

**NEWS TRACKERAPPPLICATION
USINGCLOUD**

A Projectreport submitted in partial fulfilment of 7th semester in degreeof

**BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE AND ENGINEERING
*Submitted by***

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AMRITA COLLEGE OF ENGINEERING AND TECHNOLOGY
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BONAFIDE CERTIFICATE

Certified that this project report “**NEWS TRACKER APPLICATION**” is the bonafide record work done by **Ms REBISHA S(962319104073)**, **Mr PRAVIN M (962319104071)**, **Mr SAJU SHAGAAR M M(962319104077)** and **Mr SHARAN B(962319104081)** for **IBM-NALAIYATHIRAN** in **VII** semester of **B.E., degree course in Computer Science and Engineering** branch during the academic year of 2022 - 2023.

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Sharan B

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News TrackerApplication

INTRODUCTION

Mobile app ecosystems are transforming patterns of news consumption. Until quite recently, reading the news was a niche use for smartphones [12], mostly for when users were ‘on the go’; now however, two in every three users of mobile devices in the US regularly access news and as many as one in five read in-depth news articles daily [2]; a similar picture is found in the UK [1]. This growth in mobile news access continues the migration of news consumers to the Internet.

Project overview

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

Purpose

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

LITERATURE SURVEY

Existing problem

Sl. No	Title	Authors	Year	Techniques	Merits	Demerits
1	Design and Implementation of News Collecting and Filtering System Based on RSS	Zheng, R., & Zhang, Y.	2012	Using RSS to collect news with enhanced search system	System can automatically collect the latest news information from the subscribe site, then parsing and storing the information into database.	Graphics and photos do not always appear .Posts are easily de-formatted or fully erased. RSS might make the process a bit unpleasant
2	Effects of Incidental Brief Exposure to News on News Knowledge While Scrolling Through Videos	Masanori Takano Yuki Ogawa Fumiaki Taka Soichiro Morishita	2021	Using Video shorts for news. Video Intelligent API	Every people can easily understand the news by watching the video content	Videos may be in multiple aspect ratio, cluttered, textured background
3	An Approach to Event Mining Based on Massive Online News	Piaopiao Zheng; Jian Wan; Huayou Si; Shuangshuang Zhang; Wenpeng Tao	2018	Single-Pass Clustering Algorithm	Automatic recovery from failure, that is, recovery without user intervention	complexity and inability to recover from database corruption.

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References

Like articles, websites,
blogs.

<https://www.researchgate.net/>.

<https://techvidvan.com/tutorials/android-news-app-project-source-code/><https://www.ripublication.com/>

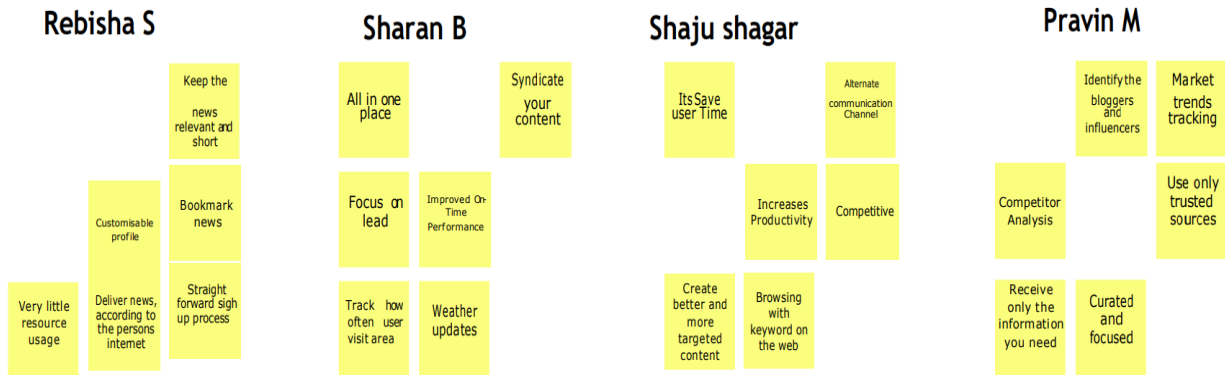
Problem Statement Definition

1. The user needs a way to organize the news on daily basis so that he can cope up with daily events in his tight schedule.
2. The user wants to read news only about particular topics so that he can be informed about his interest.
3. The user wants to get informed from only certified news outlets .
1. The user needs a way to search about the news on topics he wants to.
2. The user wants to know the news about his surrounding using GPS location.

IDEATION & PROPOSED SOLUTION

Empathy Map Canvas

Ideation & Brainstorming



Proposed Solution

S.NO	PARAMETERS	DESCRIPTION
1.	Problem statement (problems to be solved)	User needs a way to get a interested marketing in a quick peek of the day. So that we give relevant news where the user more interested on that day and save their time.
2.	Idea/solution description	We provide relevant news where the user more interested on that day.
3.	Novelty/Uniqueness	Saving and downloading the interested articles.
4.	Social Impact/Customer satisfaction	When news feed are customized/personalized to the user, the time spend to learn about the day will be minimized and will be completely productive.

5.	Business Model(Revenue)	Shown below.
6.	Scalability of the solution	<p>The first step is to predict user interests and collect relevant data for user personalization.</p> <p>The system provides filter option and sorting the user relevant news and saves the time.</p>

Problem Solution fit

1. REQUIREMENT ANALYSIS

Functional requirement

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement(Epic)	Sub Requirement (Story/ Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail

FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Login	They enter the user id and password which they provided during their registration.
FR-4	User Review	It helps to develop the app further and improve our application features.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Need to update their knowledge towards their interested news.
NFR-2	Security	The information collected from user would be very safe and secure
NFR-3	Reliability	It will operate in a defined environment without failure.
NFR-4	Performance	It is easy to use and the application is easy to access.
NFR-5	Availability	The information whatever the user needed everything is available in this application.
NFR-6	Scalability	It is an open free source and support to all platform where millions of people can use this

