

NEWS TRACKER APPLICATION

PROJECT REPORT

Submitted by

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1. INTRODUCTION

1.1 Project Overview

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 relevant and save your time. This app helps you to query for all information about Indices, Commodities, Currencies, Futures, Rates, Bonds, etc... as on official websites. News Tracker is an application that primarily focuses on enhancing and optimizing the way of user interaction with the news stories. It is more user friendly in a way that a user can personalise his/her own interests in this application. The study process began with how other applications developed with respect to personalisation and giving users a curated content. This step allowed the study analysis identify the disadvantages and make it as advantages in this application. The idea of personalisation is that it keeps track of the user's interests and accordingly change the home page for the users to give them a personalised experience based on what they set as their preferences. The application also has an added advantage that any user using this application might not be able to feel discomfort as there are no advertisements which many applications failed to meet up the expectations of a user. The application stands out off the crowd in terms of personalisation, better search and able to view in multiple languages.

1.2 Purpose

News tracker serves the purpose of delivering a better application to the users and enhanced user experience and user interface. The ultimate purpose is giving the user a personalised application with an ability to better search and this application doesn't function on one language and thus enabling users to use this application worldwide. The users should be displayed with clean, personalised content on the home page with zero advertisements. The need for this project is to deliver news stories without any distractions and getting to see the content only the users like.

2. LITERATURE SURVEY

2.1 Existing Problem

Newspapers were the leading source and first physical source of news for people. Even though the habit of reading newspapers has decreased significantly, the information sector is still alive and well.

Several advancements in the technology sector first enabled smartphones to display latest and updated news on reader's demand. Personalisation of news access should extend beyond 'what' the user sees to 'how' they access it. Popular applications like **Google News**, **BBC** and **DailyHunt** provide personalised and curated content to users. Users select topics to follow and the system generates a news feed for them to read and also provides a summary for each article.

The personalisation news apps can be achieved by making the User Interface adaptable. An adaptable user interface will allow the system to adapt to the way the users read and provide summaries of articles.

Existing System:

Google News:

- Under each headline, the "Full Coverage" button lets users round up coverage from the best news sources on a given topic—something discerning readers value in an era of intense partisanship and concern about biased reporting.
- Ability to subscribe to specific news sources and read them directly from the app.
- Option to purchase premium subscriptions to news outlets.
- Interconnected updates on the latest developments for existing news updates.

2.2 References

- <https://news.google.com>
- <https://www.msn.com/>
- <http://news.yahoo.com/>
- <http://twitter.com/>

2.3 Problem Statement Definition

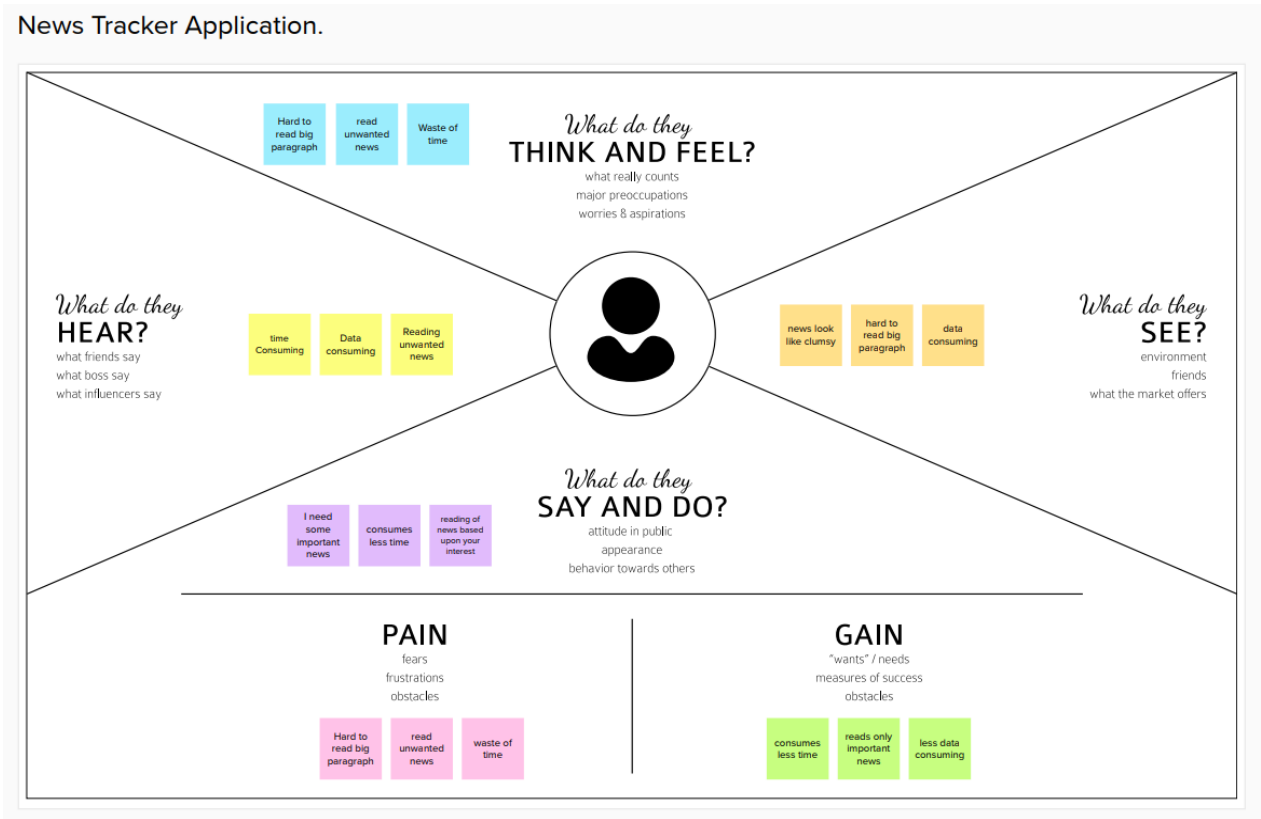
News articles are accessed via smartphones and tablets more now than ever. This has created

