NEWS TRACKER APPLICATION

CLOUD APPLICATION DEVELOPMENT

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INDEX

1.INTRODUCTION
1.1 PROJECT OVERVIEW
1.2 PURPOSE
2.LITERATURE SURVEY
2.1 EXISTING PROBLEM
2.2 REFERENCES
2.3 PROBLEM STATEMENT DEFINITION
3.IDEATION &PROPOSED SOLUTION
3.1 EMPATHY MAP CANVAS
3.2 IDAETION AND BRAINSTORMING
3.3 PROPOSED SOLUTION
3.4 PROBLEM SOLUTION FIT
4.REQUIREMENT ANALYSIS
4.1 FUNCTIONAL REQUIREMENTS
4.2 NON-FUNCTIONAL REQUIREMENTS
5.PROJECT DESIGN
5.1 DATA FLOW DIAGRAMS
5.2 SOLUTION & TECHNICAL ARCHITECTURE
5.3 USER STORIES
6.PROJECT PLANNING&SCHEDULING
6.1 SPRINT PLANNING & ESTIMATION
6.2 SPRINT DELIVERY SCHEDULE
7.CODING AND SOLUTIONING
7.1 FEATURE 1
7.2 FEATURE 2
8.TESTING
8.1 TEST CASES
8.2 USER ACCEPTANCE TESTING
9.RESULTS
9.1 PERFORMANCE METRICS
10.ADVANTAGES AND DISADVANTAGES
11.CONCLUSION
12.FUTURE SCOPE
13.APPENDIX

1.INTRODUCTION

1.1 PROJECT OVERVIEW

Due to our busy schedules in the current world, we have no time to read the newspaper or even search online for the latest news. News is the important start of the day. This application allows the users to read the news and stay updated on current events on a daily basis. The user interacts with the application by register using their credentials and access the news content of their own interest. The news can be provided in different categories. This news tracker application can be integrated with the news API.

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.…

2.LITERATURE SURVEY

2.1 EXISTING PROBLEM

It is a web based news application, it display the news content with headlines and description.The user can login to the application and they have read the news.This application allows the user to access the news based on their interest. The local news can be displayed in the home page of the application and the news can be provided in categories.The user can save the news content for reading later even in offline.

2.2 REFERENCES

Refernce 1:

Brijesh Joshi, Nehal Patel, **"Android News App"**, International Journal of Applied Engineering Research, volume: 13, pp: 9310-9315, Number 2018.

Description:

This news app is Android mobile application where user have access to latest news. This application displays the news in short format with title, image and description of the news. The user will be able to search from not only one source but many different sources available within API.

Reference 2:

Mr Rakesh Kumar Rai,Dr Isha Singh, Ankit Mudia, Karandeep Bisht, **"News aggregator web application using Django"**, International Journal of Creative Research Thoughts(IJCRT), volume: 9, issue: 7, pp: b871-b876, July 2021.

Description:

This is a web application which aggregates data from multiple websites. The news aggregator application collects the news by scraping some famous websites and serving the articles to the users. There are several news websites, reading the news from those websites can waste our time. For that, this application aggregates the news in a single application and save the time.

Reference 3:

Marios Constantinides , John Dowell , , David Johnson , Sylvain Malacria , **"Exploring mobile news reading interactions for news app personalisation"**, August 2015

Description:

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.

Reference 4:

Regonda Nagaraju, Mohammed Farhan Pasha, Mohammed Abdul Majeed, AdapaSujith, **"An Improved Method for Multi-Lingual News Feed Application"**, International Journal of Engineering and Advanced Technology(IJEAT), volume: 9, issue: 1, pp: 6758-6760, October 2019.

Description:

In this paper, the user can access to read the news from the application. The user can select the country in the application and the news will be fetched and displayed based on the country selected in its own language. The application also supports translation and the news can be translated into any language.

Reference 5:

Sameer Mahajan, Nahush Kulkarni, **"A Conversational News Application Project using Artificial Intelligence based Voice Assistance",**International Research Journal of Engineering and Technology (IRJET), Volume: 07, Issue: 09, pp: 3779-37782, Sep 2020

Description :

In this paper, the user can get to hear about all the important headlines in the news of their chosen topic. It is capable of reading all the headlines of the news articles and can open the source articles for more reading.

2.3 PROBLEM STATEMENT DEFINITION

1. In today's world we have a lot of work and there is no time to cope up everything in the schedule. So it is not possible to read the newspaper.