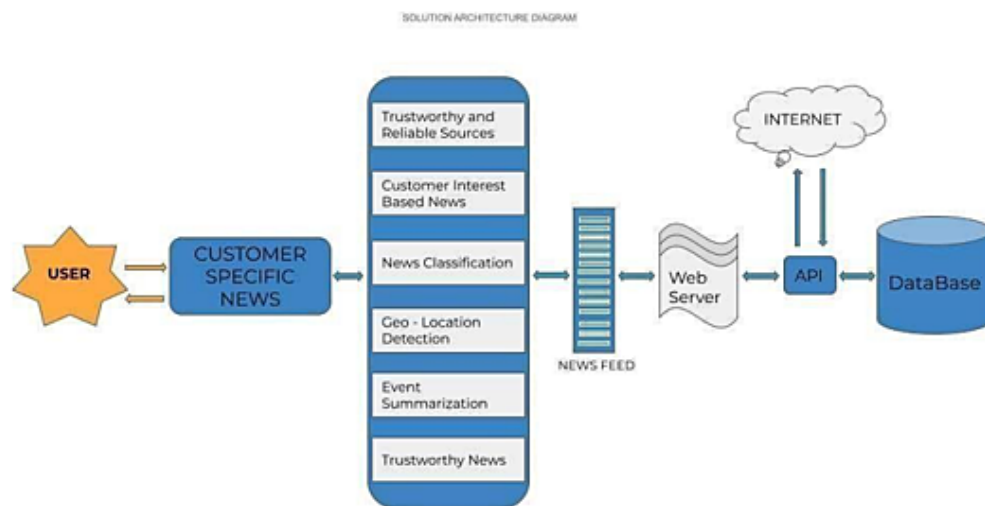
		application.
--	--	--------------

PROJECT DESIGN

Data Flow Diagrams

Solution & Technical Architecture

Solution Architecture Diagram:



User Stories

User Stories

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

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-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
Customer (Web user)						

PROJECT PLANNING & SCHEDULING

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.	28 October 2022

Prepare Empathy Map	Prepare Empathy MapCanvas to capture the user Pains & Gains, Prepare list of problem statements	28 October 2022
---------------------	-------------------------------------------------------------------------------------------------	-----------------

Ideation Brain Storming	List the by organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility & importance.	28 October 2022
Proposed Solution	Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc.	28 October 2022
Problem Solution Fit	Prepare problem solution fit document	28 October 2022
Solution Architecture	Prepare solution architecture document.	28 October 2022
Customer Journey	Prepare the customer journey maps to understand the user interactions & experiences with the application (entry to exit).	28 October 2022

Solution Requirement	Prepare the functional requirement document	28 October 2022
Data Flow Diagrams	Draw the dataflow diagrams and submit for review.	28 October 2022

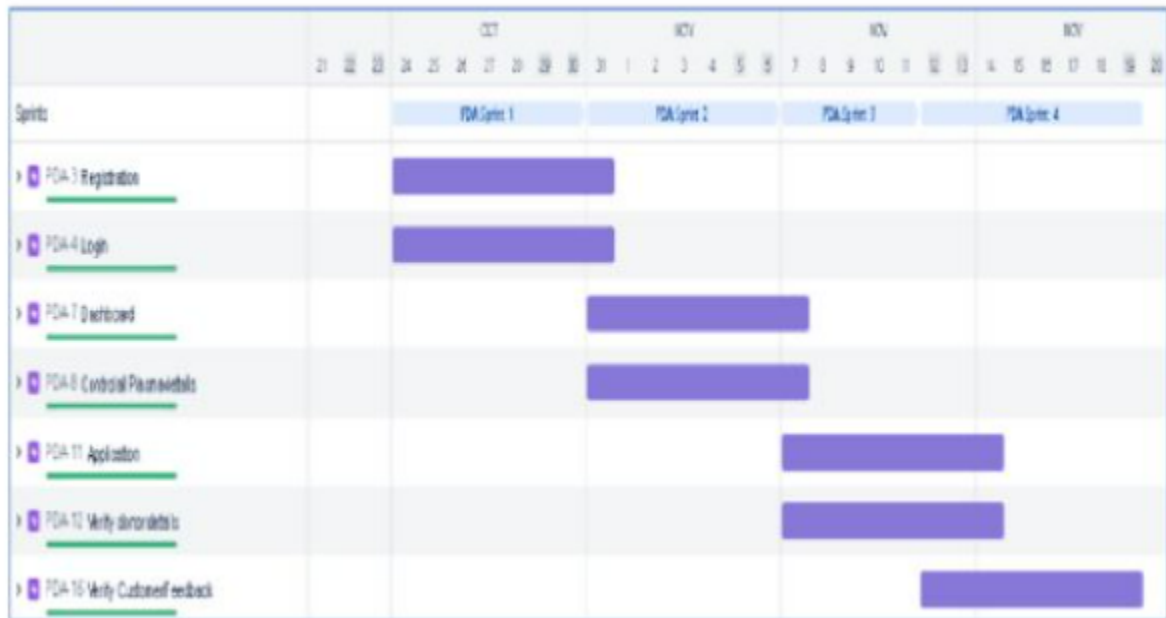
Technology Architecture	Prepare the technology architecture diagram.	28 October 2022
Prepare Milestone & Activity List	Prepare the milestones & activity list of the project.	31 October 2022
Project Development - Delivery of Sprint-1, 2, 3 & 4	Develop & submit the developed code by testing it.	IN PROGRESS..

