

A PROJECT REPORT

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NEWS TRACKER APPLICATION

Team id	PNT2022TMID34452
Project Name	News Tracker Application
Team Members	G.Lauro Shajina - 961819104052 T.Sahaya Kowsalya - 961818104074 A.Supriya - 961819104085 S.Aarthya - 961819104001

1.INTRODUCTION

1.1 Project Overview

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

News application are windows into the data behind a story .They might be searchable database sleek visualizations are something else together. But no matter what from they take a news apps encourage readers to interact with data in a content that is meaningful to them looking up crime trends in their area checking the safety records of their local doctor or searching political contribution to their candidate of choice.

1.2 Purpose

As our lives are very busy these days, we often feel we need more than 24 hours .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 are interested in and get a quick peek for the day. only read what you feel is relevent and save your time. This app helps you to query for all information about indices, currencies, future rates, bonds, etc...

2.LITERATURE SURVEY

2.1 Existing problem

In the next step collected literature was analysed and synthesized. Firstly, the articles were investigated with respect to the research methodologies they apply .For this purpose, consolidated spectrum of research methodologies in information system was adopted .Secondly the articles could be categorized as concentrating on technological, privacy and commercial aspects .Articles with focus on technological aspects mainly present how web tracking and anti-web tracking techniques work. The works concentrating on privacy. The papers oriented on commercial aspects survey the effectiveness of personalized advertising.

2.2 Reference

<https://www.adjust.com/blog/how-to-build-a-news-app/>

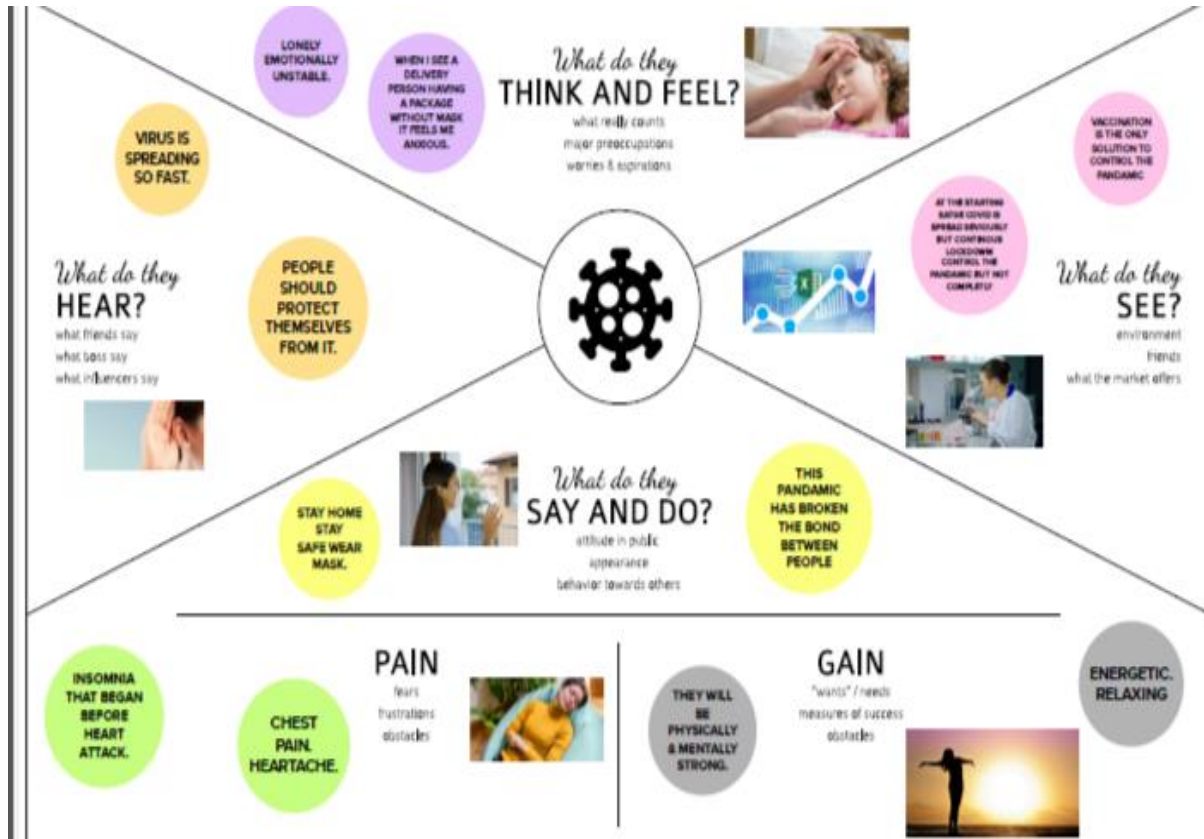
http://www.researchgate.net/figure/Workflow-of-the-Newstracker-application-illustrating-the-two-main-phase-data_fig_318902178