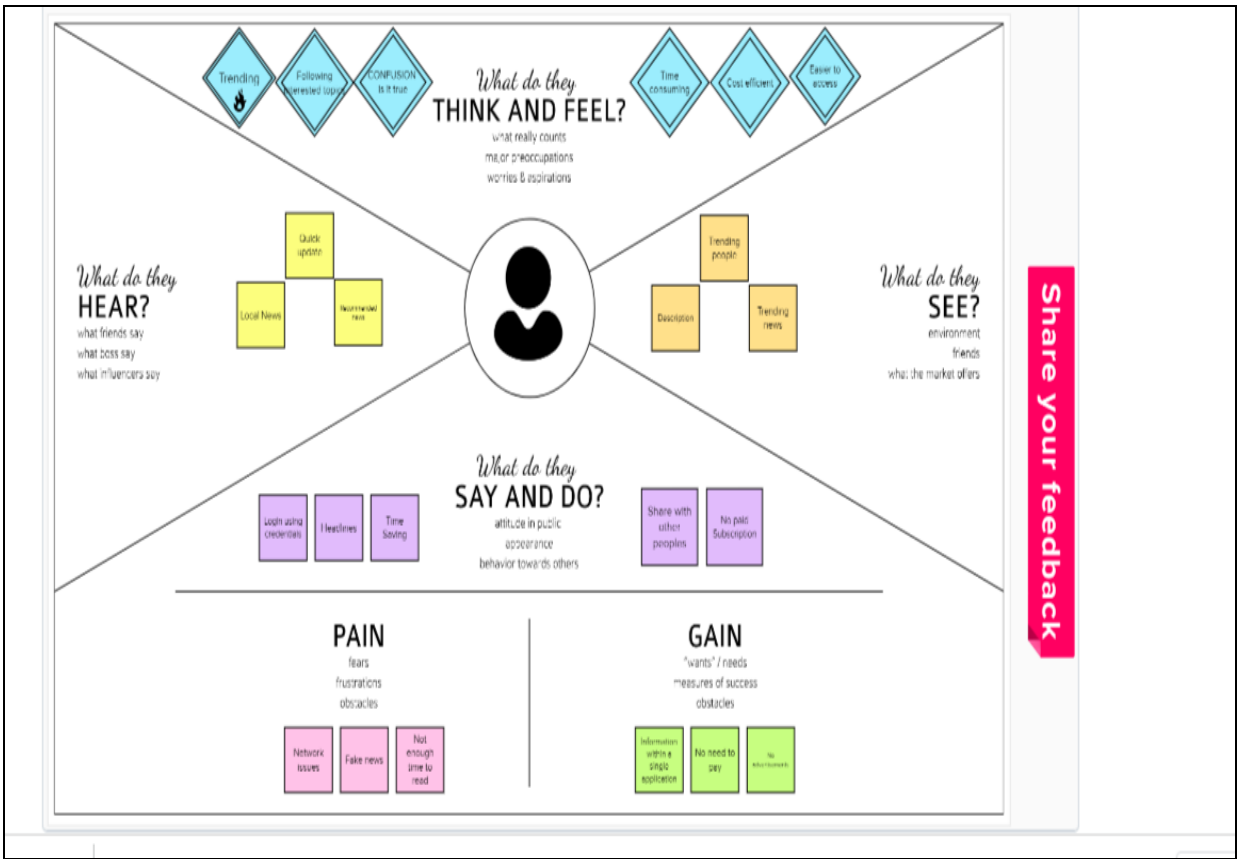
2. By using this application, the user can access the news they are interested and get a quick update of the day.

3. This news tracker application helps the user to get all the information about commodities, sports, technology, education etc.

