

NEWS TRACKER APPLICATION
A NALAIYA THIRAN PROJECT REPORT

Submitted By

AJIN KUMAR.K(961619205003)

ASHWIN.C(961619205006)

JENIFER KING.L (961619205010)

ABHINASH.R(961619205701)

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BONAFIDE CERTIFICATE

Certified that this project report “**NEWS TRACKER APPLICATION**” is the bonafide work of “**AJIN KUMAR.K(961619205003), ASHWIN.C(961619205006), JENIFER KING.L(961619205010), ABHINASH.R(961619205701)** Submitted for ‘**HX8001, PROFESSIONAL READINESS FOR INNOVATION EMPLOYABILITY AND ENTREPRENEURSHIP**’ who carried out the project work under my supervision.

SIGNATURE

Mrs. ANCHANA B.S, M.E

HEAD OF THE DEPARTMENT

Information Technology

Marthandam College of

Engineering and Technology

Kuttakuzhi-629177

SIGNATURE

Mr.JUSTIN JOSE.D M.E

MENTOR

Information Technology

Marthandam College of

Engineering and Technology

Kuttakuzhi-629177

Submitted for project Viva-Voce held on

**INTERNAL EXAMINER
EXAMINER**

EXTERNAL

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CHAPTER 1

INTRODUCTION

1.1 OVERVIEW

Android provides simple application structure and requires Java and Mark-up languages knowledge to work with. Such as, an discrete movement delivers a solitary screen for a user interface and a service whole completes work in the contextual [1]. We can work on different module separately and can combine at the end, we can also add future modules easily afterwards. API (Application Programming Interface) which is an intermediate interface between different applications. It provides automation, immediacy, adaption and personalization. News API provides us the source of news articles from many different sources at one place and updates it. To expand the sources old fashioned Admin panel can be used where writers will fill the gap of API. In 2014, a design language has been created by google named Material Design which is based on “cards” uses grind based layouts, responsive animation, padding and depth effects like shadow to create an responsive, attractive and easy user interface. With the use of different libraries and material design it is possible to use attractive UI.

Native news apps are expensive and difficult to maintain. Native Publishers like BBC News or NY Times uses their own writers to manage articles and manage it. Many native newspaper are divided because of this which causes in lack of resources from one side. Android structure provides great capability with frameworks, libraries and APIs, with the help of it we can provide better user experience and combine this sources at one place while maintaining integrity of its owner.

1.2 PURPOSE

As world's technology is rapidly growing we has fast connection and network to instantly connect to other person. Day to day use in mobile, tablets and laptop is increasing, most of the people already have this facilities. In this fast and information oriented world we need to stay updated with every incidents and news too. This News app is android mobile application where user have access to latest news from 120+ newspapers from 50+ countries. The main focus of this application is to connect news articles from all around the world and deliver it to user as fast as possible in best visualize way

“Newsapi” provides API that returns JSON (JavaScript Object Notation) metadata for headlines and articles live all around the world at any time [2]. In this app we will be using this API for our better experience. Even after using this API it is possible that we can’t reach maximum output of resources for that we can use Admin panel where admin or writers can add news of their own, manage and delete it. This contain will have separate database and access bar which will be labelled as “local news”. A module can be implemented where user will have different local news based on his location.

One of the factors in successful news app development is visualization of news and its feature with user. For the development of an android app material design is very useful and provides smooth experience with custom layout, views and animations. For this news app user should be able to select from different categories, countries and newspaper. Short News as list view with header, little description and image before showing full article can be helpful to user to determine what type of news they are looking for. View Holder can be used for this list view for better and fast experience. Library like Picasso can be used for better image handling. This User interface will be connected to API and Admin Panel database which will give full article in form of web view of that article. Because of this structure the integrity of writer of that article will not be in harm.

CHAPTER 2

LITERATURE SURVEY

2.1 EXISTING PROBLEM

Newspapers are the first source that provided news for people. The modern or digital newspapers are called news apps or news feeds. Anytime, anywhere, access to the latest and updated news is reader's demand. People like to get their news on the go, and expectations from news apps are dialed to the max.

What makes readers feel welcome? Newspapers may be struggling, but the news and information sector is alive and well. News finds its way to us on our smartphones and tablets, rather than being the painstaking embodiment of 'message in a bottle' arriving too little, too late.

Daily hunt, Google news, BBC news, Flipboard, Reuters, Inshorts, Newspoint and Jio News are some top news apps which provide a good user experience and good content to read. These apps track user interest and suggest news according to it. But every app has some flaw in it. Let us take one previous work from above and discuss its working, merits and demerits and what needs to be improved.

2.2 REFERENCE

Current news: Dailyhunt provides news faster and updates user knowledge about current news. **Notification:** It notifies you

when you get news about your favorite topic and also important news.