a need for providing personalised feed of news articles for users. A recent study by Reuters Institute for the Study of Journalism's Digital News Report said that about 82 percent of Indians read the news online, out of which 73 percent do it on their smartphones.

Curated news feed has been widely used as the tool for sourcing a variety of content from different sources on a report and providing a 360-degree review of the story. The demand for news curation has increased over the years and users look for SMEs to help them find quality and informative content without having to spend much time browsing or scan multiple articles themselves.

3. IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas



3.2 Ideation and Brainstorming

Brainstorm & idea prioritization

Use this template in your team brainstorming sessions to generate ideas, evaluate their feasibility and select the most promising ones to pursue.

- 1. Brainstorm ideas
- 2. Evaluate ideas
- 3. Prioritize ideas

Before you collaborate

Brainstorming sessions are most effective when everyone is present and engaged. To ensure this, please follow these guidelines:

- Brainstorming rules:**
 - Brainstorming sessions are most effective when everyone is present and engaged.
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 - Brainstorming sessions are most effective when everyone is present and engaged.

Define your problem statement

What problem are you trying to solve? Please provide a clear, concise statement of the problem. This will be the focus of your brainstorming.

Problem statement:

As a [role], I [need] to [achieve] [goal] so that [benefit].

Brainstorming rules:

- Brainstorming sessions are most effective when everyone is present and engaged.
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- Brainstorming sessions are most effective when everyone is present and engaged.

Brainstorm

Brainstorm ideas and then evaluate them based on their feasibility and potential impact. Use the following criteria to evaluate your ideas:

Idea	Feasibility	Impact	Effort	Risk
Idea 1	High	High	Low	Low
Idea 2	Medium	Medium	Medium	Medium
Idea 3	Low	Low	High	High
Idea 4	High	Medium	Medium	Low
Idea 5	Medium	High	Low	Medium
Idea 6	Low	High	High	High
Idea 7	High	High	Medium	Low
Idea 8	Medium	Medium	High	Medium
Idea 9	Low	Low	Low	Low
Idea 10	High	Low	Medium	High

Group ideas

Group ideas into clusters based on their feasibility and potential impact. Use the following criteria to evaluate your ideas:

- Feasibility
- Impact
- Effort
- Risk

Prioritize

Prioritize ideas based on their feasibility and potential impact. Use the following criteria to evaluate your ideas:

- Feasibility
- Impact
- Effort
- Risk

After you collaborate

After you collaborate, please provide feedback on the ideas generated. This will help us improve our brainstorming sessions.

Feedback form:

How useful was this session? (1-5)

How clear was the problem statement? (1-5)

How effective was the brainstorming process? (1-5)

How helpful were the ideas generated? (1-5)

How easy was it to participate? (1-5)

How much time was spent on each idea? (1-5)

How much time was spent on each idea? (1-5)

How much time was spent on each idea? (1-5)

3.3 Proposed Solution:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Most people don't like to carry a newspaper with them. Some people want them to be updated only in the area they are interested in.
2.	Idea / Solution description	<ol style="list-style-type: none"> 1) A cloud-based web application which enables the user to get the news as per their interests, choices and location. 2) News will be filtered as per the user's wish and it will be displayed to the user.
3.	Novelty / Uniqueness	<ol style="list-style-type: none"> 1) Integrate the application with news APIs and store the data in the database. 2) This application provides users with a trusted and secured ecosystem. News shared through the application is original and spam free. 3) The database will have all the details and the user can search the news by using a search bar. 4) Detecting fake news.
4.	Social Impact / Customer Satisfaction	<ol style="list-style-type: none"> 1) Since we are using the News API, the news will be reliable and accurate. 2) The customer can be aware of recent happenings. 3) The customer will be finally able to view news without ads.
5.	Business Model (Revenue Model)	The revenue stream can be from the news channels and news sites whose news will be published in this application. Based on the number of users who view a particular news, the news channel that published that news article will have to pay a small amount as commission.