2.3 Problem Statement Definition

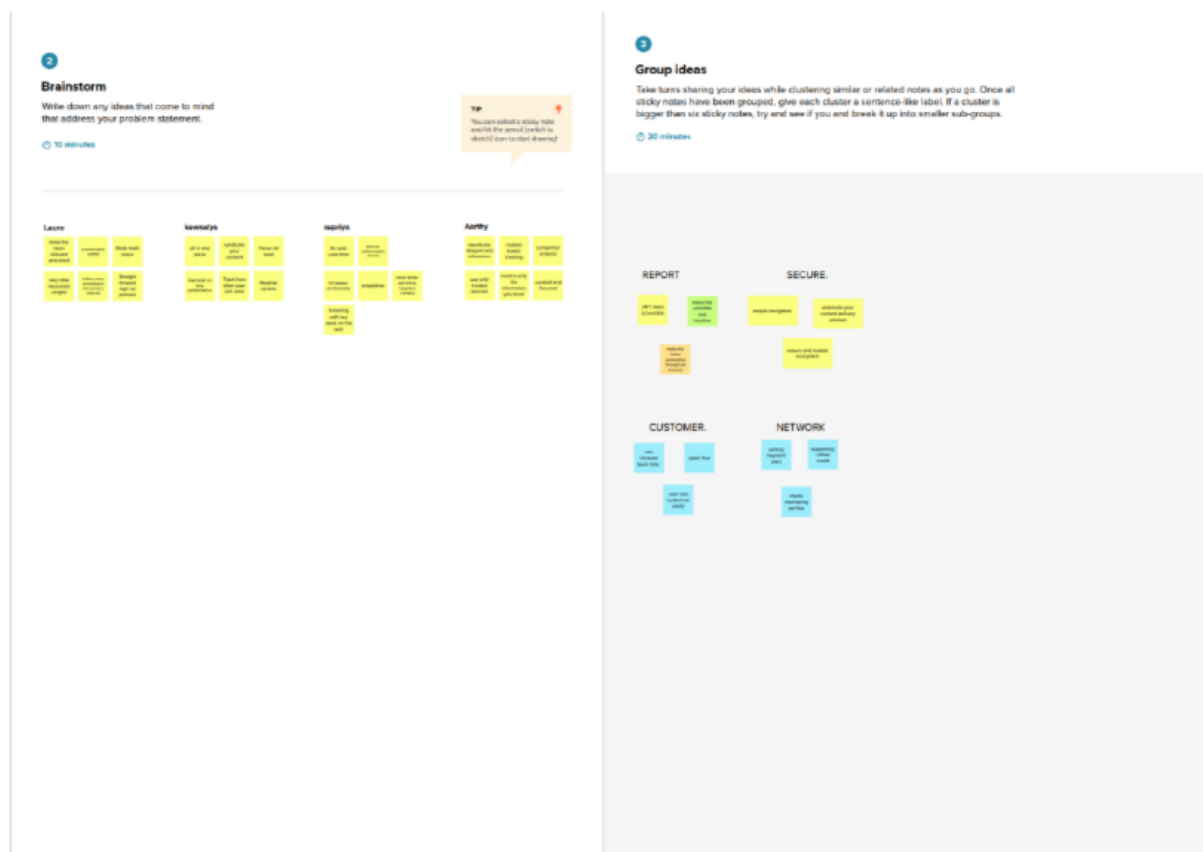
Vijay is a busy business man who needs to read news on the go without any hassles while travelling because he considers carrying around a physical news paper a nuisance to him and the people around him. Vijay needs to read to read news in such a way that he doesn't have to worry about ever buying physical newspaper or carrying with him everywhere something which should fit in the palm of his hands which he could carry everywhere access from everywhere something digital such as an application hosted on the internet which could be accessed from any device that is connected to the internet such as smartphones and computers. ccxz