Topics: It offers vast amounts of topics. After you log in you can select your favorite topic, then the app keeps track of news related to your topic and provides news that only matters to you.

Languages: The app comes with 14 languages which helps us to read news in our own language.

Personalized: It provides personalized news feeds from diverse genres – Politics, Entertainment, Sports, Business, Weather, Astrology, Technology, Finance, Health and more.

Trending News: During Covid 19 Pandemic it helps a lot of persons to get news from official government sources and educate people about quarantine guidelines, restriction.

Organized News: Even though it has a variety of topics it needs to be well collected and organized.

No-Offline: Some users may find some news as important but screenshotting every news is time consuming and takes memory from the user device. So, providing download news

CHAPTER 3


IDEATION & PROPOSED SOLUTION

3.1 EMPATHY MAP CANVAS



3.2 IDEATION & BRAINSTORMING

STEP1: Team Gathering, Collaboration and Select the Problem Statement



Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

10 minutes to prepare
1 hour to collaborate
2-8 people recommended

Before you collaborate
A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

10 minutes

- Team gathering**
Define who should participate in the session and send out invites. Share relevant information or pre-work ahead.
- Set the goal**
Think about the problem you'll be focusing on solving in the brainstorming session.
- Learn how to use the facilitation tools**
Use the Facilitation Superpowers to run a happy and productive session.
[Open article](#)

1 Define your problem statement
What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

5 minutes

How might we (your problem statement)?

Key rules of brainstorming
To run an smooth and productive session

- Stay on topic.
- Encourage wild ideas.
- Defer judgment.
- Listen to others.
- Go for volume.
- If possible, be visual.

STEP2: Brainstorm, Idea Listing and Grouping

3 Brainstorm
Write down any ideas that come to mind that address your problem statement.

10 minutes

Tip
You can add to a sticky note by clicking on it. To delete a sticky note, click on the trash icon.

Person 1

Person 2

Person 3

Person 4

Person 5

Person 6

Person 7

Person 8

4 Group ideas
Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than one sticky note, try and see if you can break it up into smaller sub-groups.

20 minutes

Person 9

Tip
Add a color-coded tag to sticky notes to make it easier to find, group, and categorize ideas later on. All sticky notes are color-coded.

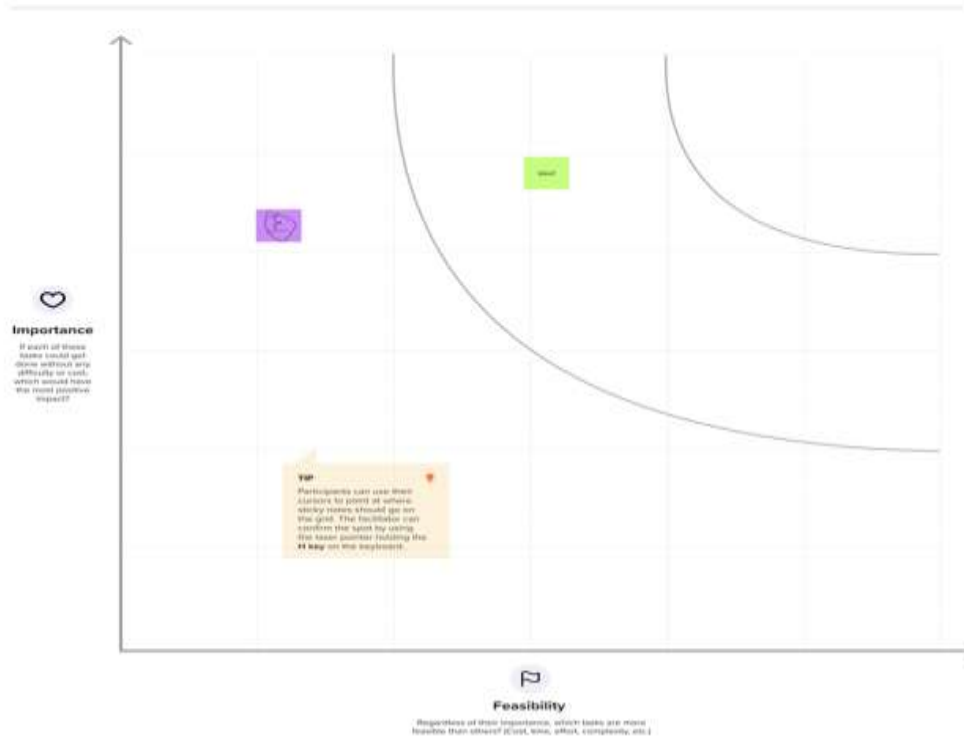
STEP3: Idea Prioritization

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

⌚ 20 minutes



3.3 PROPOSED SOLUTION

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
2.	Idea/Solution description	An application needs to be developed in which users can read news whenever they want and they will be able to customize their area of interest.