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	Rebisha S
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Pravin M
Sprint-1		USN-3	As a user, I can register for the application through Facebook	2	Low	Saju Sagar M M
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	Sharan B
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Rebisha S, Pravin M
Sprint-2	Dashboard	USN-6	As a user I should be able to navigate and access all the features hassle free	2	High	Saju Sagar M M, Sharan B
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	Sharan B, Rebisha S
Sprint-3	Data Store and retrieval	USN-8	Get Data from API and store as JSON in DB2	3	High	Pravin M, Saju Sagar M M
Sprint-3		USN-9	Get bin data from API and store in DFS	2	High	Rebisha S, Saju Sagar M M
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	Pravin M

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Change code	USN-11	As an administrator I should be able to modify code according to the future requirements.	2	Medium	Rebisha S, Pravin M
Sprint-4	Monitor the system	USN-12	As an administrator I should be able to monitor the cloud system and fix errors before customer.	1	High	Saju Sagar M M

Reports from JIRA



2. CODING & SOLUTIONING

Main.py

```
from flask import Flask, render_template, request, redirect, url_for, session, flash
```

```
import ibm_db
```

```
import random
```

```
app = Flask(__name__)
```

```
# Change this to your secret key (can be anything, it's for extra protection)
```

```
app.secret_key = '1a2b3c4d5e'
```

```
# Enter your database connection details below
```

```
conn = ibm_db.connect(
```

```
    'DATABASE=bludb;'
```

```
    'HOSTNAME=fbd88901-ebdb-4a4f-a32e-  
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;'
```

```
    'PORT=32731;'
```

```
    'SECURITY=SSL;'
```

```
    'certi.crt;'
```

```
    'UID=vqf93328;'
```

```
    'PWD=vwTMX4JBGnWBJHoU;', ", "
```

```
)
```

```
@app.route('/test')
```

```
def test():
```

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

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

```
def login():
```

```
# Output message if something goes wrong...
```

```
# Check if "username" and "password" POST requests exist (user submitted form)
```

```
if request.method == 'POST':
```

```
    # getting user data
```

```
    email = request.form.get('email')
```

```
    password = request.form.get('password')
```

```
    sql_check_query = "SELECT * FROM user1 WHERE email = ?"
```

```
    stmt = ibm_db.prepare(conn, sql_check_query)
```

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

```
ibm_db.execute(stmt)
```

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

```
print(account)
```

```
if account:
```

```
    # email id exists
```

```
    # checking if the password is correct
```

```
    if not account['PASSWORD'] == password:
```

```
        flash('Invalid password', category='error')
```

```
    else:
```

```
        # user entered the correct password
```

```
        # redirecting the user to the dashboard
```

```
        session['USERNAME'] = account['EMAIL']
```

```
        session['loggedin'] = True
```

```
        return redirect('/home')
```

else:

email id does not exist in the database

flash('Email invalid... Try Again', category='error')

return render_template('auth/login.html')

return render_template('auth/login.html')

http://localhost:5000/pythinlogin/register

This will be the registration page, we need to use both GET and POST requests

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

def register():

Check if "username", "password" and "email" POST requests exist (user submitted form)

if request.method == 'POST':

getting user data

```
email = request.form.get('email')

password = request.form.get('password')

# username = request.form.get('username')

# checking: user already exists or not

sql_check_query = "SELECT * FROM user1 WHERE email = ?"

stmt = ibm_db.prepare(conn, sql_check_query)

ibm_db.bind_param(stmt, 1, email)

ibm_db.execute(stmt)


account = ibm_db.fetch_assoc(stmt)

# email id does not exist in the database

if not account:

    # inserting the data into the database

    sql_insert_query = "INSERT INTO user1 VALUES (?, ?)"

    stmt = ibm_db.prepare(conn, sql_insert_query)

    ibm_db.bind_param(stmt, 1, email)

    ibm_db.bind_param(stmt, 2, password)
```



```
# ibm_db.bind_param(stmt, 3, username)
```

```
ibm_db.execute(stmt)
```

```
# user data inserted into the database
```

```
# redirecting to login page
```

```
flash('User created successfully! Please Login', category='success')
```

```
return redirect('/')
```

```
else:
```

```
flash('Email id already exists! Try another one', category='error')
```

```
return render_template('auth/register.html')
```

```
return render_template('auth/register.html')
```

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

```
def home():
```

```
categories = ['Magazines', 'Books', 'Movies', 'Music', 'Games', 'Electronics', 'Computers']
```

```
NewsCategory = ['Business', 'Entertainment', 'General', 'Health', 'Science', 'Sports',  
'Technology', 'World', 'International', 'Tech', 'It', 'Software' ]
```

```
# Check if user is loggedin
```

```
if 'loggedin' in session:
```

```
# User is loggedin show them the home page
```

```
searchQuery = request.args.get('query')
```

```
# //searchQuery is empty default value is bitcoin
```

```
# random NewsCategory = random.choice(NewsCategory)
```

```
if searchQuery is None:
```

```
    searchQuery = random.choice(NewsCategory)
```

```
API_KEY = '9165e9c0bbbe4d3d8f7aba2bddb1e1d2'
```

```
BASE_URL = 'https://newsapi.org/v2/'
```

```
# get data from api https://newsapi.org/v2/everything?q=searchQuery&apiKey=API_KEY
```

```
import requests
```

```
url = BASE_URL + 'everything?q=' + searchQuery + '&apiKey=' + API_KEY
```

```
response = requests.get(url)
```

```
data = response.json()
```

```
first_article = data['articles'][0]
```

```
three_articles = data['articles'][1:4]
```

```
    return render_template('index.html',categories=categories, NewsCategory=NewsCategory  
,username=session['USERNAME'],title="Homes", data=data, first_article=first_article,  
three_articles=three_articles)
```

```
# User is not loggedin redirect to login page
```

```
return redirect(url_for('login'))
```

```
@app.route('/profile')
```

```
def profile():
```

```
# Check if user is loggedin
```

```
if 'loggedin' in session:
```

```
    # User is loggedin show them the home page
```

```
    return render_template('auth/profile.html',  
username=session['USERNAME'],title="Profile")
```

```
    # User is not loggedin redirect to login page
```

```
    return redirect(url_for('login'))
```

```
if __name__ == '__main__':
```

```
    app.run(debug=True)
```

Login.html

```
{% extends 'auth/auth_layout.html' %}
```

```
{% block title %} {{ title }} {% endblock %}
```

```
{% block content %}
```

```

<div class="login">

    {% include "includes/alert.html" %}

    <h1>News- Config</h1>

    <div class="links">

        <a href="{{ url_for('login') }}" class="active">Login</a>

        <a href="{{ url_for('register') }}">Register</a>

    </div>

    <form action="{{ url_for('login') }}" method="post">

        <label for="username">

            <i class="fas fa-user"></i>

        </label>

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

        <label style="background-color: #FF5F1F ;" for="password">

            <i class="fas fa-lock"></i>

        </label>

        <input type="password" name="password" placeholder="Password" id="password"
required>

        <div class="msg">{{ msg }}</div>

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

    </form>

</div>

{% endblock %}

