
}

.heading {
  /*larger header div that includes descriptive text*/
  margin: 10px;
  text-align: center;
}

.heading h4 {
  /*eg, non-user, user, upcoming*/
  font-size: 2rem;
  padding-top: 1rem;
  padding-bottom:.5rem;
}
```

```css
.carousel-caption {
        text-align:justify;
        padding:0px;
        background:rgba(0,0,0,0.4);
    font-size: 1.25vw;
    margin-bottom:2rem;
}

.category {
    padding:0.5rem;
    color:white;
}

.category:hover {
    text-decoration: none;
    color: #a3a3a3;
}


@media only screen and (max-width: 768px) {
    #slideshows{
        padding-top: 1rem;
    }
    .carousel-caption {
        text-align:justify;
        padding:0px;
        background:rgba(0,0,0,0.4);
        font-size: 2vw;
        margin-bottom:2rem;
    }
    .caption {
        text-align:justify;
    }
}


const body = document.querySelector("body");

const homeAdd = function (arg) {
    arg.classList.add("home-body");
}
```

```javascript
//axios requests that reach our server to run SA on said story and show result
inside button
const saButtons = document.querySelectorAll(".sa-button");
for (let button of saButtons) {
    button.addEventListener("click", async function (evt) {
        evt.preventDefault();
        const text = button.firstChild;
        const input = text.nextSibling;
        const value = input.value;
        const storyID = button.getAttribute('data-story')
        if (value === "Get Polarity") {
            try {
                const req = await axios.post(`/story/${storyID}/polarity`);
                const resp = req.data.response;
                input.value = resp;
            } catch (error) {
                console.error(error.response.data)
            }
        }
        else if (value === "Get Subjectivity") {
            const req = await axios.post(`/story/${storyID}/subjectivity`);
            const resp = req.data.response;
            input.value = resp;
        }
    })
}

const deleteQueryButtons = document.querySelectorAll(".close")
for (let button of deleteQueryButtons) {
    button.addEventListener("click", async function (evt) {
        console.log("CLICKEDDDD")
        const queryID = button.getAttribute('data-query')
        console.log(queryID)
        const req = await axios.post(`/user/${queryID}/delete`);
        const resp = req.data.response;
        button.value = resp;
    })
}


//Replace broken images with default image

const default_avatar = 'https://secure.gravatar.com/avatar?d=wavatar';
```

```javascript
window.addEventListener("load", event => {
    let images = document.querySelectorAll('img');
    for (let image of images) {
        let isLoaded = image.complete && image.naturalHeight !== 0;
        if (!isLoaded) {
            image.src = default_avatar;
        }
    }
});
```
```python
import sys
sys.path.append("..")
from unittest import TestCase
from app import app
from models import db, User, Story, Query
app.config['SQLALCHEMY_ECHO'] = False
app.config['TESTING'] = True
app.config['SQLALCHEMY_ECHO'] = False
app.config['DEBUG_TB_HOSTS'] = ['dont-show-debug-toolbar']
app.config['SQLALCHEMY_DATABASE_URI'] = 'postgresql:///newstracker-
test'


db.drop_all()
db.create_all()

class User_Model(TestCase):

    def setUp(self):
        """Cleans up any existing users"""
        User.query.delete()
        user = User.register(
            "dummy", "dummypassword", "dumb@y.com", "dummy", "account")
        db.session.add(user)
        db.session.commit()
        self.user = user

    def tearDown(self):
        db.session.rollback()

    def test_register(self):
        user = User.register(
            "testuser", "test4444", "test@test.com", "test", "user")
        """Tests columns id and username as written in __repr__"""
```

```python
        self.assertEqual(str(user), f"<ID: {user.id}, Username:{user.username}>")
        # self.assertEquals(str(user), f"<ID: 1, Username:testuser>")
        """Tests that columns are accessible as written"""
        # todo: make sure model is autonmatically assigning id, right now the
following test fails
        # self.assertEquals(user.id, 1)
        self.assertEqual(user.username, "testuser")
        self.assertEqual(user.email, "test@test.com")
        self.assertEqual(user.first_name, "test")
        self.assertEqual(user.last_name, "user")
        """Tests that password is hashed and not accessible"""
        self.assertNotEqual(user.password, "test4444")

    def test_passes_authenticate(self):
        """Tests that authentication can be passed based off of pre-existing data"""
        user = User.authenticate(self.user.username, "dummypassword")
#password is hashed on registration and needs to be passed as string to pass test
        self.assertNotEqual(user, False) # authenticate method returns false if fails,
user object if passes

    def test_fails_authenticate(self):
        user = User.authenticate("incorrect", "dummypassword")
        self.assertEqual(user, False)

    def test_fails_authenticate_hashed(self):
        user = User.authenticate(self.user.username, self.user.password)
        self.assertEqual(user, False)
    Import
    sys
            sys.path.append("..")
            from unittest import TestCase
            from app import app
            from models import db, User, Story, Query
            app.config['SQLALCHEMY_ECHO'] = False
            app.config['TESTING'] = True
            app.config['SQLALCHEMY_ECHO'] = False
            app.config['DEBUG_TB_HOSTS'] = ['dont-show-debug-toolbar']
            app.config['SQLALCHEMY_DATABASE_URI'] =
            'postgresql:///newstracker-test'


            db.drop_all()
            db.create_all()
```

```python
class User_Model(TestCase):


    def setUp(self):
        """Cleans up any existing users"""
        User.query.delete()
        user = User.register(
            "dummy", "dummypassword", "dumb@y.com", "dummy",
"account")
        db.session.add(user)
        db.session.commit()
        self.user = user


    def tearDown(self):
        db.session.rollback()


    def test_register(self):
        user = User.register(
            "testuser", "test4444", "test@test.com", "test", "user")
        """Tests columns id and username as written in __repr__"""
        self.assertEqual(str(user), f"<ID: {user.id},
Username:{user.username}>")
        # self.assertEquals(str(user), f"<ID: 1, Username:testuser>")
        """Tests that columns are accessible as written"""
        # todo: make sure model is autonmatically assigning id, right
now the following test fails
        # self.assertEquals(user.id, 1)
        self.assertEqual(user.username, "testuser")
        self.assertEqual(user.email, "test@test.com")
        self.assertEqual(user.first_name, "test")
        self.assertEqual(user.last_name, "user")
        """Tests that password is hashed and not accessible"""
        self.assertNotEqual(user.password, "test4444")


    def test_passes_authenticate(self):
        """Tests that authentication can be passed based off of pre-
existing data"""
```

```python
        user = User.authenticate(self.user.username,
"dummypassword") #password is hashed on registration and needs
to be passed as string to pass test
        self.assertNotEqual(user, False) # authenticate method returns
false if fails, user object if passes


    def test_fails_authenticate(self):
        user = User.authenticate("incorrect", "dummypassword")
        self.assertEqual(user, False)



    def test_fails_authenticate_hashed(self):
        user = User.authenticate(self.user.username,
self.user.password)
        self.assertEqual(user, False)
```

GitHubLink :

https://github.com/IBM-EPBL/IBM-Project-29058-
1660120455.git

VIDEO LINK:

IBM-EPBL/**IBM-Project-29058-1660120455**