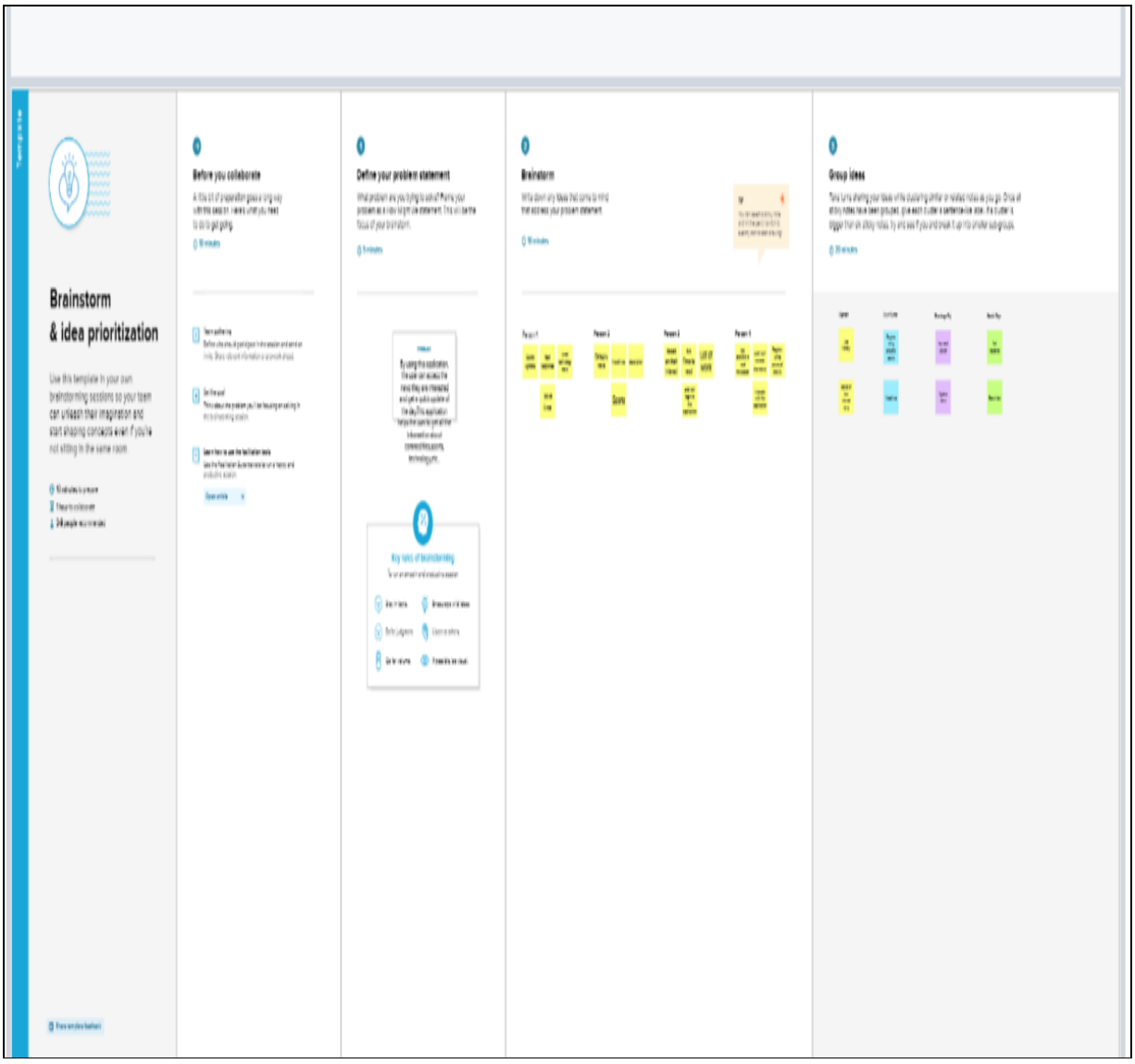
4. The user can register using their personal details and interacts with the application and save their time.

3. IDEATION & PROPOSED SOLUTION

3.1 EMPATHY MAP CANVAS



3.1 IDEATION AND BRAINSTORMING



3.3 PROPOSED SOLUTION

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Due to busy schedule in today's world, there is no time to read the newspaper. But we have to be stay updated on current events on a daily basis. This application allows the user to access the news content.
2.	Idea / Solution description	In this project, we have proposed the user can access the news articles based on their interest. They can login using their personal details and they read the news that can be provided in categories comprises of commodities, education, technology, sports etc.
3.	Novelty / Uniqueness	In our project, the user can search and filter the news by simply typing some related keywords such as date, location,
4.	Social Impact / Customer Satisfaction	The users are satisfied because a voice assistant can be

		integrated in the application in which they can hear the news and performs voice based search by speaking.
5.	Business Model (Revenue Model)	For the users, the application provide a benefits of accessing the news content and other modules in a single application.
6.	Scalability of the Solution	This application update the user with a daily news updates in which they can know the daily happenings around the world.

3.4 PROBLEM SOLUTION FIT

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

A person who is reading a newspaper daily or one who knows the everyday happenings around the world.
Students
Employees
Organizations
Person age above 15

6. CUSTOMER CONSTRAINTS

The user need a laptop/desktop/smart phones to use this application.
A good internet connection is required to use this application.
It is location independent ,the user can able to access the news from anytime and anywhere.
The user can sign in and signup this application and they select the news based on their choice.

5. AVAILABLE SOLUTIONS AS

The user can search news using search bar to read a particular news.
There is no paid subscriptions to access the news.
The user can login and they select the category of their own interest.

Explore AS, differentiate

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

2. JOBS-TO-BE-DONE / PROBLEMS

In today's world we have no time to read the newspaper or even search google for the latest news. But the news is the important start of the day.

They are busy to cope up with everything in the schedule.

By using this application they can get the quick peek of the day.

