NEWS TRACKER APPPLICATION USING CLOUD

(Newzio)

A Project report submitted in partial fulfillment of 7th semester in degree of

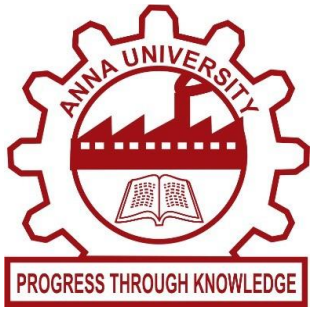
BACHELOR OF ENGINEERING
IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

TeamID: PNT2022TMID49655

ARUN KUMAR.R	950319104002
BUVANESH MANIKUMAR.M	950319104003
DANIEL V RICHARDSON	950319104301
NELSON SOREN	950319104302



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
GRACE COLLEGE OF ENGINEERING, THOOTHUKUDI

ANNA UNIVERSITY: CHENNAI 600025

NOV-2022

GRACE COLLEGE OF ENGINEERING, THOOTHUKUDI
(Affiliated by Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "**NEWS TRACKER APPLICATION**" is the bonafide record work done by **ARUN KUMAR. R (950319104002), BUVANESH MANI KUMAR.M (950319104003), DANIEL V RICHARDSON (950319104301),** and **NELSON SOREN (950319104302)** for **"HX 8001 PROFESSIONAL READING FOR INNOVATION, EMPLOYABLITY AND ENTREPRENEURSHIP"** in **VII** semester of **B.E.,** degree course **in Computer Science and Engineering** branch during the academic year of 2022 – 2023.

Staff-Incharge **Evaluator**

Mr. S. MANICKAM M.E., (Ph.D.) **Mrs. K.M. ANNAMMAL M.E., MBA., (Ph.D.)**

Head of the Department

Mrs.P.JOY SUGANTHI BAI M.E.,

ACKNOWLEDGEMENT

We acknowledge our sincere thanks to Head of the Department (i/c) **Mrs. P. Joy Suganthi Bai** for giving support and ideas to make our Project**.**

We are highly grateful to thank our Project coordinator **Mr. S. Manickam** for giving us valuable suggestion and help towards us throughout this Project and our Project Evaluator **Mrs. K.M. Annammal** Department of Computer Science and Engineering, Grace College of Engineering for the coordinating us throughout this Project.

We are very much indebted to thank all the faculty members of Department of Computer science and Engineering in our Institute, for their excellent moral support and suggestions to complete our Project work successfully.

Finally, our acknowledgment does our parents, sisters and friends those who had extended their excellent support and ideas to make our Project a pledge one.

Arun Kumar. R
Buvanesh Manikumar.M
Daniel V Richardson
Nelson Soren

ABSTRACT

In the present era, the internet and new technologies are changing the information behavior of news reader. Instead of reading a copy of the local newspaper or watching the scheduled evening news, people increasingly turn to the internet for daily news updates. This news feed application is aimed at developing a web-based application named Newzio news feed app. This Application deals with the user who wants to read news from the web application. User can select different cities in which a user is interested, the latest news will be fetched from the selected cities. The news will be fetched and displayed based on the cities selected. The news is categorized into 7 different categories. A user can select any category which they are looking for. Everyone has the right to freedom of speech. However, this right is being misused to differentiate and attack others, physically or verbally, in the name of free speech. This discrimination is known as hate speech. Hate speech can be well-defined as language used to express hate towards a person or a group of people based on characteristics such as race, religion, ethnicity, gender, nationality, disability. The increasing usage of social sites and information sharing has specified major benefits to humanity. However, this has also assumed rise to a variety of challenges including the spreading and sharing of hate speech messages. Thus, to solve this emerging issue in social media sites, recent studies employed a variety of machine learning and deep learning algorithms with text mining algorithm to automatically detect the hate speech messages on real time datasets. Hence, the aim of this Project is to analyses the comments on social networks using Natural Language processing technique (NLP) and Deep learning algorithm named as Back propagation neural network algorithm. Using NLP technique, can extract the keywords from user generated content and implement Back Propagation neural network to classify the text whether it is positive or negative. If it is negative means, automatically block the comments as per user wish and also block the friends based on pre-defined threshold values.