3.IDEATION & PROPOSED SOLUTION

3.1 Empathy Map canvas



3.2 Ideation & Brainstorming



3.2 Proposed Solution

The way we consume news has shifted dramatically in the last decade and having a dedicated website is no longer enough. Users expect updates to be immediately available and accessible via multiple devices, and easy to share across their social media networks. News apps have also become increasingly important for users who want to avoid consuming news via social media and digest news from a reliable source. In this article we outline the significant

benefits to developing a news app in 2020 how to begin this process and best practices for optimal result.

3.3 Proposed Solution Fit

1. CUSTOMER SEGMENT(S) <small>CS</small> The user is not able to identify the valuable news or valuable news application to manage their schedule.	6. CUSTOMER LIMITATIONS <small>CL</small> <small>EG. BUDGET, DEVICES</small> Since it is a mobile application user need to have smart phones with proper internet connection.	5. AVAILABLE SOLUTIONS <small>AS</small> <small>WAYS & CODES</small> Since we provide short and crisp news user time is saved. User will get latest news, trending news of the day, based on the city, country and location user will get news.
2. PROBLEMS / PAINS <small>PR</small> <small>ITS FREQUENCY</small> In other existing application users need to face issues like they haven't getting proper news, subscribe to get news and getting unnecessary advertisement exist in the application.	9. PROBLEM ROOT / CAUSE <small>RC</small> User are not getting relevant news, user time is not saved and they can't able to manage their schedule in their daily life.	7. BEHAVIOR <small>BE</small> <small>ITS INTENSITY</small> In this application user will get world wide news and various types of news.
3. TRIGGERS TO ACT <small>TR</small> In our application user's can able to choose personalization feature for news like interested topic category, showing estimated reading time, according to their language they can get news, and they can use filter option for news.	10. YOUR SOLUTION <small>SL</small> In the context of changing the conventional reading method. We will aware of knowing the interested and uninterested topic of the user to which user will get relevant content what they need by providing the news feed feature which contain quick short news where users time is saved. As we are using IBM CLOUD so as users increasing automatically the storage will scale up. Designing the app by using feasible tech stack.	8. CHANNELS of BEHAVIOR <small>CH</small> <small>ONLINE</small> This application is ubiquity one users can able to access their news any time and any where.
4. EMOTIONS <small>EM</small> <small>BEFORE / AFTER</small> If user face any drastic incident in their life user need to manage that situation like basic life support. That feature is available in our application.		

4. REQUIREMENT ANALYSIS

4.1 Functional requirements

Functional requirements define what a software system should do. It defines a function of a software system or its module. Functionality is measured as a set of input to the system under test to the output from the system. Functional requirement implementation in a system is planned in the system design phase where as in case of non functional requirement it is planned in the system architecture document. The functional requirement support generating the non functional requirement.