9. PROBLEM ROOT CAUSE RC

In the current world the user had no time because they are busy in their work.

But they have to be stay updated with everyday happenings around them.

In newspapers some news cannot be described in full context.

The relevant images of the news will not be printed sometimes in news papers.

By using this application, they can view the description, relevant images and access the news.

BE

7. BEHAVIOUR

The application display the news with the description and relevant images.

The user can read the news by read more clearly.

The application get updated within a seconds when the news are updated.

The user can read the news with their individual interest.

The application displays the top and trending news .

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

3. TRIGGERS

TR

This application provides news articles and other related information to the user.

They can access and read the news articles provided in different categories.

They can share the news articles to their neighbours via socialmedia.

The recommendation provide by this application triggers the users to access and use this application.

10. YOUR SOLUTION

SL

We have proposed an solution , in which the user can read the news articles with their smart phones and PCs .

The user can read and access the news articles based on their interest.

The user can search and filter the news by typing some related keywords to access the news content.

There is no need to buy the newspaper by utilizing this application.

They can get quick update of the day.

8. CHANNELS of BEHAVIOUR

CH

8.1 ONLINE

.The people can use this application online through the internet.

.A user can get a quick update of the day.

-The user can share the news to others.

-The user can comment to the news.

8.2 OFFLINE

-The user can read the news that can be saves as offline or even reading later.

-Users can download or copy the news articles with their own.

4. EMOTIONS: BEFORE / AFTER

Before:

-Users had no enough time to read the newspaper.

-They have buy newspaper daily to get the news.

After:

-By utilizing this application, they can easily read the news using their gadgets.

-They had not to pay any money to get the news.

-The users can search the news based on their interest.

-The news can be provided in categories which helps them to easily access the news articles.

4.REQUIREMENTS AND ANALYSIS

4.1 FUNCTIONAL REQUIREMENTS

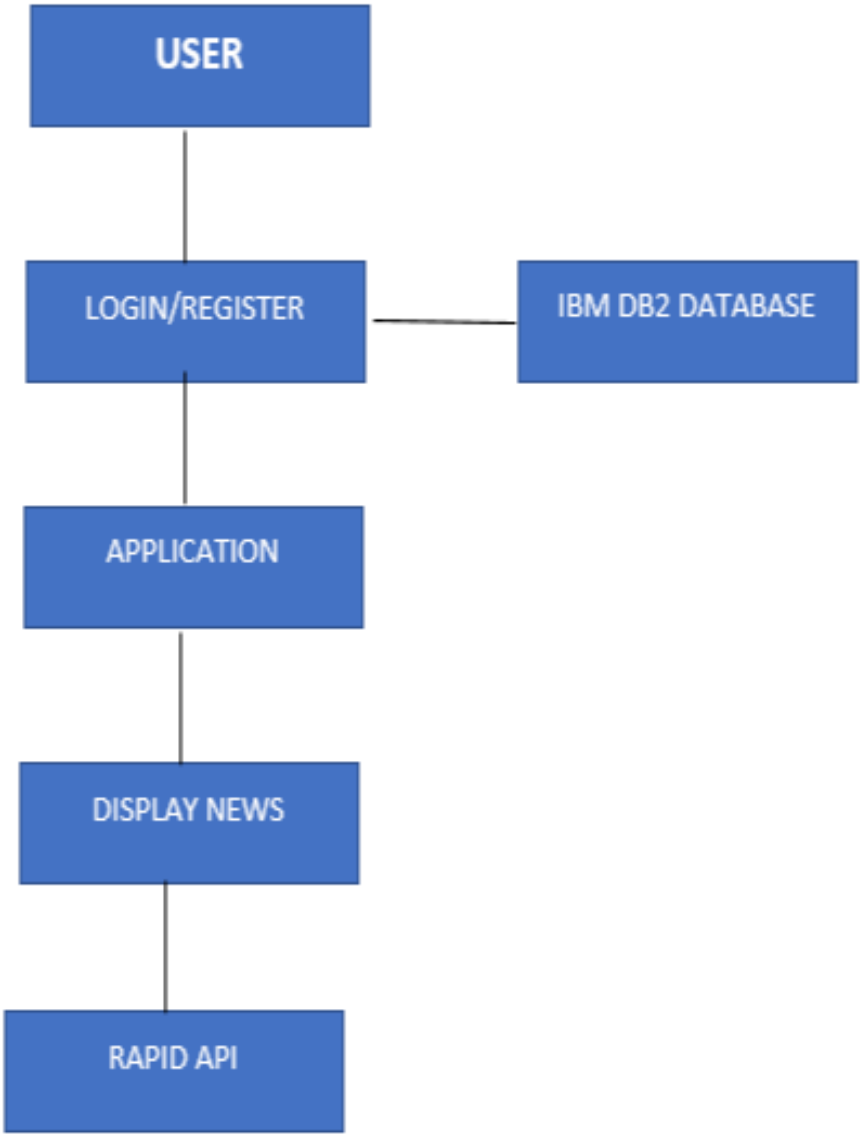
FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Login	Login to the application using the user credentials i.e., username and password.
FR-4	News by Category	The user can select the news content based on the category such as education, technology , sports, commodities etc., It also allows the user to access the news articles in which that they have been interested to read.
FR-5	Search and Filter News	The user can search the news articles and other related news using the search option and the application filter the news content and display to the user.
FR-6	Home Page	In the home page, the news can be displayed to the user using the News API.