		<ul style="list-style-type: none"> ● Multiplatform Support ● Design consistent experience
6.	Scalability of the Solution	As it was an application-based project, correct ideation and execution can develop an application with no bugs and errors, so that the user might like our application and some might suggest and share it to their surroundings, resulting in an increase in our application insights..

Problem Solution Fit

Project Title: News Tracker Application

Project Design Phase-I - Solution Fit

Team ID: PNT2022TMID04482

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS Working Professionals who doesn't have enough time to read the Newspaper.	6. CUSTOMER CONSTRAINTS CC Time and Budget.	5. AVAILABLE SOLUTIONS AS Newspaper is an alternative to Newstracker Application. Pros: Users no longer need to read the news which they are not interested Cons: Screen time may get increased.	Explore AS, differentiate
	2. JOBS-TO-BE-DONE / PROBLEMS J&P 1. Reading Newspaper is time consuming task. 2. User may read uninterested news. 3. Regular buying of newspaper leads to exorbitant newspaper bills and may be result in unwanted scrap.	9. PROBLEM ROOT CAUSE RC In olden days, User did not have enough internet facilities. So there is no other way than reading a newspaper, To know what's happening around!	7. BEHAVIOUR BE <small>What do users do to address the problem and use the job?</small> User need to follow the below steps: 1. Create an account in our webapp. 2. Login our webapp. 3. Categorize the news according to their interest.	
Identify strong TR & EM	3. TRIGGERS TR User when they see the neighbours stop buying Newspaper and subscribed to News Tracking Application.	10. YOUR SOLUTION SL We made this application is such a way that showing fake news in our application is impossible and we categorize the news according to the user interest which saves time for our busy users	8. CHANNELS of BEHAVIOUR CH 8.1 Online: User can categorize the news according to their interest and get notification 8.2 Offline: User can download the detailed news of the headlines and can read it offline	Identify strong TR & EM
	4. EMOTIONS: BEFORE / AFTER EM Can see news only in television or newspaper > can see news anytime and anywhere just need your mobile phone			

4. REQUIREMENT ANALYSIS

4.1 Functional Requirements:

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 Gmail. Registration through Phone number
FR-2	User Confirmation	Confirmation via Email. Confirmation via OTP.
FR-3	User login	Login through browser directly by entering username and password.
FR-4	Home Page	Search Bar, profile, Menu Bar
FR-5	Profile	Name, Venue, Pin Code, Favourites.
FR-6	Menu Bar	Profile Edit, Categories, Settings, Help, About us.
FR-7	Settings	Notification, Language, Location, Log out
FR-8	User interaction	Done through user interface between client and server View the related news by subscribed or requested page

4.2 Non-functional Requirements:

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

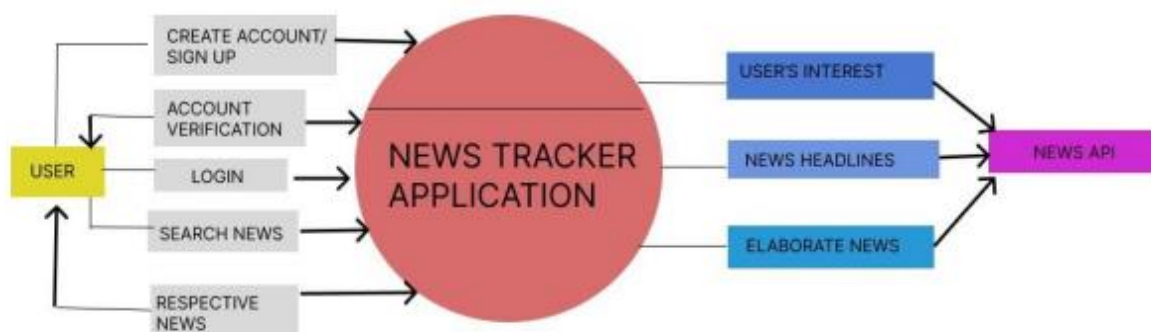
FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Usability contributes to the effectiveness, efficiency and satisfaction in which specified users achieve specified goals.
NFR-2	Security	Security focuses on the software security in mobile app on various platforms such as Android, iOS. They designed and developed to run on frameworks and anticipated set of users.
NFR-3	Reliability	Reliability is the probability of a piece of software operating without any failure while in a specified environment over a period of time.
NFR-4	Performance	Performance of the application is notable through load time, crash report, device information, screening resolution & OS. These metrics are also used for improving the testing process.
NFR-5	Availability	Availability is a measure used to evaluate whether an application is functioning properly & usable to meet the requirements of an individual.
NFR-6	Scalability	Since the entire business runs in cloud, scalability won't be an issue vertically & horizontally there by reducing the overall operational expenditure.