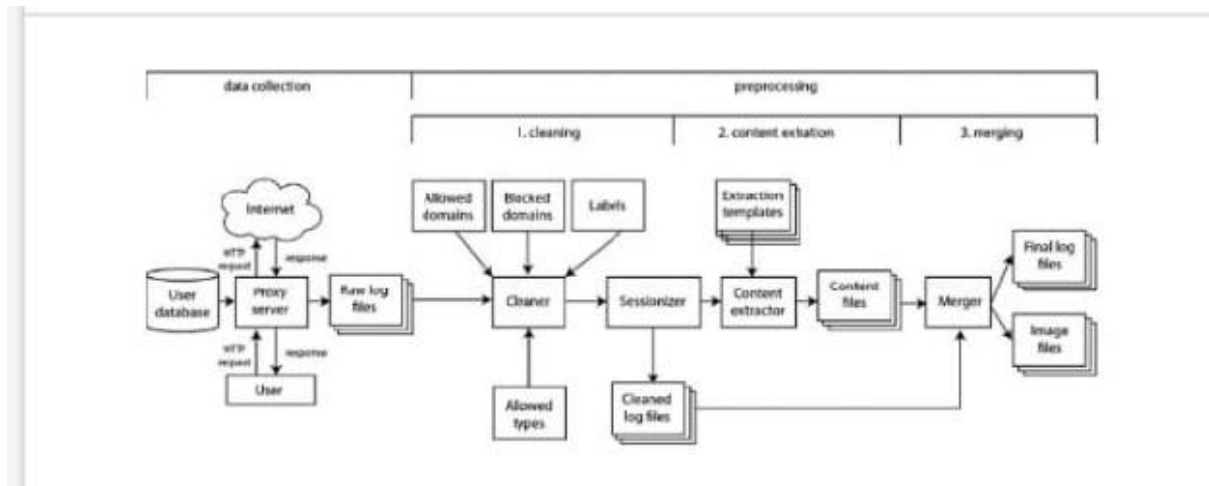
4.2 Non Functional requirement

The non functional requirements say about what a system should be rather than what a system should do functional requirement. They are mostly derived from functional requirement based on input from the customer and other stakeholders. Non functional requirement implementation details are documented in the system architecture document. Non functional requirements explain the quality aspects of the system to be constructed viz performance

usability etc. Non functional requirement are implemented incrementally in any system.

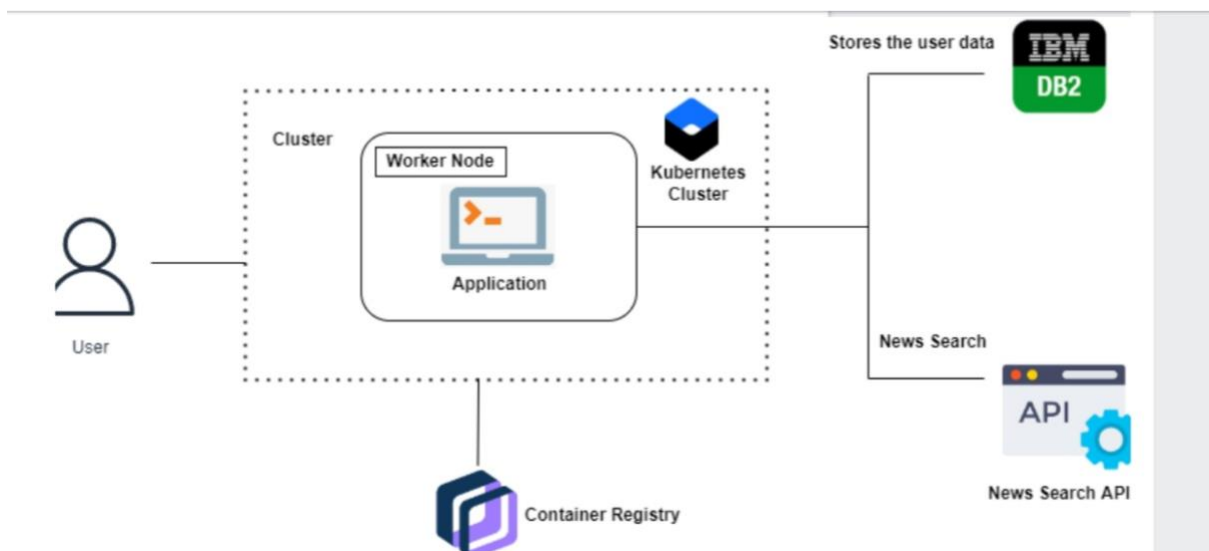
5.PROJECT DESIGN

5.1 Data Flow Diagram



5.2 Solution & Technical Architecture

careereducation.smartintelliz.com



5.3 User Stories

Use the below templates 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,	I can access my account / dashboard	High	Sprint 1

			and confirming my password.			
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail	I can register by entering the details	Medium	Sprint 1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can access my dashboard	High	Sprint 1
	Dashboard	USN-6	As a user ,I can log into the dashboard and manage income	I can access my account / dashboard	High	Sprint 1
Customer (Web user)		USN-7	As a user, I can register for the application by Bank account.	I can access my account / dashboard	High	Sprint 1
Customer Care Executive		USN-8	As a user, I can get a report is	I can manage my money by	Medium	Sprint 1

			based on the details	viewing this report		
		USN-9	As a user, I can get an email if the money level is above the limit	I can receive alert email	High	Sprint 1
Administrative	Responsibility	USN-10	As a system administrator ,track the user expenses anytime	I can track expense	High	Sprint 1