TABLE OF CONTENTS

News Tracker Application: Newzio

1. INTRODUCTION

In today's world people cannot go a day without technology and social sites. In the past few decades, people were familiar with the social News sites, but in recent years, the need of features has been increased so as to make the lives of people much simpler, better and handy. The rapid progress in the mobile technology field has created a new zeal in the many new young minds of the software engineers and developers. There have been many attempts made to develop a freeware and cross platform instant news service for smart phones. A pilot case study was carried out to trace the support of the features of news applications. The prototype developed includes the testing module. Using web services over the internet that offers latest news helps the process of development in a standardized way of the clients. It is a research on how to use and develop new features in the smart phones for bringing the world to the hands of the people and making every updates of the world easily accessible and user friendly. In the research we intend in developing a mobile news application which can connect the whole world in just a tap on the smart phones and make the people's life easy by keeping them updated with news updates.

1.1 Project overview

As news is increasingly accessed on Smartphone and tablets, the need for personalizing 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 behaviors; 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 recognize 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.

1.2 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.

2. LITERATURESURVEY

2.1 Existing problem

A survey, found that news applications with single handed alteration has become a very old trend where single handed operation has to be connected and it should updated for every recent update. We found that it is not user friendly and it will support only a few parts of news. We intend to develop an application where users can view news as well as in this busy world have all the information handy by the use of API. A survey conducted on the Global Journal Ref no: showed us that people are in a need of technology which can be accessed in just one click as getting the global news updates in a click without downloading.

2.2 Problem Statement Definition

The surveys say that earlier people used to get the news with the help of Newspaper by paying money and also Television was used which took too much time and there was not enough privacy for the user to have personalized news feeds about confidential matters. Thus to overcome all these, this project is designed which is “Newzio” which will help people or the user to secure all the databases and also use it for so many other features. .

3. IDEATION & PROPOSED SOLUTION

3.1 EMPATHY MAP

Visualizing user attitudes and behaviors in an empathy map helps UX teams align on a deep understanding of end users. The mapping process also reveals any holes in existing user data.