4.2 NON-FUNCTIONAL REQUIREMENTS

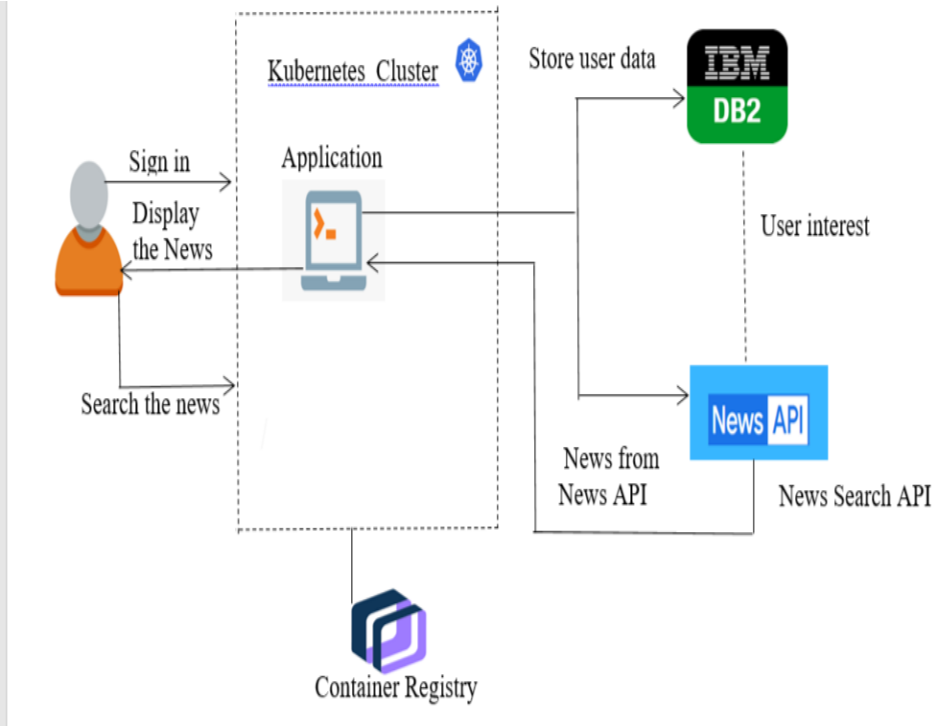
FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The application is user-friendly and the user can easily access and read the news and know the current events and stay updated. The users can be use this application easily through the internet.
NFR-2	**Security**	The user can know their own username and password. The unauthorized users cannot use the username and password of the registered users.
NFR-3	**Reliability**	The news that can be fetched from News API can be a reliable news. The personal details of the application be secure and no third parties involved in this application.
NFR-4	**Performance**	While the user interacting with the application, the news content can be displayed quickly. While the user login to the application the response is speed. In search bar, the news can be searched and filtered fastly.
NFR-5	**Availability**	The news articles can be accessed from anywhere and at anytime by the user.
NFR-6	**Scalability**	Any number of users can be used this application.