6.PROJECT PLANNING & SCHEDULING

6.1Sprint Planning & Estimation

Sprint	Functional Requirement(Epic)	User Story Number	Use Story/Task	Story Points	Priority	Team Members
Sprint -1	Registration	USN-1	As a user I can register for the application by entering my name,password and confirming my password	4	High	Lauro Shajina .G (Leader)
Sprint -1	Login	USN-2	As a user I will receive Confirmation password once I have registration for the application	3	High	Supriya.S (member 2)
Sprint -2	Verification	USN-3	As a user,I can enter my details check the details correct or wrong	10	Medium	Sahaya Kowsalya.T (member 1)
Sprint -3	Dashboard	USN-4	Appllicaton can provide the breaking news and trending news	7	Low	Aarthy.S(member 3)

Sprint-4	Acceptance	USN-5	User can accept their search correct	10	Medium	Lauro Shajina.G (Leader)
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			news			
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Sprint	Functional Requirement(Epic)	User Story Number	User Story/Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a receiver I can register for the application by entering my name,password confirming my password	4	High	Aarthy.S (member 3)
Sprint-1	Login	USN-2	Registered receiver can log into the application by entering receiver name and password	3	High	Sahaya Kowsalya.T (member 1)
Sprint-2	Verification	USN-3	As a receiver I can enter my details to check correct or wrong	10	Medium	Supriya.S(member 2)

Sprint-3	Dashboard	USN-4	User can search the list of news	7	Low	Lauro Shajina.G(leader)
Sprint-4	Access	USN-5	User can access the available news then they can choose the news which is breaking news	10	Medium	Aarthy.S(member 3)
Sprint-1	Registration	USN-1	Third party user can register for the application by entering my name	3	High	Supriya.S(member2)

			password and confirming my password			
Sprint-1	Login	USN-2	Register user can log into the application by entering name and password	3	High	Sahaya Kowsalya.T(member 1)
Sprint-3	Query System	USN-3	User can ask their queries via chabot which is available 24/7 to sort user issues	6	Medium	Lauro Shajina.G(leader)

6.2 Sprint Delivery Schedule

Sprint	Total story points	Duration	Sprint start date	Sprint end date (planned)	Story point completed(as on planned end date)	Sprint release date(actual)
Sprint-1	20	6 days	24Oct2022	29Oct2022	20	29 Oct2022
Sprint-2	20	6 days	31Oct2022	05Nov2022	18	06Nov2022
Sprint-3	20	6 days	07Nov2022	12Nov2022	15	14Nov2022
Sprint-4	20	6 days	14Nov2022	19Nov2022	19	21Nov2022

7.Coding and Solutioning

7.1 Features

Features 1: Add Expense

Features 1: Update expense

Features 3: Delete Expense

Features 4: Set Limit

Features 5: Send Alert Email to user

7.2 Other Features:

Track your expense any where any time seamlessly manage your money and budget without any financial paperwork .Just click submit your invoice and expenditures. Access submit and improve invoices irrespective of time and location. Avoid search news and touch the link user get the news. Quick response of the news app and reduced the error of the news.

Codes:

```
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import re
app = Flask(__name__)
hostname = '19af6446-6171-4641-8aba-
9dcff8e1b6ff.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud'
uid = 'sfr69790'
pwd = 'VFRS0bFKFelhMbcq'
driver = "{IBM DB2 ODBC DRIVER}"
db_name = 'Bludb'
port = '30699'
protocol = 'TCPIP'
cert = "C:/Users/Prithiarun/Desktop/IBM/TEST/certi.crt"
dsn = (
"DATABASE={0};"
"HOSTNAME={1};"
"PORT={2};"
"UID={3};"
"SECURITY=SSL;"
"PROTOCOL={4};"
"PWD={6};"
).format(db_name, hostname, port, uid, protocol, cert, pwd)
connection = ibm_db.connect(dsn, "", "")
print()
# query = "SELECT username FROM USER1 WHERE username=?"
# stmt = ibm_db.prepare(connection, query)
# ibm_db.bind_param(stmt, 1, username)
```

```

# ibm_db.execute(stmt)
# username = ibm_db.fetch_assoc(stmt)
# print(username)
app.secret_key = 'a'
@app.route('/', methods=['GET', 'POST'])
@app.route('/register', methods=['GET', 'POST'])
def register():
    msg = " "
    if request.method == 'POST':
        username = request.form['username']
        email_id = request.form['email_id']
        phone_no = request.form['phone_no']
        password = request.form['password']
        query = "SELECT * FROM USER1 WHERE username=?;"
        stmt = ibm_db.prepare(connection, query)
        ibm_db.bind_param(stmt, 1, username)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        if (account):
            msg = "Account already exists!"
        return render_template('register.html', msg=msg)
    # elif not re.match(r'^@]+@[^@]+\.[^@]+', email_id):
    # msg = "Invalid email address"
    # elif not re.match(r'[A-Za-z0-9+', username):
    # msg = "Name must contain only characters and numbers"