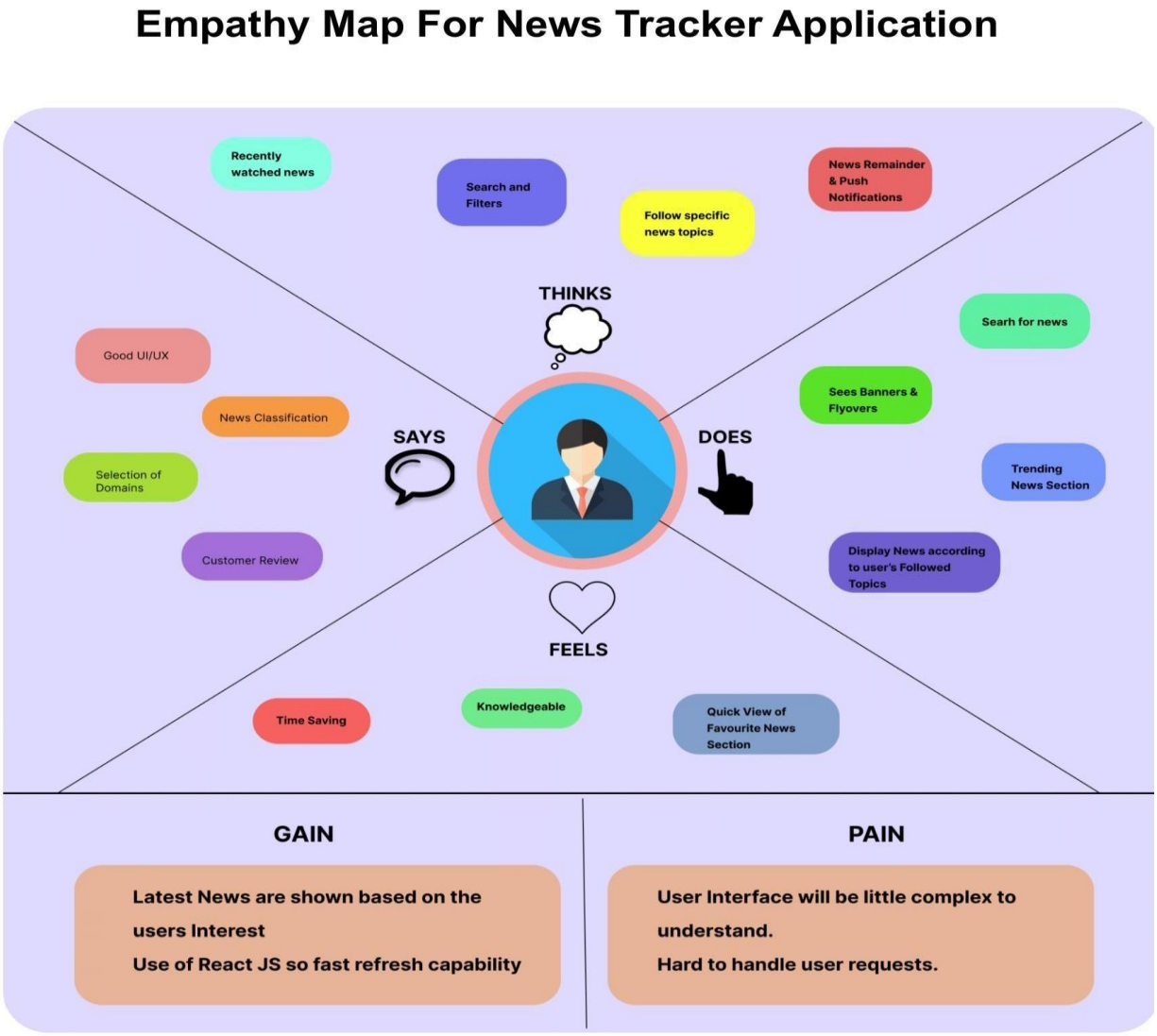


Fig 1: Empathy Map

3.2 BRAINSTORMING

Brainstorming is a method design teams use to generate ideas to solve clearly defined design problems. In controlled conditions and a free-thinking environment, teams approach a problem by such means as “How Might We” questions. They produce a vast array of ideas and draw links between them to find potential solutions.