5. PROJECT DESIGN

5.1 Data Flow Diagrams

Data Flow Diagrams:

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

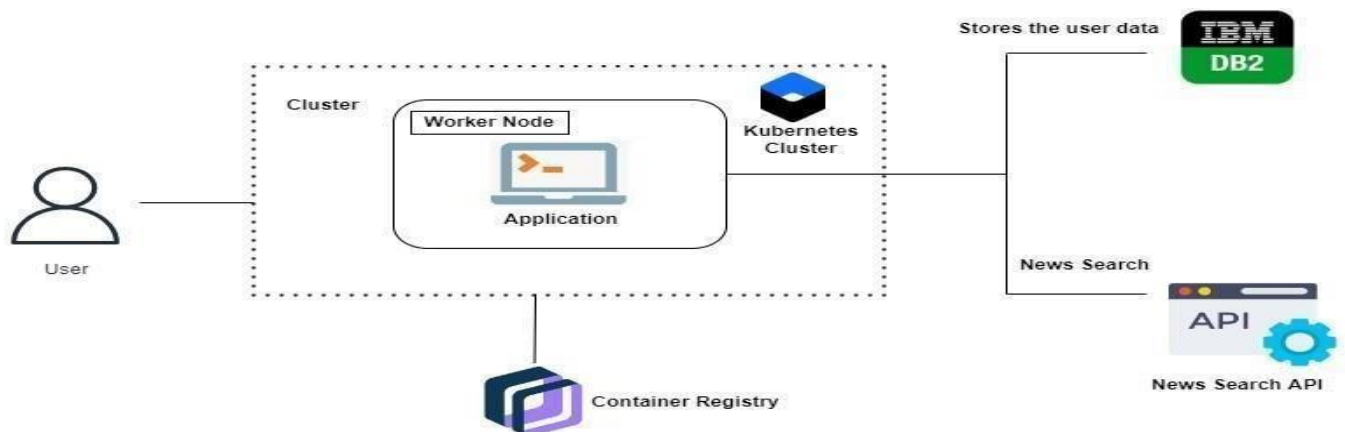


5.2 Solution & Technical Architecture

Solution Architecture: Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.

- Describe the structure, characteristics, behaviour, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements to the project.
- Provide specifications according to which the solution is defined, managed, and delivered to the customers.



Components and Technologies

S. No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript
2.	Application Logic-1	Logic for a process in the application	Java / Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service

4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloud etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
9.	External API-2	Purpose of External API used in the application	Aadhar API, etc.
10.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration:	Local, Cloud Foundry, Kubernetes, etc.

Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Software designed to be publicly accessible in the decentralized and collaborative way.	Technology of Opensource framework
2.	Security Implementations	It is used to provide security for the user by providing various technologies. (i.e. signature for text or data files)	<u>e.g.</u> SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	scalability of architecture (Micro-services)	Cloud, IBM object storage
4.	Availability	Use of cloud makes it available on the go anywhere and any place.	Cloud
5.	Performance	Design consideration is the must because there <u>are</u> numerous app but in what way our app is should be known is mandatory. (<u>speed</u> , number of requests per sec, use of Cache, use of CDN's) etc.	SendGrid

5.3 User Stories

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 receive confirmation email & click confirm.	High	Sprint-1
		USN-2	As a user, I can register the application using phone number.	I can receive verification message to register. (like: registered successfully)	High	Sprint-1
	Login	USN-3	As a user, I can login into the application through email and password.	I can register & access the dashboard by Login into application.	Low	Sprint-2
		USN-4	As a user, I can login into the application through phone number and receiving confirmation message.	I can login by receiving confirming message. (like: login successfully)	Medium	Sprint-2
		USN-5	As a user, I can login into the application by entering email via confirm password & phone number via confirm message.	I can access my account / dashboard.	High	Sprint-2
	Dashboard	USN-6	As a user, I can search news and quick snap is displayed in dashboard.	It can be viewed in user's dashboard.	High	Sprint-2
Customer (Web user)	Alert message via notification	USN-7	As a user, Later, I can receive Frequently searched message via email or SMS.	I can receive email or SMS pop notification	Medium	Sprint-3
	Favorites	USN-8	As a user, I can save the message for later use in favorites.	It can be viewed in favorites.	Medium	Sprint-3
Customer Care Executive	Login information	USN-1	As a user, I can visit the help us to know about the login information.	I can view in help us.	Low	Sprint-4
Administrator	updates	USN-1	As a user, I can get updated NEWS every day and save time by receiving quick snap.	I can view by refreshing the dashboard by getting quick snap.	High	Sprint-4

6.PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation

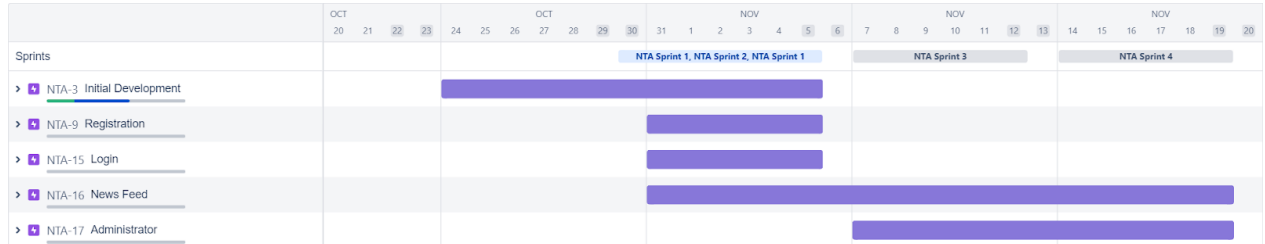
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	10	High	SRI RAAM R V
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	10	High	VISHAL RUPAK V R
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password.	15	High	VIGNESH L
Sprint-2	Input Necessary Details	USN-4	As a user, I can search the news in the application	15	High	VIGNESH S
Sprint-2	Data Pre-processing	USN-5	The application searches for news related to the entered details.	15	High	VIGNESH L
Sprint-3	Searching of news	USN-6	As a user, I can search for the accurate news what I want	20	High	SRI RAAM R V
Sprint-3		USN-7	As a user, I can get accurate news in the application	5	Medium	VISHAL RUPAK V R
Sprint-4	Review	USN-8	As a user, I can give feedback of the application.	20	High	VIGNESH S