```



```

else: query = "INSERT INTO USER1 values(?,?,?)"
stmt = ibm_db.prepare(connection, query)
ibm_db.bind_param(stmt, 1, username)
ibm_db.bind_param(stmt, 2, email_id)
ibm_db.bind_param(stmt, 3, phone_no)
ibm_db.bind_param(stmt, 4, password)
ibm_db.execute(stmt)
msg = 'You have successfully Logged In!!'
return render_template('login.html', msg=msg)
else:
msg = 'PLEASE FILL OUT OF THE FORM'
return render_template('register.html', msg=msg)
@app.route('/login', methods=['GET', 'POST'])
def login():
global userid
msg = ''
if request.method == "POST":
username = request.form['username']
password = request.form['password']
query = "select * from user1 where username=? and password=?"
stmt = ibm_db.prepare(connection, query)
ibm_db.bind_param(stmt, 1, username)
ibm_db.bind_param(stmt, 2, password)
ibm_db.execute(stmt)
account = ibm_db.fetch_assoc(stmt)
print(account)
if account:

```

```

session['Loggedin'] = True
session['id'] = account['USERNAME']
session['username'] = account['USERNAME']
msg = 'Logged in Successfully'
return render_template('welcome.html', msg=msg, username=str.upper(username))
else:
msg = 'Incorrect Username or Password'
return render_template('login.html', msg=msg)
else:
msg = 'PLEASE FILL OUT OF THE FORM'
return render_template('login.html', msg=msg)
@app.route('/welcome', methods=['GET', 'POST'])
def welcome():
if request.method == 'POST':
username = request.form['username']
print(username)
return render_template('welcome.html', username=username)
else:
return render_template('welcome.html', username=username)
if __name__ == "__main__":
app.run(debug=True)
app.run(host='0.0.0.0')

```

The other code features are submitted in github: refer the link 'github'