5. PROJECT DESIGN

5.1 DATA FLOW DIAGRAMS

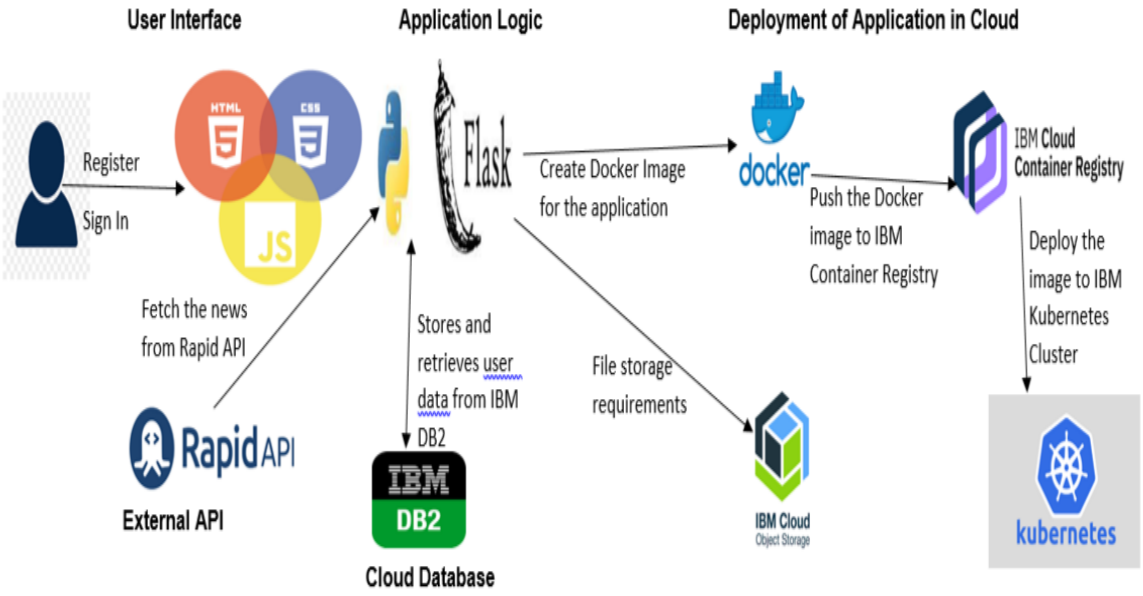


5.2 SOLUTION ARCHITECTURE



s

5.3 TECHNOLOGY ARCHITECTURE



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 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-3	As a user, I can register for the application through credentials.	I can register & access the dashboard	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail	I can register the application through Gmail	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can register via email and password	High	Sprint-1
	Dashboard	USN-6	As a user , I can view the news displayed in the web application.	I can view the news in the dashboard	Medium	Sprint-1
Customer (Web user)		USN-7	As a user I can select my interest and access the news content based on my interest.	I can select my interest	Medium	Sprint-2
Customer Care Executive	Chatbot	USN-8	As a user I can clear my doubts in the chatbot.	I can clarify my doubts with chatbot	Medium	Sprint-4
Administrator		USN-9	As a user I can login through the browser and access the news	I can utilize this application via browser	Low	Sprint-1
		USN-10	As a user I can updated through the daily events.	I can updated with daily events	High	Sprint-1

S

6.PROJECT PLANNING AND SCHEDULING

6.1 SPRINT PLANNING AND 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	Vignesh
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	15	High	Esakki Raja
Sprint-1	Login	USN-3	As a user, I can log into the application by entering username and password	12	High	ArunKumar
Sprint-2	Dashboard	USN-4	As a user, I can view the headlines and news articles	10	High	Shenbaga Raj
Sprint-2	Search news	USN-5	As a user, I can search the news content and articles based on the interest	10	High	Esakki Raja
Sprint-3	Categories	USN-6	As a user, I can view the news articles according to the categories.	13	High	ArunKumar
Sprint-3	API	USN-7	As a user, I can see the news articles that can be fetched from Rapid API	12	High	Shenbaga Raj
Sprint-4	Share	USN-8	As a user, I can share the news to others	10	High	Vignesh

6.2 SPRINT DELIVERY SCHEDULE

Title	Description	Estimated Date
Literature Survey and Information Gathering	Literature survey on the selected project and gathering information by referring the technical papers and research publications	26 SEP 2022
Prepare Empathy Map	Prepare the empathy map canvas to capture the user Pains & Gains, Prepare list of problem statements.	28 SEP 2022
Ideation	List the ideas by organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility & importance.	30 SEP 2022
Proposed Solution	Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc..,	28 SEP 2022

Problem Solution Fit	Prepare problem - solution fit document	4 OCT 2022
Solution Architecture	Prepare solution architecture document	2 OCT2022
Customer Journey	Prepare the customer journey maps to understand the user interactions & experiences with the application (entry to exit).	8 OCT 2022
Functional Requirement	Prepare the functional requirement document.	10 OCT 2022
Data Flow Diagram	Prepare the data flow diagrams	20 OCT 2022
Technology Architecture	To draw the technology architecture diagram.	9 OCT 2022
Prepare Milestone and Activity List	Prepare the milestones & activity list of the project.	25 OCT 2022
Sprint Delivery Plan	Prepare the sprint delivery plan.	04 NOV 2022