Sprint Delivery Schedule

Project Tracker, Velocity & Burndown Chart: (4 Marks)

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

6.2 Reports from JIRA



6. CODING & SOLUTIONING

Home.html

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"
rel="stylesheet"
    integrity="sha384-
1BmE4kWbQ78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous">
    <link rel="stylesheet" href="style.css">
    <title>Home</title>
  </head>
  <body>
    <h3>Welcome {{request.user}}</h3><br><br>
    <a href="/logout"><button>Logout</button></a>
    <h5>Search for a news</h5>
    <form action="/home" method="post">
      {% csrf_token %}
      <input type="search" name="news">
      <button type="submit" role="search">search</button>
    </form>
    {% if articles %}
    <br><h3>Search Results</h3><br>
    <table>
      <tr>
        <th>Headline</th>
        <th>Headline image</th>
        <th>Link to the news</th>
      </tr>
      {% for article in articles %}
      <tr>
        <td>{{article.title}}</td>
```

```

        <td><img src={{article.urlToImage}} alt="{{article.title}}"
width="300" height="300"></td>
        <td><a href="{{article.url}}" target="_blank">Go to news</a></td>
    </tr>
    {% endfor %}
</table>
{% endif %}
</body>
</html>

```

Login.html

```

<!DOCTYPE html>
<html>
    <head>
        <!-- Design by foolishdeveloper.com -->
        <title>login</title>

        <link rel="preconnect" href="https://fonts.gstatic.com">
        <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.15.4/css/all.min.css">
        <link
href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;500;600&display=swap"
rel="stylesheet">
        <!--Stylesheet-->
        <style media="screen">
            *,
            *:before,
            *:after{
                padding: 0;
                margin: 0;
                box-sizing: border-box;
            }
            body{
                background-color: #080710;
            }
            .background{
                width: 430px;
                height: 520px;
                position: absolute;
                transform: translate(-50%,-50%);
                left: 50%;
                top: 50%;
            }
            .background .shape{

```

```

    height: 200px;
    width: 200px;
    position: absolute;
    border-radius: 50%;
}
.shape:first-child{
    background: linear-gradient(
        #1845ad,
        #23a2f6
    );
    left: -80px;
    top: -80px;
}
.shape:last-child{
    background: linear-gradient(
        to right,
        #ff512f,
        #f09819
    );
    right: -30px;
    bottom: -80px;
}
form{
    height: 520px;
    width: 400px;
    background-color: rgba(255,255,255,0.13);
    position: absolute;
    transform: translate(-50%,-50%);
    top: 50%;
    left: 50%;
    border-radius: 10px;
    backdrop-filter: blur(10px);
    border: 2px solid rgba(255,255,255,0.1);
    box-shadow: 0 0 40px rgba(8,7,16,0.6);
    padding: 50px 35px;
}
form *{
    font-family: 'Poppins',sans-serif;
    color: #ffffff;
    letter-spacing: 0.5px;
    outline: none;
    border: none;
}
form h3{
    font-size: 32px;
    font-weight: 500;
    line-height: 42px;
    text-align: center;
}

label{
    display: block;

```

```
        margin-top: 30px;
        font-size: 16px;
        font-weight: 500;
    }
    input{
        display: block;
        height: 50px;
        width: 100%;
        background-color: rgba(255,255,255,0.07);
        border-radius: 3px;
        padding: 0 10px;
        margin-top: 8px;
        font-size: 14px;
        font-weight: 300;
    }
    ::placeholder{
        color: #e5e5e5;
    }
    button{
        margin-top: 50px;
        width: 100%;
        background-color: #ffffff;
        color: #080710;
        padding: 15px 0;
        font-size: 18px;
        font-weight: 600;
        border-radius: 5px;
        cursor: pointer;
    }
    .social{
        margin-top: 10px;
        display: flex;
    }
    .social div{
        background: red;
        width: 150px;
        border-radius: 3px;
        padding: 5px 10px 10px 5px;
        background-color: rgba(255,255,255,0.27);
        color: #eaf0fb;
        text-align: center;
    }
    .social div:hover{
        background-color: rgba(255,255,255,0.47);
    }
    .social .fb{
        margin-left: 25px;
    }
    .social i{
        margin-right: 4px;
    }
}
```