8 TESTING:

8.1 Testing:

- Login page
- Register page
- Dashboard

9 RESULT

9.1 Login page



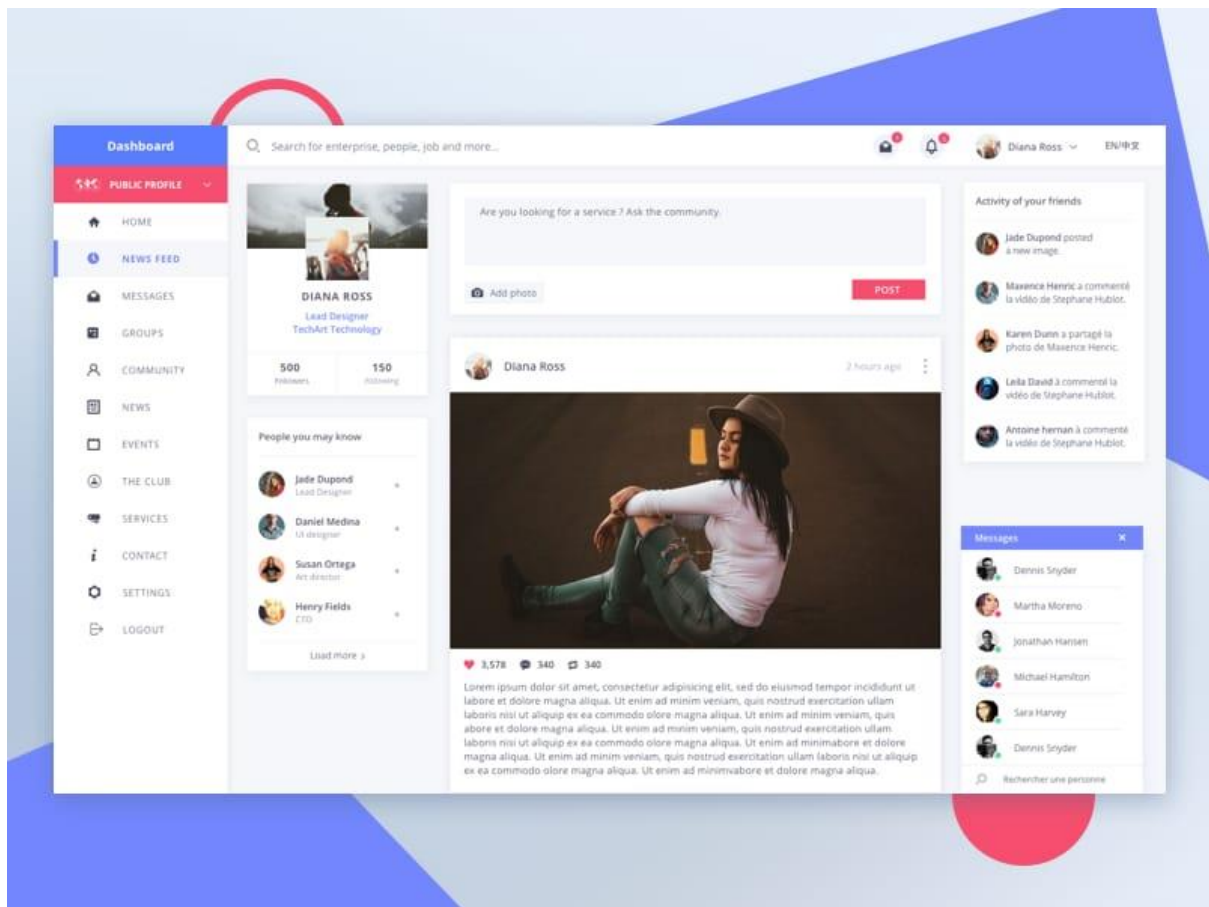
The login page features a light blue header with the title "Login to your account". Below the header are two input fields: "E-mail" and "Password". A checkbox labeled "Remember me on this computer" is positioned to the left of a blue "LOG IN" button. Below the checkbox is a link "Forgot Password?". Underneath the login form are two more input fields, each with a green checkmark icon to its right. At the bottom, there are four blue buttons arranged in a 2x2 grid: "INACTIVE", "NORMAL", "HOVER", and "PUSHED".

9.2 Register Page



The register page has a light blue header with the title "Register new account". Below the header are five input fields: "Username*", "Name", "Password*", "Confirm Password*", and "E-mail*". A small asterisk icon is located to the left of the "Username*" and "Password*" labels. At the bottom, there is a blue "REGISTER" button followed by the text "or Cancel". A small asterisk icon is located to the left of the "REGISTER" button.

9.3 Dashboard



10 ADVANTAGES AND DISADVANTAGES

10.1 Advantages

- Enrich your knowledge
- Stay connected with the world
- Strengthen your languages skill and enhance your vocabulary
- Be part of a larger conversation
- Be informed about the latest discoveries and innovation

10.2 Disadvantages

- It can be limited by time.
- It may rely too heavily on personalities emotion opinions not facts.
- It can shortchange complex stories or avoid them altogether.

11.CONCLUSION

News is the part of communication that keeps us informed of the changing events issues and character in the world outside. Though it may be interesting or even entertaining the foremost value of news is as a utility to empower the informed.

12 FUTURE SCOPE

News organization which have struggled in the past two decades as reader moved online and to mobile devices will soon need to adopt to artificial intelligence augmented reality and automated journalism and find ways to connect beyond the smart phone the report said. Voice interface will be one of the big challenge for media organization said the report by Amy Webb a New York University Stern School of Business faculty member and founder of the future today institute.

13.APPENDIX

Source code

The source code has been uploaded in github .To refer the final source code click 'SOURCE CODE'

GITHUB & PROJECT DEMO LINK

The github link : [github](#)

The project link : [Demo link](#)