```

Register.html

```
{% extends 'auth/auth_layout.html' %}
```

```
{% block title %} {{ title }} {% endblock %}
```

```
{% block content %}
```

```
<div class="register">
```

```
    {% include "includes/alert.html" %}
```

```
<h1>Register</h1>
```

```
<div class="links">
```

```
    <a href="{{ url_for('login') }}">Login</a>
```

```
    <a href="{{ url_for('register') }}" class="active">Register</a>
```

```
</div>
```

```
<form action="{{ url_for('register') }}" method="post" autocomplete="off">
```

```
    <input type="email" name="email" placeholder="Email" id="email" required>
```

```
    <label for="password">
```

```
        <i class="fas fa-lock"></i>
```

```
    </label>
```

```
    <input type="password" name="password" placeholder="Password" id="password"
```

```
required>
```

```
<label for="email">
```

```
    <i class="fas fa-envelope"></i>
```

```
</label>
```

```
<div class="msg">{{ msg }}</div>
```

```
<input type="submit" value="Register">
```

```
</form>
```

```
</div>
```

```
{% endblock %}
```

3. TESTING

4. Test Cases

Fetch news	Functional	Home page	Verify user can get the news	News will be feed to the app	404 error	Fail	unsuccessful	App integration problem
Types of news available in the fetch news page	Functional	Fetch news	Types of news available	Weather, Sport, Economy.	Hover buttons will be shown.	Yes	successful	–

Result:

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

1. ADVANTAGES & DISADVANTAGES

Advantages:-

- In this app news is already categorization.

2. Easily accessible and portable.
3. Better user experience.
4. Apps help you convert visitors to loyal readers.
5. Minute by minute updates of news.
6. This app helps you to get local news updates instantly.
7. To explore and discover trending news and topics.
8. News feeds for you based on your interest.

Disadvantages:-

- a. Some apps demand premium subscription from user.
9. Occurrence of Advertisement disturbs the user.
10. Sometimes the news gives brief information.
11. Prevalence of fake and uncertain news can confuse the user lead to misconception.
12. Fake news may mislead the readers.

13. CONCLUSION

We explored the feasibility of recognising patterns of news reading interactions and evaluated three adaptive interface designs for different news reader types. We show that from their interaction log, a specific user can be recognised as one of three kinds. The reader types emerging from the online survey are well defined and distinct. The evaluation of the three variant interfaces suggests that different news reader types need different user interfaces. We have demonstrated a method for monitoring users' news reading behaviour and

inferring news reader type from it. In the future we will further explore the design of

adaptive interfaces, in order to be in a position to demonstrate a complete adaptive mobile news framework providing automatic personalisation of news apps.

14. FUTURE SCOPE

In the future we will further explore the design of adaptive interfaces, in order to be in a position to demonstrate a complete adaptive mobile news framework providing automatic personalisation of news apps.

15. APPE

NDIX

Source code

Auth_layout.html

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

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

```
<title>{% block title %}{% endblock %}</title>
```

```
<link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
```

```
<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.7.1/css/all.css">
```

```
<!-- Bootstrap CSS -->
```

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
```

```
rel="stylesheet" integrity="sha384-
```

```
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"
```

```
crossorigin="anonymous">
```

</head>

<body>

{% block content %}

{% endblock %}

<!-- Bootstrap Bundle with Popper -->

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"

integrity="sha384-

MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"

crossorigin="anonymous"></script>

</body>

</html>

Profile.html

{% extends 'home/layout.html' %}

{% block title %} {{ title }} {% endblock %}

{% block content %}

<h2>Profile Page</h2>

<div>

<p>Your account details are below:</p>

<table>

```
<tr>

    <td>Username:</td>

    <td>{{ session['username'] }}</td>

</tr>

<tr>

    <td>Password:</td>

    <td>{{ session['password'] }}</td>

</tr>

<tr>

    <td>Email:</td>

    <td>{{ session['email'] }}</td>

</tr>

</table>

</div>

{% endblock %}
```

Home.html

```
{% extends 'home/layout.html' %}

{% block title %} {{ title }} {% endblock %}

{% block content %}

<h2>Home Page</h2>
```

```
<p>Welcome back, {{ username }}!</p>
```

```
<div class="form-group">
```

```
<form method="GET" >
```

```
<input type="text" id="search" name="query" placeholder="Search news by title" class="form-control" >
```

```
<br/>
```

```
<button type="submit" class="btn btn-primary">Search</button>
```

```
</form>
```

```
</div>
```

```
<style>
```

```
.img-fluid {
```

```
max-width: 350%;
```

```
height: auto;
```

```
}
```

```
</style>
```

```
{% for artcles in data.articles %}
```

```
<div class="row">
```

```
<div class="col-md-6">
```

```
<h3>{{ artcles.title }}</h3>
```

```
<div class="row">
```

```
<div class="col-md-4">
```

```

```

```
<p>{{ articles.description }}</p> - <a href="{{ articles.url }}">Read More</a>
```

```
<p> By ~ {{ articles.author }}</p>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
{% endfor %}
```

```
{% endblock %}
```

Layout.html

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

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

```
<title>{% block title %}{% endblock %}</title>
```

```
<link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
```

```
<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.7.1/css/all.css">
```

```
<!-- Bootstrap CSS -->

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"
crossorigin="anonymous">

</head>

<body class="loggedin">

  <nav class="navtop">

    <div>

      <h1>News- Config</h1>

      <a href="{{ url_for('home') }}"><i class="fas fa-home"></i>Home</a>

      <a href="{{ url_for('profile') }}"><i class="fas fa-user-circle"></i>Profile</a>

      <a href=""><i class="fas fa-sign-out-alt"></i>Logout</a>

    </div>

  </nav>

  <div class="content">

    {% block content %}{% endblock %}

  </div>

  <!-- Bootstrap Bundle with Popper -->

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
```

MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"

crossorigin="anonymous"></script>

</body>

</html>

Alter.html