7.CODING AND SOLUTIONING

7.1 FEATURE 1

Home page

Registration page

Login page

News Display page

Fetching news from Rapid API

7.2 FEATURE 2

```
from newsapi import NewsApiClient

 def
 home():
                    api_key =
                '25560f3cf53c433c9807c60595b373a6'

                    newsapi = NewsApiClient(api_key=api_key)

                    top_headlines =
                newsapi.get_top_headlines(sources="bbc-news")
                    all_articles =
                newsapi.get_everything(sources="bbc-news")

                    t_articles = top_headlines['articles']
                    a_articles = all_articles['articles']

                    news = []
                    desc = []
                    img = []
```

```
p_date = []
url = []

for i in range(len(t_articles)):
    main_article = t_articles[i]

    news.append(main_article['title'])
    desc.append(main_article['description'])
    img.append(main_article['urlToImage'])
    p_date.append(main_article['publishedAt'])
    url.append(main_article['url'])
```

6.TESTING

8.1 TEST CASES AND USER ACCEPTANCE TESTING

1. While the user interact with the application, they have given their credentials to register in this application.
2. A person using same credentials are not registered.
3. They have registered exactly once.
4. When the user sign in the application they have enter the correct username and password to use the application.
5. Incorrect username and password cannot be accepted in this case.
6. The news displayed in this application can be fetched from the news API.

9.RESULTS

9.1 PERFORMANCE METRICS

UI:

News Tracker Application has a simple and clear user interface in which the user can interacts with the application in a effficient way.

Security:

The user details are stored in a efficient manner. The username and password of one user can be secured along with them.

Efficiency:

News tracker application uses the news API for fetching the news and the data can be stored in the cloud for fast execution.

Storage:

The user details can be stored and retreived from the database.

User Benefits:

The application saves a lot of time for the users .

10.ADVANTAGES AND DISADVANTAGES

ADVANTAGES:

1. The user can easily updated with the latest news around them.
2. By using this application, there is no need to buy a newspaper.
3. News tracker application displays the news in categories.
4. The user can able to search th erelated topics in the search bar.

DISADVANTAGES:

1. Uninterrupted internet connection is required.

11.CONCLUSION

Reading newspapers takes up a lot of time and the reader usually spends reading about articles in which they are not interested. By using this project, the user can get access to all the important headlines of their chosen topic on the go, within a minutes. The project is capable of reading all the headlines of the news articles and can open the source article for more in-depth reading if required by the user.

12.FUTURE WORK

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

APPENDIX

Register.html

```
<html>
<head>
<title>Registration</title>
<linkrel="stylesheet"
href="{{url_for('static',filename='css/bootstrap.min.css')}}">
<linkrel="stylesheet"
href="{{url_for('static',filename='myfont/css/all.min.css')}}">
<scriptsrc="{{url_for('static',filename='js/jquery.min.js')}}"></script>
<linkrel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.
min.css" integrity="sha384-
Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23
Q9Ifjh" crossorigin="anonymous" /> <linkrel="stylesheet"
href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-
awesome.min.css" crossorigin="anonymous" /> <style>body {
background-image:url("https://img.freepik.com/free-photo/empty-
industrial-room-interior-design_53876-128649.jpg?w=2000"); } .shadow{
color: black; font-size:25px; padding:30px; box-
shadow:5px5px8px blue,10px10px8px red,15px15px8px green; }
</style></head><body><navclass="navbar navbar-expand-lg navbar-dark
bg-dark"><buttonclass="navbar-toggler" type="button" data-
toggle="collapse" data-target="#navbar" ><spanclass="navbar-
```

toggler-icon"></button><divclass="collapse navbar-collapse" id="navbar"><divclass="navbar-nav"><aclass="nav-item nav-link" id="home" href="http://127.0.0.1:5000">back to home</a> </nav><divclass="container" style="margin-top:100px"><divclass="col-md-offset-3 col-md-5"><divclass="shadow"><formaction="/register" method="POST"><h2class="page-header text-primary text-center">Registration</h2><divclass="form-group"><label>username</label><inputtype="text" class="form-control" name="username" id="username" required> <divclass="form-group"><label>mail</label><textareaclass="form-control" name="mail" id="mail" required></textarea> <divclass="form-group"><label>contact</label><inputtype="text" class="form-control" name="contact" id="contact" required> <divclass="form-group"><label>password</label><inputtype="text" class="form-control" name="password" id="password" required> <divclass="form-group"><inputtype="submit" class="btn btn-success btn-block" value="Register"><ahref="{{url_for('index')}}" class="btn btn-primary btn-block">Back to Home</a> </form> </body></html><script>$(document).ready(function(){$("form").attr("autocomplete","off");});</script>