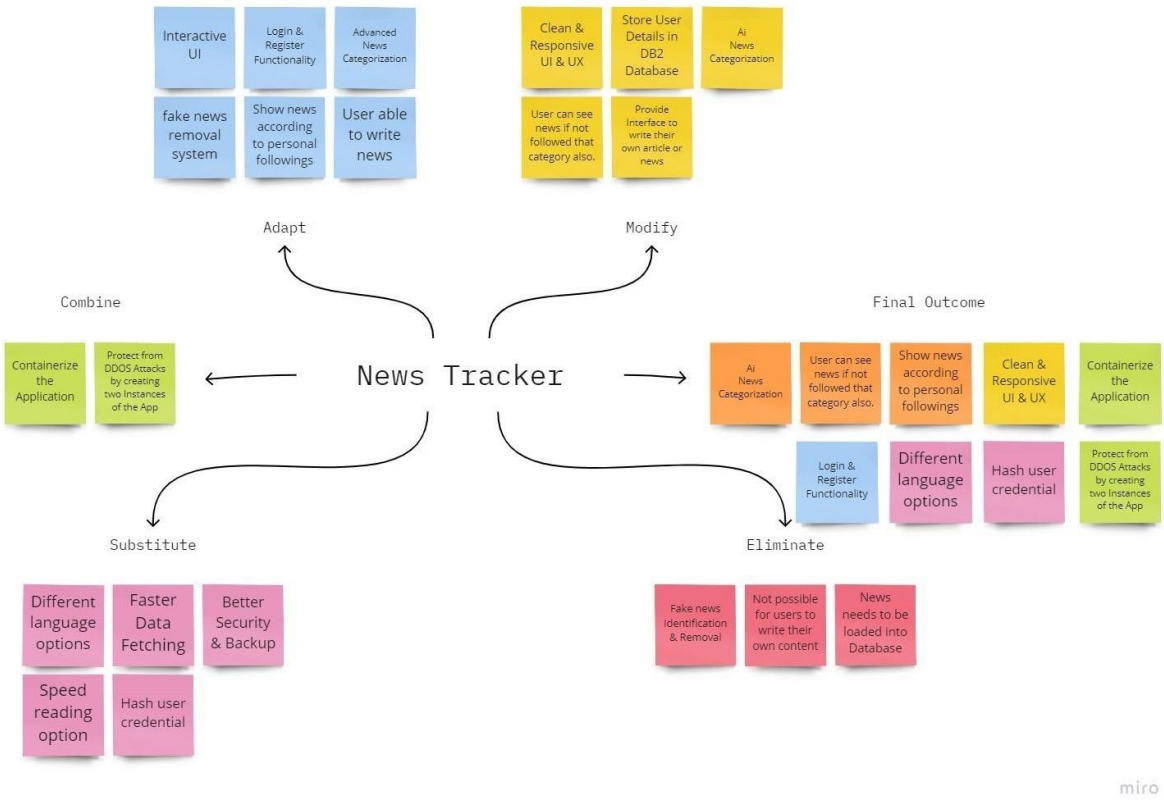


Fig 2: Brain Storming

3.3 PROBLEM STATEMENT FIT

A problem statement is a concise description of an issue to be addressed or a condition to be improved upon. It identifies the gap between the current state and desired state of a process or product. Focusing on the facts, the problem, the problem statement should be designed to address the five W's.

Project Title: News Tracker Application

Team ID: PNT2022TMID49655

Problem Statement Fit

1. CUSTOMER SEGMENT(S) CS Hackers, commercial and scientific purposes, Media monitoring	**6. CUSTOMER CONSTRAINTS** CC It has become so much important to satisfy the customers and as much as the service providers Need to carter the needs of their customers.	**5. AVAILABLE SOLUTIONS** AS The internet and the intermingling of social media with important worldwide events has Made it almost impossible to live under a Rock. But finding a reliable one-stop shop to eng engage with your news can be somewhat of a Challenge.
2. JOBS-TO-BE-DONE / PROBLEMS J&P As a lot of customers' pain we can solve those by Providing an easy way to read the news with the Help of News Categorization.	**9. PROBLEM ROOT CAUSE** RC The main root cause of the Problem is the Time factor as people are not able to give their time Reading the whole news.	**7. BEHAVIOUR** BE The performance and the User Interface would be so simple and interactive so that users can easily Browse the news without wasting so much of Time in it.
3. TRIGGERS TR This news app is a big interactive database of News **4. EMOTIONS: BEFORE / AFTER** EM Fearless, satisfaction, anger and two sentiments Using to extraction.	**10. YOUR SOLUTION** SL Realtime monitoring, working condition is Ensured and restricted permission from Entering high secured areas.	**8. CHANNELS of BEHAVIOUR** CH

Fig 3: Problem Statement Fit

3.4 PROPOSED SOLUTION

Proposed Solution means the technical solutions to be provided by the implementation agency in response to the requirements and the objective of the project.

Proposed Solution

Date	20 October 2022
Team ID	PNT2022TMID49655
Project Name	News Tracker Application

Proposed Solution:

S.NO.	Parameter	Description
1.	Problem Statement (Problem to be solved)	**Statement:** Everyday, a lot of events happen world-wide and we rely on newspapers, television and news articles to get the reliable and trust-worthy information about these events. **Description:** As a result, we created a platform that offers such news from reliable sources worldwide, in an organized and efficient manner.
2.	Idea / Solution description	One platform for all local and worldwide news. Trustworthy and Reliable News. Fast and efficient system. Preventing spread of False information. Data Storage and Backup. Communication.
3.	Novelty / Uniqueness	A cloud computing-based news application that generates news and reports about the happenings around the world using computers and network (Internet). News based on most reliable and trustworthy resources around the world. Developing the Eco- Friendly & sustainability based on center.
4.	Social Impact / Customer Satisfaction	Cloud computing offers a way to create, coordinate, and share information across the globe. The adoption of cloud-based services gives access to a wider range of data and sharing the important information in an efficient way. Our platform eliminates the spread of false news and exposes the injustice and wrongdoings done by false groups. Eliminating the fake news provides better understanding of the real-events happening in the world and the spread of knowledge.

5.	Business Model (Revenue Model)	Our application covers a range of topics including politics, business, criminal justice, environment, technology etc. Our business model will be monetized and generate income by showing advertisements and Operating on monthly and yearly subscription model.
6.	Scalability of the Solution	Scalability is one of the benchmarks of the cloud services and its adoption with businesses. Cloud scalability will help to increase the user-base by increasing the resource allocation and meeting the changing demands without sacrificing the efficiency or quality of our customer service and internal operations. Providing fast and reliable news while maintaining positive relationships with your customers.