```
{% with messages = get_flashed_messages(with_categories=true) %}
```

```
<!-- Categories: success (green), info (blue), warning (yellow), danger (red) -->
```

```
{% if messages %}
```

```
{% for category, message in messages %}
```

```
<div class="container p-2">
```

```
<div class="alert alert-{{ category }} alert-dismissible fade show" role="alert">
```

```
    {{ message }}
```

```
    <button type="button" class="btn-close" data-bs-dismiss="alert" aria-  
label="Close"></button>
```

```
</div>
```

```
</div>
```

```
{% endfor %}
```

```
{% endif %}
```

```
{% endwith %}
```


Index.html

```
<!DOCTYPE html>

<html lang="zxx">

  <head>

    <!-- Required meta tags -->

    <meta charset="UTF-8" />

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

    <meta http-equiv="X-UA-Compatible" content="ie=edge" />

    <title>News- Config </title>

    <!-- plugin css for this page -->

    <link

      rel="stylesheet"

      href="{{ url_for('static', filename='assets/vendors/mdi/css/materialdesignicons.min.css') }}"

    />

    <link rel="stylesheet" href="{{ url_for('static',

filename='assets/vendors/aos/dist/aos.css/aos.css') }}" />

    <!-- End plugin css for this page -->

    <link rel="shortcut icon" href="assets/images/favicon.png" />

    <!-- inject:css -->

    <link rel="stylesheet" href="{{ url_for('static', filename='assets/css/style.css') }}">
```

```
<!-- endinject -->
```

```
</head>
```

```
<body>
```

```
<div class="container-scroller">
```

```
<div class="main-panel">
```

```
<!-- partial:partials/_navbar.html -->
```

```
<header id="header">
```

```
<div class="container">
```

```
<nav class="navbar navbar-expand-lg navbar-light">
```

```
<div class="navbar-top">
```

```
<div class="d-flex justify-content-between align-items-center">
```

```
<!-- <ul class="navbar-top-left-menu">
```

```
<li class="nav-item">
```

```
<a href="pages/index-inner.html" class="nav-link">Advertise</a>
```

```
</li>
```

```
<li class="nav-item">
```

```
<a href="pages/aboutus.html" class="nav-link">About</a>
```

```
</li>
```

```
<li class="nav-item">
```

```
<a href="#" class="nav-link">Events</a>
```

```
</li>
```

```
<li class="nav-item">

  <a href="#" class="nav-link">Write for Us</a>

</li>

<li class="nav-item">

  <a href="#" class="nav-link">In the Press</a>

</li>

</ul> -->

<!-- <ul class="navbar-top-right-menu">

  <li class="nav-item">

    <a href="#" class="nav-link"><i class="mdi mdi-magnify"></i></a>

  </li> -->

  <!-- <li class="nav-item">

    <a href="{{ url_for('login') }}" class="nav-link">Login</a>

  </li>

  <li class="nav-item">

    <a href="{{ url_for('register') }}" class="nav-link">Register</a>

  </li> -->

</ul>

</div>

</div>

<div class="navbar-bottom">

  <div class="d-flex justify-content-between align-items-center">
```

```
<div>

  <a class="nav-link" href="#" style="text-transform: uppercase;font-size: 25px;color:
#fff;font-weight: 600;font-stretch: normal;font-style: normal;line-height: 1.31;letter-spacing:
normal;padding: 0px 15px;"

    >NEWS-CONFIG</a>
```

```
</div>

<div>

  <button

    class="navbar-toggler"

    type="button"

    data-target="#navbarSupportedContent"

    aria-controls="navbarSupportedContent"

    aria-expanded="false"

    aria-label="Toggle navigation"

  >

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

  </button>

  <div

    class="navbar-collapse justify-content-center collapse"

    id="navbarSupportedContent"

  >

    <ul
```

```
class="navbar-nav d-lg-flex justify-content-between align-items-center"
```

```
>
```

```
<li>
```

```
  <button class="navbar-close">
```

```
    <i class="mdi mdi-close"></i>
```

```
  </button>
```

```
</li>
```

```
<li class="nav-item active">
```

```
  <a class="nav-link" href="/home">Home</a>
```

```
</li>
```

```
{% for category in categories %}
```

```
<li class="nav-item">
```

```
  <a class="nav-link" href="?query={{ category }}">{{ category }}</a>
```

```
</li>
```

```
{% endfor %}
```

```
<!-- <li class="nav-item">
```

```
  <a class="nav-link" href="pages/business.html">Business</a>
```

```
</li>
```

```
<li class="nav-item">
```

```
  <a class="nav-link" href="pages/sports.html">Sports</a>
```

```
</li>
```

```
<li class="nav-item">
```

`Art`

``

`<li class="nav-item">`

`POLITICS`

``

`<li class="nav-item">`

`Travel`

``

`<li class="nav-item">`

`Contact`

` -->`

``

`</div>`

`</div>`

`<!-- <ul class="social-media">`

``

``

`<i class="mdi mdi-facebook"></i>`

``

``

``

``

```
<i class="mdi mdi-youtube"></i>

</a>

</li>

<li>

  <a href="#">

    <i class="mdi mdi-twitter"></i>

    </a>

  </li>

</ul> -->

</div>

</div>

</nav>

</div>

</header>


<!-- partial -->

<!-- <div class="flash-news-banner">

  <div class="container">

    <div class="d-lg-flex align-items-center justify-content-between">

      <div class="d-flex align-items-center">

        <span class="badge badge-dark mr-3">Flash news</span>

        <p class="mb-0">
```

Lorem Ipsum has been the industry's standard dummy text ever
 since the 1500s.

</p>

</div>

<div class="d-flex">

 Wed, March 4, 2020

 30°C,London

</div>

</div>

</div>

</div> -->

<div class="content-wrapper">

 <div class="container">

 <div class="row" data-aos="fade-up">

 <div class="col-xl-8 stretch-card grid-margin">

 <div class="position-relative">

 <img

 src="{{ first_article.urlToImage }}"

 alt="banner"

 class="img-fluid"

/>

<div class="banner-content" style="position: relative;bottom: 30%;">

<!-- <div class="badge badge-danger fs-12 font-weight-bold mb-3">

</div> -->

<h1 class="mb-2">{{ first_article.title }}</h1>

<!-- <h1 class="mb-2">

Coronavirus Outbreak LIVE Updates: ICSE, CBSE Exams

Postponed, 168 Trains

</h1> -->

<div class="fs-12">

Photo

</div>

</div>

</div>

</div>

<div class="col-xl-4 stretch-card grid-margin">

<div class="card bg-dark text-white">

<div class="card-body">