```

        </style>
    </head>
    <body>
        <div class="background">
            <div class="shape"></div>
            <div class="shape"></div>
        </div>
        {% if message %}
            <p>{{message}}</p>
        {% endif %}
        <form method="post" action="/api/login">
            <h3>Login Here</h3>
            {% csrf_token %}
            <label for="username">Username</label>
            <input type="text" name="username"
maxlength="20" id="username" required placeholder="Username" ><br>
            <label for="password">Password</label>
            <input type="password" name="password"
id="password" placeholder="Password" required><br>
            <a href="/register" style="color: blue;">Create an account</a>
            <button>Log In</button>
        </form>
        <!-- <h3 style="color: red;">{% if message %}{{message}}{% endif %}</h3> -->
    </body>
</html>

```

Views.py

```

from django.shortcuts import render, redirect
from django.contrib.auth.decorators import login_required
from newsapi import NewsApiClient
from django.contrib.auth import logout

def register(request):
    return render(request, "register.html")

def login(request):
    return render(request, "login.html")

@login_required
def home(request):
    print(request.user)
    if request.method == "POST":
        newsapi = NewsApiClient(api_key="")
        # articles =
newsapi.get_top_headlines(q=request.POST["news"], language="en", country="in")
        articles = newsapi.get_everything(q=request.POST["news"],
                                         language='en',
                                         sort_by='relevancy',
                                         page=2)

        data = {"articles": articles['articles'], "title" : "News related to
%s"%(request.POST["news"])}
        # print(data)

```

```

        return render(request, "h.html", data)
    newsapi = NewsApiClient(api_key="6b076c8833b64a37b755b2a42e2d5d7a")
    articles = newsapi.get_top_headlines( category='business',
                                          language='en',
                                          country='us')

    data = {"articles": articles['articles'], "title" : "Headlines"}
    return render(request, "h.html", data)

@login_required
def logout_user(request):
    logout(request)
    return redirect('/login')

```

Urls.py

```

from django import views
from django.contrib import admin
from django.urls import path, include
from . import views
from django.shortcuts import redirect

urlpatterns = [
    path('', views.login),
    path('admin/', admin.site.urls),
    path('api/', include('api.urls')),
    path('register', views.register),
    path('login', views.login),
    path('home', views.home),
    path('logout', views.logout_user),
]

```

Register.html

```

<!DOCTYPE html>
<html>
    <head>
        <!-- Design by foolishdeveloper.com -->
        <title>Registration</title>

        <link rel="preconnect" href="https://fonts.gstatic.com">
        <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.15.4/css/all.min.css">
        <link
href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;500;600&display=swap"
rel="stylesheet">

```

```
<!--Stylesheet-->
<style media="screen">
    *,
    *:before,
    *:after{
        padding: 0;
        margin: 0;
        box-sizing: border-box;
    }
    body{
        background-color: #080710;
    }
    .background{
        width: 430px;
        height: 520px;
        position: absolute;
        transform: translate(-50%,-50%);
        left: 50%;
        top: 50%;
    }
    .background .shape{
        height: 200px;
        width: 200px;
        position: absolute;
        border-radius: 50%;
    }
    .shape:first-child{
        background: linear-gradient(
            #1845ad,
            #23a2f6
        );
        left: -80px;
        top: -80px;
    }
    .shape:last-child{
        background: linear-gradient(
            to right,
            #ff512f,
            #f09819
        );
        right: -30px;
        bottom: -80px;
    }
    form{
        height: 820px;
        width: 400px;
        background-color: rgba(255,255,255,0.13);
        position: absolute;
        transform: translate(-50%,-50%);
        top: 50%;
        left: 50%;
        border-radius: 10px;
```

```
    backdrop-filter: blur(10px);
    border: 2px solid rgba(255,255,255,0.1);
    box-shadow: 0 0 40px rgba(8,7,16,0.6);
    padding: 50px 35px;
}
form *{
    font-family: 'Poppins',sans-serif;
    color: #ffffff;
    letter-spacing: 0.5px;
    outline: none;
    border: none;
}
form h3{
    font-size: 32px;
    font-weight: 500;
    line-height: 42px;
    text-align: center;
}

label{
    display: block;
    margin-top: 30px;
    font-size: 16px;
    font-weight: 500;
}
input{
    display: block;
    height: 35px;
    width: 100%;
    background-color: rgba(255,255,255,0.07);
    border-radius: 3px;
    padding: 0 10px;
    margin-top: 8px;
    font-size: 14px;
    font-weight: 300;
}
::placeholder{
    color: #e5e5e5;
}
button{
    margin-top: 50px;
    width: 100%;
    background-color: #ffffff;
    color: #080710;
    padding: 15px 0;
    font-size: 18px;
    font-weight: 600;
    border-radius: 5px;
    cursor: pointer;
}
.social{
    margin-top: 30px;
```



```

        display: flex;
    }
    .social div{
        background: red;
        width: 150px;
        border-radius: 3px;
        padding: 5px 10px 10px 5px;
        background-color: rgba(255,255,255,0.27);
        color: #eaf0fb;
        text-align: center;
    }
    .social div:hover{
        background-color: rgba(255,255,255,0.47);
    }
    .social .fb{
        margin-left: 25px;
    }
    .social i{
        margin-right: 4px;
    }