Style.css

```
 .nav
 {
            overflow: hidden;
            background-color: #bcbebf;
           }

           /* Style the links inside the navigation bar */
           .nav a {
            float: left;
            display: block;
            color: black;
            text-align: center;
            padding: 14px 16px;
            text-decoration: none;
            font-size: 17px;
           }

           /* Change the color of links on hover */
           .nav a:hover {
            background-color: #ddd;
            color: black;
           }

           /* Style the "active" element to highlight the current page */
           .nav a.active {
            background-color: #f0f0f0;
            color: darkslategray;
            font-weight: bold;
```

```
}

/* Style the search box inside the navigation bar */
.nav input[type=text] {
  float: right;
  padding: 6px;
  border: none;
  margin-top: 8px;
  margin-right: 16px;
  font-size: 17px;
}



  .nav a, .nav input[type=text] {
    float: none;
    display: block;
    text-align: left;
    width: 100%;
    margin: 0;
    padding: 14px;
  }
  .nav input[type=text] {
    border: 1px solid #ccc;
  }
}
  .bg-img {
  /* The image used */


  min-height: 380px;
```

```
  /* Center and scale the image nicely */
  background-position: center;
  background-repeat: no-repeat;
  background-size: cover;

  /* Needed to position the navbar */
  position: relative;
}
  .container {
  position: absolute;
  margin: 20px;
  width: auto;
}
  body {
    margin: 0px;
    padding: 0px;
    background-color: #bebebf;
}
  .logo h2 {
    font-size: 30px;
    font-weight: bold;


    letter-spacing: 1px;
}

#main {
    padding-top: 98px;
}
```

app.py

```
import ibm_db

app = Flask(__name__)

app.secret_key='a'application/certificate.crt; UID=jqr30997; PWD=vMA wcQgjeq

@app.route('/')

def index():

        return render_template('index.html')

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

        def register():

        if request.method == 'POST':

            try:

             username = request.form['username']

             mail = request.form['mail']

             contact = request.form['contact']

             password = request.form['password']

             query = "INSERT INTO REGISTRTION VALUES(?,?,?,?)"

             stmt = ibm_db.prepare(connection, query)

             ibm_db.bind_param(stmt, 1, username)

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

```
                ibm_db.bind_param(stmt, 3, contact)
                ibm_db.bind_param(stmt, 4, password)
                ibm_db.execute(stmt)
                flash("Registered  Successfully","success")
            except:
                flash("Error in Insert Operation", "danger")
            finally:
                return redirect(url_for("index"))
                con.close()
        return render_template('register.html')
@app.route('/login', methods=['GET', 'POST'])
        def login():
         global userid
         if request.method == "POST":
            username = request.form['username']
            password = request.form['password']
 query = "SELECT * FROM REGISTRATION 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)
            if account:
                session['Loggedin'] = True
                session['id'] = account['USERNAME']
                session['username'] = account['USERNAME']
                return render_template('customer.html')
            else:
                flash("Oops Username and Password Mismatch", "danger")
                return redirect(url_for("index"))
@app.route('/logout')
        def logout():
            session.clear()
            return redirect(url_for("index"))
if __name__ == '__main__':
            app.run(debug=True)
```

```
@app.route("/news")
def home():
 api_key = '25560f3cf53c433c9807c60595b373a6'
 newsapi = NewsApiClient(api_key=api_key)
 top_headlines = newsapi.get_top_headlines(sources="bbc-news")
 all_articles = newsapi.get_everything(sources="bbc-news")
 t_articles = top_headlines['articles']
 a_articles = all_articles['articles']
 news = []
 desc = []
 img = []
 p_date = []
 url = []
 for i in range(len(t_articles)):
 main_article = t_articles[i]
news.append(main_article['title'])
 desc.append(main_article['description'])
 img.append(main_article['urlToImage'])
```

```
    p_date.append(main_article['publishedAt'])
    url.append(main_article['url'])
    contents = zip(news, desc, img, p_date, url)
    news_all = []
    desc_all = []
    img_all = []
    p_date_all = []
    url_all = []
  for j in range(len(a_articles)):
        main_all_articles = a_articles[j]
    news_all.append(main_all_articles['title'])
    desc_all.append(main_all_articles['description'])
    img_all.append(main_all_articles['urlToImage'])
    p_date_all.append(main_all_articles['publishedAt'])
    url_all.append(main_article['url'])
  all = zip(news_all, desc_all, img_all, p_date_all, url_all)
  return render_template('home.html', contents=contents, all=all)
  @app.route('/logout')
```

```
def logout():
    session.clear()
    return redirect(url_for("index"))


if __name__ == '__main__':
    app.run(debug=True)
```

GitHub Link:

https://github.com/IBM-EPBL/IBM-Project-51439-1660979336

Project Demo Link:

https://drive.google.com/file/d/1sx7z6_UOVZnGfaIDUcfTLQiQc4Jrv0kT/view?usp=drivesdk