```
<h2>Latest news</h2>
```

```
{% for data in three_articles %}
```

```
<div
```

```
    class="d-flex border-bottom-blue pt-3 pb-4 align-items-center justify-content-
```

```
    between"
```

```
>
```

```
    <div class="pr-3">
```

```
        <h5>{{ data.title }}</h5>
```

```
        <div class="fs-12">
```

```
            <span class="mr-2">Photo </span>
```

```
        </div>
```

```
    </div>
```

```
    <div class="rotate-img">
```

```
        
```

```
    </div>
```

```
</div>
```

```
{% endfor %}
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<div class="row" data-aos="fade-up">
```

```
<div class="col-lg-3 stretch-card grid-margin">
```

```
<div class="card">
```

```
<div class="card-body">
```

```
<h2>Category</h2>
```

```
<ul class="vertical-menu">
```

```
{% for category in NewsCategory %}
```

```
<li><a href="?query={{ category }}">{{ category }}</a></li>
```

```
{% endfor %}
```

```
<!-- <li><a href="?query=International">International</a></li>
```

```
<li><a href="?query=Finance">Finance</a></li>
```

```
<li><a href="?query=Health care">Health care</a></li>
```

```
<li><a href="?query=Technology">Technology</a></li>
```

```
<li><a href="?query=Jobs">Jobs</a></li>
```

Media

Administration

Sports

Game

Art

Kids -->

</div>

</div>

</div>

<div class="col-lg-9 stretch-card grid-margin">

<div class="card">

<div class="card-body">

{% for artcles in data.articles %}

<div class="row">

<div class="col-sm-4 grid-margin">

<div class="position-relative">

<div class="rotate-img">

</div>

<div class="badge-positioned">

 <span class="badge badge-danger font-weight-bold"

 >Breaking news</span

 >

</div>

</div>

</div>

<div class="col-sm-8 grid-margin">

 <h2 class="mb-2 font-weight-600">

 {{ articles.title }}

 </h2>

 <div class="fs-13 mb-2">

 Photo

 </div>

 <p class="mb-0">

 {{ articles.description }}

 </p>

</div>

</div>
```

```
{% endfor %}
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<!-- <div class="row" data-aos="fade-up">
```

```
<div class="col-sm-12 grid-margin">
```

```
<div class="card">
```

```
<div class="card-body">
```

```
<div class="row">
```

```
<div class="col-lg-8">
```

```
<div class="card-title">
```

```
Video
```

```
</div>
```

```
<div class="row">
```

```
<div class="col-sm-6 grid-margin">
```

```
<div class="position-relative">
```

```
<div class="rotate-img">
```

```


</div>

<div class="badge-positioned w-90">

<div

class="d-flex justify-content-between align-items-center"

>

<span

class="badge badge-danger font-weight-bold"

>Lifestyle

>

<div class="video-icon">

<i class="mdi mdi-play"></i>

</div>

</div>

</div>

</div>

</div>

<div class="col-sm-6 grid-margin">

```
<div class="position-relative">

  <div class="rotate-img">

</div>

<div class="badge-positioned w-90">

  <div

    class="d-flex justify-content-between align-items-center"

  >

    <span

      class="badge badge-danger font-weight-bold"

    >National News</span

  >

  <div class="video-icon">

    <i class="mdi mdi-play"></i>

  </div>

</div>

</div>
```



```
</div>
```

```
</div>
```

```
</div>
```

```
<div class="row">
```

```
<div class="col-sm-6 grid-margin">
```

```
<div class="position-relative">
```

```
<div class="rotate-img">
```

```

```

```
</div>
```

```
<div class="badge-positioned w-90">
```

```
<div
```

```
class="d-flex justify-content-between align-items-center"
```

```
>
```

```
<span
```

```
class="badge badge-danger font-weight-bold"
```

```
>Lifestyle</span
```

```
>
```

```
<div class="video-icon">

    <i class="mdi mdi-play"></i>

</div>

</div>

</div>

</div>

</div>
```

```
<div class="col-sm-6 grid-margin">

    <div class="position-relative">

        <div class="rotate-img">

            
```

```
</div>
```

```
<div class="badge-positioned w-90">
```

```
<div
```

```
    class="d-flex justify-content-between align-items-center"
```

```
>
```

```
<span
  class="badge badge-danger font-weight-bold"
  >National News</span
>

<div class="video-icon">

  <i class="mdi mdi-play"></i>

</div>

</div>

</div>

</div>

</div>

</div>

</div>

<div class="col-lg-4">

  <div

    class="d-flex justify-content-between align-items-center"

  >

    <div class="card-title">

      Latest Video

    </div>

    <p class="mb-3">See all</p>

  </div>
```

```
<div
  class="d-flex justify-content-between align-items-center border-bottom pb-2"
>

<div class="div-w-80 mr-3">

  <div class="rotate-img">

</div>

</div>

<h3 class="font-weight-600 mb-0">

  Apple Introduces Apple Watch

</h3>

</div>

<div
  class="d-flex justify-content-between align-items-center border-bottom pt-3 pb-
2"

>

<div class="div-w-80 mr-3">
```

```
<div class="rotate-img">

</div>

</div>

<h3 class="font-weight-600 mb-0">

  SEO Strategy & Google Search

</h3>

</div>

<div

  class="d-flex justify-content-between align-items-center border-bottom pt-3 pb-

2"

>

  <div class="div-w-80 mr-3">

    <div class="rotate-img">

      
```

```

        alt="thumb"

        class="img-fluid"