</style>
</head>
<body>
    <div class="background">
        <div class="shape"></div>
        <div class="shape"></div>
    </div>
    <form method="post" action="/api/register">
        {% csrf_token %}
        <h3>Register Here</h3>
        <label for="username">Username</label>
        <input type="text" name="username" maxlength="20" required><br>
        <label for="password">Password</label>
        <input type="password" name="password" required><br>
        <label for="email">Email</label>
        <input type="email" name="email" required><br>
        <label for="username">Firstname</label>
        <input type="text" name="firstname" maxlength="20" required><br>
        <label for="username">Lastname</label>
        <input type="text" name="lastname" maxlength="20" required><br>
        <label for="username">Phone Number</label>
        <input type="text" name="phone_number" maxlength="10" required><br>
        <button>Register</button>
    </form>
</body>
</html>

```

Home page content coding

```

<!DOCTYPE html>
<html>

```

```

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"
rel="stylesheet"
      integrity="sha384-
1BmE4kWBq78iYhF1dvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous">
  <!-- <link rel="stylesheet" href="style.css"> -->
  <style>
    .navbar-nav > li{
      padding-left:30px;
      padding-right:40px;
    }

    #newsQuery {
      width: 350px;
    }

    .card {
      padding-left: 10px;
      padding-right: 10px;
    }

    tr{
      padding-left: 30px;
      padding-right: 30px;
    }
  </style>
  <title>Home</title>
</head>

<body class="m-0 p-0">

  <div class="container-fluid m-0 p-0">

    <!-- navbar -->
    <div>
      <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
        <div class="container-fluid">
          <h3><span class="text-warning"><i>NEWS</i></span></h3>
          <!--  -->
          <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
            data-bs-target="#navbarSupportedContent" aria-
controls="navbarSupportedContent"
            aria-expanded="false" aria-label="Toggle navigation">
            <span class="navbar-toggler-icon"></span>
          </button>
          <div class="collapse navbar-collapse" id="navbarSupportedContent">
            <ul class="navbar-nav me-auto mb-2 mb-lg-0">
              <li class="nav-item">
                </li>
              <li class="nav-item">

```

```

        <span></span>
    </li>
    <li class="nav-item">

    </li>
    <li class="nav-item">
        <form action="/home" method="post" class="d-flex">
            {% csrf_token %}
            <input type="search" name="news" class="form-control me-4" id="newsQuery" placeholder="Search news">
            <button type="submit" role="search" class="btn btn-outline-warning" id="searchBtn">search</button>
        </form>
    </li>
    <li class="nav-item">
    </li>
    <li class="nav-item">
    </li>
    <li class="nav-item">
    </li>
    <li class="nav-item">
    </li>
    </li>
    <li class="nav-item">
    </li>
    <li class="nav-item">
    </li>
    <li class="nav-item">
    </li>
    <li class="nav-item">
        <a href="/logout"><button class="btn btn-outline-primary">Logout</button></a>
    </li>
</ul>
</div>
</div>
</nav>
</div><br>
<p class="h1" style="text-align: center ;">{{title}}</p>

<!-- News -->
<div>
    {% if articles %}

<div class="row m-3" id="newsType">
    <table style="text-align:center;">

<div class="row me-2 ms-2" id="newsdetails">
    {% for article in articles %}
        <tr>
            <!-- <td>{{article.title}}</td>
            <td><img src={{article.urlToImage}} alt="{{article.title}}"
width="300" height="300"></td>

```

```

        <td><a href="{{article.url}}" target="_blank">Go to news</a></td> -->
        <div class="card" style="width: 18rem;">
            
            <div class="card-body">
                <h5 class="card-title">{{article.title}}</h5>
                <p class="card-text">{{article.description}}</p>
                <a href="{{article.url}}" target="_blank" class="btn btn-
primary">Go to News</a>
            </div>
        </div>
    </tr>
    {% endfor %}
</table>
</div>
</div>
    {% endif %}
</div>

<!-- footer -->
<!-- <div class="mt-5">
    <div>
        <nav class="navbar navbar-expand-lg navbar-dark bg-dark mt-4">
            <div class="container-fluid m-0 p-0">
                <h5 class="text-white me-auto ms-auto">Code<span class="text-
warning">Logic</span></h5>
            </div>
        </nav>
    </div>
</div>