Fig 4: Proposed Solution

4. PROJECT DESIGN

4.1 Data Flow Diagrams

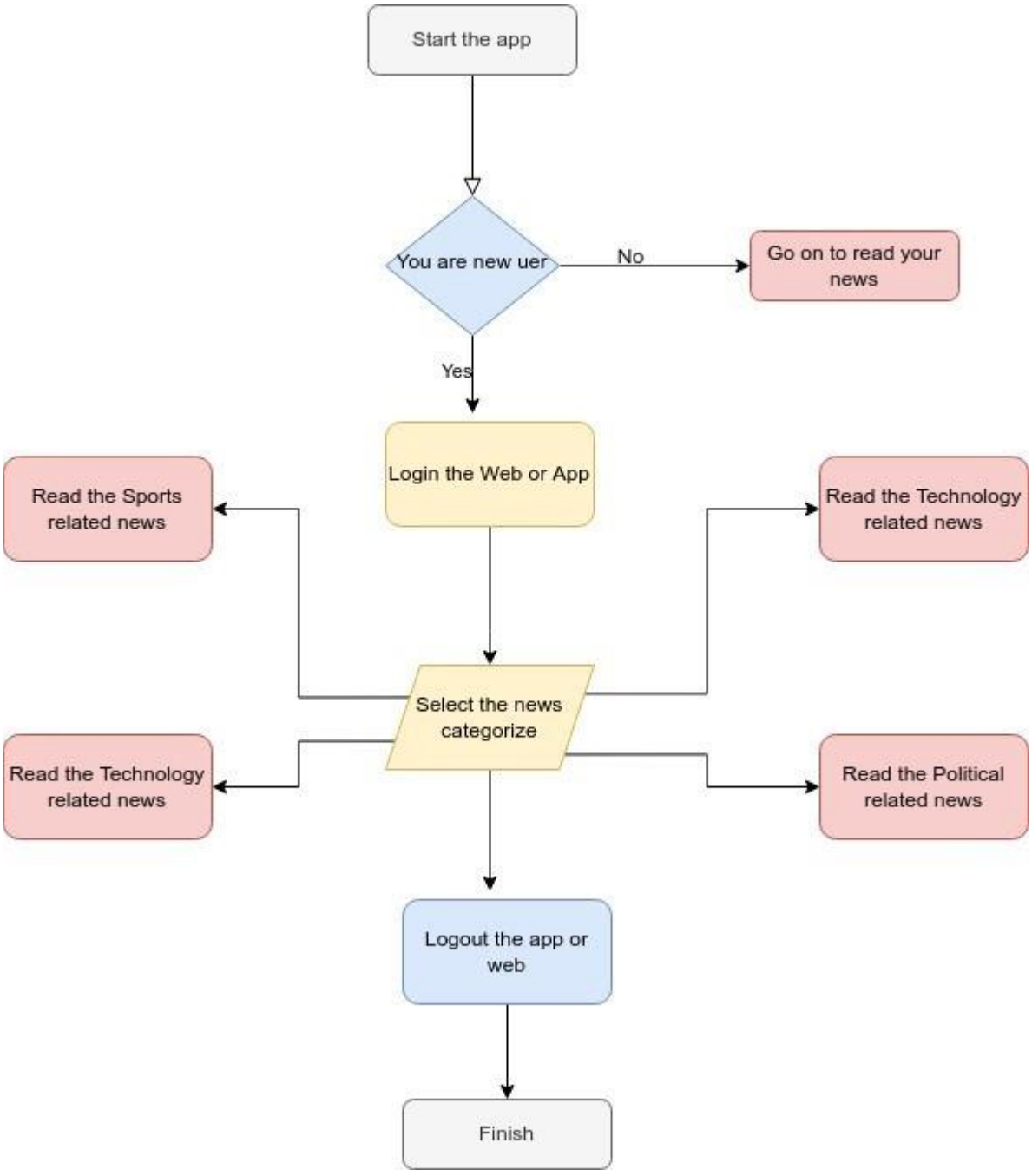


Fig 5: Flow Chart

4.2 Solution Requirement

Solution Requirements

Date	20 October 2022
Team ID	PNT2022TMID49655
Project Name	News Tracker Application

Functional Requirements:

Following are the functional requirements of the proposed solution.