    />

</div>

</div>

<h3 class="font-weight-600 mb-0">

    Cycling benefit & disadvantag

</h3>

</div>

<div

    class="d-flex justify-content-between align-items-center border-bottom pt-3 pb-

2"

>

    <div class="div-w-80 mr-3">

        <div class="rotate-img">

        </div>

```

</div>

<h3 class="font-weight-600">

The Major Health Benefits of

</h3>

</div>

<div

class="d-flex justify-content-between align-items-center pt-3"

>

<div class="div-w-80 mr-3">

<div class="rotate-img">

</div>

</div>

<h3 class="font-weight-600 mb-0">

Powerful Moments of Peace

</h3>

</div>

```
        </div>

    </div>

</div>

</div>

</div>

</div>

<div class="row" data-aos="fade-up">

    <div class="col-sm-12">

        <div class="card">

            <div class="card-body">

                <div class="row">

                    <div class="col-xl-6">

                        <div class="card-title">

                            Sport light

                        </div>

                    <div class="row">

                        <div class="col-xl-6 col-lg-8 col-sm-6">

                            <div class="rotate-img">

                                <img

                                    src="{{ url_for('static', filename='assets/images/dashboard/home_16.jpg')

                                alt="thumb"
```


class="img-fluid"

/>

</div>

<h2 class="mt-3 text-primary mb-2">

Newsrooms exercise..

</h2>

<p class="fs-13 mb-1 text-muted">

Photo 10 Minutes ago

</p>

<p class="my-3 fs-15">

Lorem Ipsum has been the industry's standard dummy

text ever since the 1500s, when an unknown printer

took

</p>

<a href="#" class="font-weight-600 fs-16 text-dark"

>Read more

</div>

<div class="col-xl-6 col-lg-4 col-sm-6">

<div class="border-bottom pb-3 mb-3">

<h3 class="font-weight-600 mb-0">

Social distancing is ..

</h3>

<p class="fs-13 text-muted mb-0">

Photo 10 Minutes ago

</p>

<p class="mb-0">

 Lorem Ipsum has been the industry's

</p>

</div>

<div class="border-bottom pb-3 mb-3">

<h3 class="font-weight-600 mb-0">

 Panic buying is forcing..

</h3>

<p class="fs-13 text-muted mb-0">

Photo 10 Minutes ago

</p>

<p class="mb-0">

 Lorem Ipsum has been the industry's

</p>

</div>

<div class="border-bottom pb-3 mb-3">

<h3 class="font-weight-600 mb-0">

 Businesses ask hundreds..

</h3>

<p class="fs-13 text-muted mb-0">

Photo 10 Minutes ago

</p>

<p class="mb-0">

 Lorem Ipsum has been the industry's

</p>

</div>

<div>

<h3 class="font-weight-600 mb-0">

 Tesla's California factory..

</h3>

<p class="fs-13 text-muted mb-0">

Photo 10 Minutes ago

</p>

<p class="mb-0">

 Lorem Ipsum has been the industry's

</p>

</div>

</div>

</div>

</div>

```
<div class="col-xl-6">
```

```
<div class="row">
```

```
<div class="col-sm-6">
```

```
<div class="card-title">
```

```
    Sport light
```

```
</div>
```

```
<div class="border-bottom pb-3">
```

```
<div class="rotate-img">
```

```

```

```
<p class="fs-16 font-weight-600 mb-0 mt-3">
```

```
    Kaine: Trump Jr. may have
```

```
</p>
```

```
<p class="fs-13 text-muted mb-0">
```

```
    <span class="mr-2">Photo </span>10 Minutes ago
```

```
</p>
```

```
</div>
```

```
<div class="pt-3 pb-3">

  <div class="rotate-img">

</div>

<p class="fs-16 font-weight-600 mb-0 mt-3">

  Kaine: Trump Jr. may have

</p>

<p class="fs-13 text-muted mb-0">

  <span class="mr-2">Photo </span>10 Minutes ago

</p>

</div>

</div>

<div class="col-sm-6">

  <div class="card-title">

    Celebrity news

  </div>

  <div class="row">
```

```
<div class="col-sm-12">

  <div class="border-bottom pb-3">

    <div class="row">

      <div class="col-sm-5 pr-2">

        <div class="rotate-img">

        </div>

      </div>

      <div class="col-sm-7 pl-2">

        <p class="fs-16 font-weight-600 mb-0">

          Online shopping ..

        </p>

        <p class="fs-13 text-muted mb-0">

          <span class="mr-2">Photo </span>10

          Minutes ago

        </p>

        <p class="mb-0 fs-13">
```

Lorem Ipsum has been

 </p>

 </div>

</div>

</div>

</div>

</div>

<div class="row">

 <div class="col-sm-12">

 <div class="border-bottom pb-3 pt-3">

 <div class="row">

 <div class="col-sm-5 pr-2">

 <div class="rotate-img">

 </div>

 </div>

 <div class="col-sm-7 pl-2">

<p class="fs-16 font-weight-600 mb-0">

Online shopping ..

</p>

<p class="fs-13 text-muted mb-0">

Photo 10

Minutes ago

</p>

<p class="mb-0 fs-13">

Lorem Ipsum has been

</p>

</div>

</div>

</div>

</div>

</div>

<div class="row">

<div class="col-sm-12">

<div class="border-bottom pb-3 pt-3">

<div class="row">

<div class="col-sm-5 pr-2">

<div class="rotate-img">

<img


```
src="{{ url_for('static',
filename='assets/images/dashboard/home_21.jpg') }}"

alt="thumb"

class="img-fluid w-100"

/>

</div>

</div>

<div class="col-sm-7 pl-2">

<p class="fs-16 font-weight-600 mb-0">

Online shopping ..