    </div> -->
</body>
</html>

```

Output

A screenshot of a web browser displaying a registration form titled "Register Here". The form is centered on a dark background with large blue and orange circles. The form fields are as follows:

- Username**:
- Password**:
- Email**:
- Firstname**:
- Lastname**:
- Phone Number**:

The browser's address bar shows "Not secure | 159.122.181.233:31111/register". The taskbar at the bottom shows the system time as 09:42 AM on 21-11-2022.

A screenshot of a web browser displaying a login form titled "Login Here". The form is centered on a dark background with large blue and orange circles. The form fields are as follows:

- Username**:
- Password**:

Below the password field, there is a link: [Create an account](#). At the bottom of the form is a "Log In" button.

The browser's address bar shows "Not secure | 159.122.181.233:31111". The taskbar at the bottom shows the system time as 09:41 AM on 21-11-2022.

2000s Super Hit Love Songs

(no subject) - vishalrupakr.19cs

Home

Not secure | 159.122.181.233:31111/home

GmailYouTubeMapsNewsTranslateFace prepfrndsprint 1IBM-Project-39472...chproject_report.docx...


NEWS

Search news

search

Logout


News related to food



Russia says it renewed demands over fertiliser exports at U.N. talks - Reuters.com

Russia on Saturday restated its insistence on unhindered access to world markets for its food and fertiliser exports after what it called a "thorough exchange of views" with U.N. officials the day before in Geneva.


Go to News



India's Zomato posts smaller quarterly net loss as online orders jump - Reuters

Indian food delivery firm Zomato Ltd (ZOMT.NS) reported a smaller second-quarter loss on Thursday, helped by a sustained rise in online ordering.


Go to News



VIEW Canada annual inflation rate holds steady at 6.9% in October - Reuters.com

Canada's annual inflation rate held steady at 6.9% in October, matching analyst forecasts, as higher gasoline prices and mortgage interest costs offset a slight easing of food prices, Statistics Canada data showed on Wednesday.


Go to News



EXCLUSIVE Russia seeks sanctions exemptions for state bank in Ukraine grain deal talks-sources - Reuters

Russia wants the West to ease restrictions on state agriculture lender Rosselkhozbank to facilitate Russian grain exports, according to four sources familiar with the request, made during talks to extend a deal on food shipments from Ukraine.

Go to News




Two thirds of South Sudan population risk severe hunger in 2023 - U.N. - Reuters.com

Up to 7.8 million people in South Sudan, two thirds of the population, may face severe food shortages during next year's April-to-July lean season due to floods, drought and conflict, United Nations agencies said on Thursday.

Go to News

31°C Sunny



ENG INTL 02:53 PM 21-11-2022

Certificate ver: portal.kongu Firewall Auth: New Tab New Tab IBM New Tab (2) WhatsApp Home

Not secure | 159.122.181.233:31111/home

GmailYouTubeMapsNewsTranslateFace prepfrndsprint 1IBM-Project-39472...chproject_report.docx...


NEWS

Search news

search

Logout


Headlines



S&P 500 futures fall slightly ahead of more retail earnings before the Thanksgiving holiday - CNBC

The major averages each posted an up day on Friday but ended lower on a weekly basis.


Go to News



Asia-Pacific markets set to inch higher ahead of China's lending rate decision - CNBC

Shares in the Asia-Pacific rose on Monday as analysts expect China's central bank to keep its benchmark lending rates, or loan prime rates, on hold.


Go to News



Cryptocurrency exchange FTX owes more than \$3 billion to creditors - Fox Business


Cryptocurrency exchange FTX, which filed for bankruptcy protection last week, said in a court filing that it owes its 50 largest creditors more than \$3 billion.

Go to News



Who is Caroline Ellison and how did she end up at center of FTX collapse? - Fox Business

The collapse of Sam Bankman-Fried's cryptocurrency exchange FTX has led to an increased focus on the role played by Alameda Research and its CEO Caroline Ellison in the firm's implosion.




Tesla recalls over 321000 vehicles due to taillight software issue - The Verge

Tesla recalled more than 321,000 Model 3 and Model Y vehicles due to a software issue causing the taillights to illuminate improperly.

Go to News

24°C Sunny



ENG INTL 09:43 AM 21-11-2022

8.ADVANTAGES & DISADVANTAGES

Advantages

- The user's are able to keep track of their favourite sources, categories or authors with a few clicks
- The search bar allows the user to query results based on a large number of options and combinations
- Chatbot integration for assistance in account creation and preference setting
- Multiple categories and endless articles fetched using newsapi

Disadvantages

- Since the news articles are fetch from an external API, the validity of the data cannot be guaranteed
- Users have to give accurate keywords to search for results

9.CONCLUSION

With the help of the internet and external application programming interfaces, it is possible to keep the users informed of the current affairs. With a vast database of articles and references, users are even encouraged to read more.

As news is increasingly accessed on smartphones and tablets, the need for personalising news app interactions is apparent. Users' demands and requirements for personalisation increases day by day. The application's personalisation feature will attract users to spend more time browsing through articles.

And finally, the search bar, will help readers located certain articles based on multiple filters like date, source, language and author to give the users a better user experience.

10.FUTURE SCOPE

- Provide filter options for user's to track articles
- Modification and deletion of preferences
- Location based rendering of articles
- Allowing users to report falsified and misleading information

11.APPENDIX

GitHub Link: <https://github.com/IBM-EPBL/IBM-Project-25995-1659979226>

Demonstration video link:

https://drive.google.com/file/d/1JsPgLrG7GBw3f8oPJfKqBV_iMDP2IgqO/view?usp=sharing