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

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Everyone can understand the process of using the app easily by the commands given in the app.
NFR-2	**Security**	It is a more secured app. No fake news can be shared.
NFR-3	**Performance**	Performance of the app is very great
NFR-4	**Availability**	More sub categories are available

5. PROJECT PLANNING & SCHEDULING

5.1 Sprint Planning & Scheduling

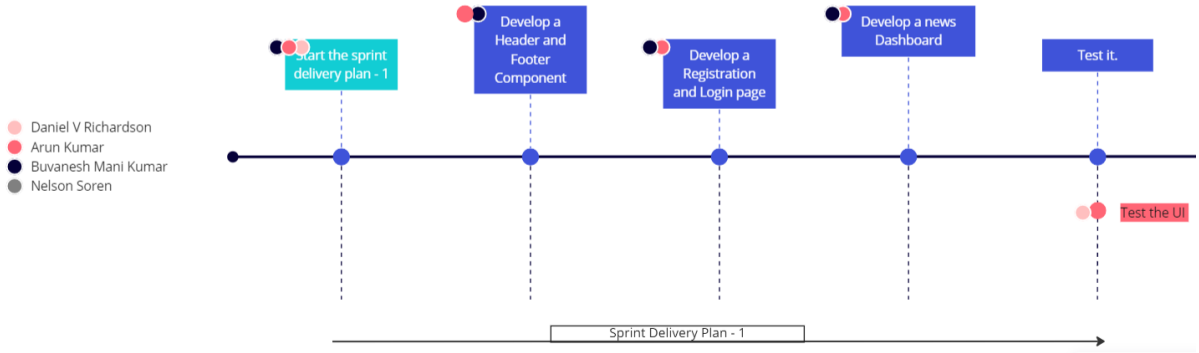


Fig 6: Sprint Delivery Plan

https://miro.com/app/board/uXjVPHo6-jM=/?share_link_id=934270304365

6. CODING

init.py

```
from flask import Flaskimport

ibm_db
from decouple import config#

Database Connectivity

dsn_hostname = config('HOSTNAME')
dsn_uid = config('UID')
dsn_pwd = config('PASSWORD')

dsn_driver = "{IBM DB2 ODBC DRIVER}"
dsn_database = config('DATABASE') dsn_port
= config('PORT') dsn_protocol = "TCPIP"
dsn_security = "SSL"
```

```
dsn = (
"DRIVER={0};"
"DATABASE={1};"
"HOSTNAME={2};"
"PORT={3};"
"PROTOCOL={4};"
"UID={5};"
"PWD={6};"
"SECURITY={7};").format(dsn_driver, dsn_database, dsn_hostname,
dsn_port, dsn_protocol, dsn_uid, dsn_pwd,dsn_security)

try:
conn = ibm_db.connect(dsn, "", "")

except:
print ("Unable to connect: ", ibm_db.conn_errormsg() )

def create_app():
app = Flask(__name__) app.config['SECRET_KEY'] =
config('FLASK_KEY')


from .views import newsfrom
.auth import auth
from .categories import category

app.register_blueprint(news,url_prefix='/') app.register_blueprint(auth,url_prefix='/')
app.register_blueprint(category,url_prefix='/')


return app
```

dbcon.py

```
import os import
ibm_db
from decouple import config

dsn_hostname = config('HOSTNAME')
dsn_uid = config('UID')
dsn_pwd = config('PASSWORD')

dsn_driver = "{IBM DB2 ODBC DRIVER}"
dsn_database = config('DATABASE') dsn_port
= config('PORT') dsn_protocol = "TCPIP"
```

```
dsn_security = "SSL"

dsn = (
        "DRIVER={0};"
        "DATABASE={1};"
        "HOSTNAME={2};"
        "PORT={3};"
        "PROTOCOL={4};"
        "UID={5};"
        "PWD={6};"
        "SECURITY={7};").format(dsn_driver, dsn_database, dsn_hostname,dsn_port,
dsn_protocol, dsn_uid, dsn_pwd,dsn_security)

print(dsn)try:
        conn = ibm_db.connect(dsn, "", "")
        print ("Connected to database !! ")

except:
        print ("Unable to connect: ", ibm_db.conn_errormsg() )
```

7. CONCLUSION

The developed algorithm personalize news feeds saves the user time and give users only interesting news by selecting any category which they are looking for just by single click.

SOURCE CODE GITHUB

https://github.com/IBM-EPBL/IBM-Project-5731-1658813704.git

PROJECT DEMO LINK ON MOBILE SCREEN

https://youtu.be/MvPJoQrkyrI

PROJECT DEMO LINK ON PC SCREEN

https://youtu.be/tWbdVOZEuKc