</p>

<p class="fs-13 text-muted mb-0">

<span class="mr-2">Photo </span>10

Minutes ago

</p>

<p class="mb-0 fs-13">

Lorem Ipsum has been

</p>

</div>

</div>

</div>

</div>
```

</div>

<div class="row">

<div class="col-sm-12">

<div class="pt-3">

<div class="row">

<div class="col-sm-5 pr-2">

<div class="rotate-img">

</div>

</div>

<div class="col-sm-7 pl-2">

<p class="fs-16 font-weight-600 mb-0">

Online shopping ..

</p>

<p class="fs-13 text-muted mb-0">

Photo 10

Minutes ago

</p>

<p class="mb-0 fs-13">

 Lorem Ipsum has been

</p>

</div>

</div>

</div>

</div>

</div>

</div>

</div>

</div>

</div>

</div>

</div>

</div>

</div> -->

</div>

</div>

<!-- main-panel ends -->

<!-- container-scroller ends -->

```
<!-- partial:partials/_footer.html -->

<footer>

<div class="footer-top">

<div class="container">

<div class="row">

<div class="col-sm-5">

<a class="nav-link" href="#" style="text-transform: uppercase;font-size: 25px;color:
#fff;font-weight: 600;font-stretch: normal;font-style: normal;line-height: 1.31;letter-spacing:
normal;padding: 0px 15px;"
>NEWS-CONFIG</a>

<h5 class="font-weight-normal mt-4 mb-5">

News is something everyone must know al over the world, here is
something very helpful website for everyone.

</h5>

<!-- <ul class="social-media mb-3">

<li>

<a href="#">

<i class="mdi mdi-facebook"></i>

</a>

</li>

<li>

<a href="#">
```

```

        <i class="mdi mdi-youtube"></i>

    </a>

</li>

<li>

    <a href="#">

        <i class="mdi mdi-twitter"></i>

    </a>

</li>

</ul> -->

</div>

<!-- <div class="col-sm-4">

<h3 class="font-weight-bold mb-3">RECENT POSTS</h3>

<div class="row">

    <div class="col-sm-12">

        <div class="footer-border-bottom pb-2">

            <div class="row">

                <div class="col-3">

```

</div>

<div class="col-9">

<h5 class="font-weight-600">

Cotton import from USA to soar was American traders

predict

</h5>

</div>

</div>

</div>

</div>

</div>

<div class="row">

<div class="col-sm-12">

<div class="footer-border-bottom pb-2 pt-2">

<div class="row">

<div class="col-3">

</div>

```
<div class="col-9">
```

```
<h5 class="font-weight-600">
```

```
Cotton import from USA to soar was American traders  
predict
```

```
</h5>
```

```
</div>
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</div>
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</div>
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</div>
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</div>
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```
<div class="row">
```

```
<div class="col-sm-12">
```

```
<div>
```

```
<div class="row">
```

```
<div class="col-3">
```

```

```

```
</div>
```

```
<div class="col-9">
```

```
<h5 class="font-weight-600 mb-3">
```

```
    Cotton import from USA to soar was American traders
```

```
    predict
```

```
</h5>
```

```
</div>
```

```
</div>
```

```
</div>
```

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</div>
```

```
</div>
```

```
</div> -->
```

```
<div class="col-sm-3">
```

```
    <h3 class="font-weight-bold mb-3">CATEGORIES</h3>
```

```
    {% for category in categories %}
```

```
        <div class="footer-border-bottom pb-2">
```

```
            <div class="d-flex justify-content-between align-items-center">
```

```
                <a href="?query={{ category }}"><h5 class="mb-0 font-weight-600">{{ category
```

```
                }}</h5></a>
```

```
            <div class="count">1</div>
```

```
        </div>
```

```
    </div>
```

```
{% endfor %}
```

```
<!-- <div class="footer-border-bottom pb-2 pt-2">
```



```
<div class="d-flex justify-content-between align-items-center">
```

```
  <h5 class="mb-0 font-weight-600">Business</h5>
```

```
  <div class="count">1</div>
```

```
</div>
```

```
</div>
```

```
<div class="footer-border-bottom pb-2 pt-2">
```

```
  <div class="d-flex justify-content-between align-items-center">
```

```
    <h5 class="mb-0 font-weight-600">Sports</h5>
```

```
    <div class="count">1</div>
```

```
  </div>
```

```
</div>
```

```
<div class="footer-border-bottom pb-2 pt-2">
```

```
  <div class="d-flex justify-content-between align-items-center">
```

```
    <h5 class="mb-0 font-weight-600">Arts</h5>
```

```
    <div class="count">1</div>
```

```
  </div>
```

```
</div>
```

```
<div class="pt-2">
```

```
  <div class="d-flex justify-content-between align-items-center">
```

```
    <h5 class="mb-0 font-weight-600">Politics</h5>
```

```
    <div class="count">1</div>
```

```
  </div>
```

```
</div> -->

</div>

</div>

</div>

</div>

<div class="footer-bottom">

  <div class="container">

    <div class="row">

      <div class="col-sm-12">

        <div class="d-sm-flex justify-content-between align-items-center">

          <div class="fs-14 font-weight-600">

            © 2022 @ <target="_blank" class="text-white"> </a>News- Config

          </div>

          <!-- <div class="fs-14 font-weight-600">

            Handcrafted by <a href="https://www.bootstrapdash.com/" target="_blank"

class="text-white">BootstrapDash</a>

          </div> -->

        </div>

      </div>

    </div>

  </div>

</div>

</div>
```

</footer>

<!-- partial -->

</div>

</div>

<!-- inject:js -->

<script src="{{ url_for('static', filename='assets/vendors/js/vendor.bundle.base.js')
}}"></script>

<!-- endinject -->

<!-- plugin js for this page -->

<script src="{{ url_for('static', filename='assets/vendors/aos/dist/aos.js/aos.js') }}"></script>

<!-- End plugin js for this page -->

<!-- Custom js for this page-->

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

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

<!-- End custom js for this page-->

</body>

</html>

GitHub

<https://github.com/IBM-EPBL/IBM-Project-39540-1660456586>

Project demo link [https://drive.google.com/file/d/1-](https://drive.google.com/file/d/1-sSe1EOXCKQMtveKjdoPHc_FiezTVAxJ/view?usp=sharing)

[sSe1EOXCKQMtveKjdoPHc_FiezTVAxJ/view?usp=sharing](https://drive.google.com/file/d/1-sSe1EOXCKQMtveKjdoPHc_FiezTVAxJ/view?usp=sharing)