3.	Novelty /Uniqueness	A user can read news only from their interested fields rather than reading all the news. This application provides users with a trusted and secured ecosystem. News shared through the application is original and spam free
4.	Social Impact/Customer Satisfaction	This application encourages its users to provide feedback.
5.	Business Model(Revenue Model)	Add advertisement to the application, so that we can get revenue from those advertisement-sponsored organizations. More advertisement may irritate the user. Add premium subscription, users who subscribe for premium won't get advertisement.
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

3.4 PROBLEM SOLUTION FIT

Define CS, fit into CC	<div> <div>1. CUSTOMER SEGMENT(S)</div> <div>CS</div> <div>Who is your customer? i.e. working parents of 3-5 y.o. kids</div> <div>News tracker app can be used by all age groups there is no age limitation This app will be helpful to school students to older age groups in knowing the proper and real news updates regularly</div> </div>	<div> <div>6. CUSTOMER CONSTRAINTS</div> <div>CC</div> <div>What constraints prevent your customers from taking action or limit their choices of solutions? i.e. spending power, budget, no cash, network connection, available devices.</div> <div>News tracker app can be used offline It will consume More time It is budget friendly to use for all age groups</div> </div>	<div> <div>5. AVAILABLE SOLUTIONS</div> <div>AS</div> <div>Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? i.e. pen and paper is an alternative to digital notetaking</div> <div>People may use either newspaper or social media or youtube channels to know the news. 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 engage with your news can be somewhat of a challenge.</div> </div>	Explore AS, differentiate
Focus on J&P, tap into BE, understand RC	<div> <div>2. JOBS-TO-BE-DONE / PROBLEMS</div> <div>J&P</div> <div>Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.</div> <div>Personalization is not flexible and reliable for user. The problems and pains of the user are in today's fast life it is difficult for users to get news at their move. News push notification news broadcast, Able to automatically schedule news feed for mobile user based on their current and future location. Most of the news app serve news to the user in English language only and in single source.</div> </div>	<div> <div>9. PROBLEM ROOT CAUSE</div> <div>RC</div> <div>What is the real reason that this problem exists? What is the back story behind the need to do this job? i.e. customers have to do it because of the change in regulations.</div> <div>The main root cause of NEWS traker application is to gather the NEWS from Non authorized NEWS Medium or website that cause to spread fake news to people</div> </div>	<div> <div>7. BEHAVIOUR</div> <div>BE</div> <div>What does your customer do to address the problem and get the job done? i.e. directly related: find the right solar panel installer, calculate usage and benefits; indirectly associated: customers spend free time on volunteering work (i.e. Greenpeace)</div> <div>while designing this app, we have already pre-built the "chat with us" option (or) "Feedback" option so this helps our customer to report their problem with us easily, so that we get sorted out the problem easily.</div> </div>	Focus on J&P, tap into BE, understand RC
Identify strong TR & EM	<div> <div>3. TRIGGERS</div> <div>TR</div> <div>What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news.</div> <div>Desire to update their knowledge by knowing about what goes on around them, at the Local, National and International Levels. By seeing about their interest like politics, sports etc.</div> </div> <div> <div>4. EMOTIONS: BEFORE / AFTER</div> <div>EM</div> <div>How do customers feel when they face a problem or a job and afterwards? i.e. lost, insecure > confident, in control - use it in your communication strategy & design.</div> <div>User can be tense to know the complete information of the particular news and can get boredom to get the old issues of printed newspaper so they prefer news website to read an more elaborate news and get old news in their fingertip</div> </div>	<div> <div>10. YOUR SOLUTION</div> <div>SL</div> <div>If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality. If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behavior.</div> <div>This app helps you to query for all information about Indices Commodities, Currencies, Future Rates, Bonds, etc as on official websites. It helps the user to read the news in their own national or international language. we create a scalable, responsive and user-friendly newstracker application. It fetches different news sources all around the world so user can select different countries news in which they are interested.</div> </div>	<div> <div>8. CHANNELS of BEHAVIOUR</div> <div>CH</div> <div>8.1 ONLINE What kind of actions do customers take online? Extract online channels from #7</div> <div>8.2 OFFLINE What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.</div> <div>Online: The users searching more information online by means of many websites which has to be provided in the app . Offline: The user downloads many NEWS articles whose information has to be stores in our app that can be access by user</div> </div>	Identify strong TR & EM

CHAPTER 4

REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENT

The functional Requirement of this projects involves the better understanding of Pre-processing. Application designing using HTML & CSS and IBM Watson Cloud. IBM Watson provides the services such as Database, deployment etc. Hardware requirements Operating Window 10.

Software Requirements

- Python
- Java Script
- PIP 2.7
- HTML
- CSS
- Chrome

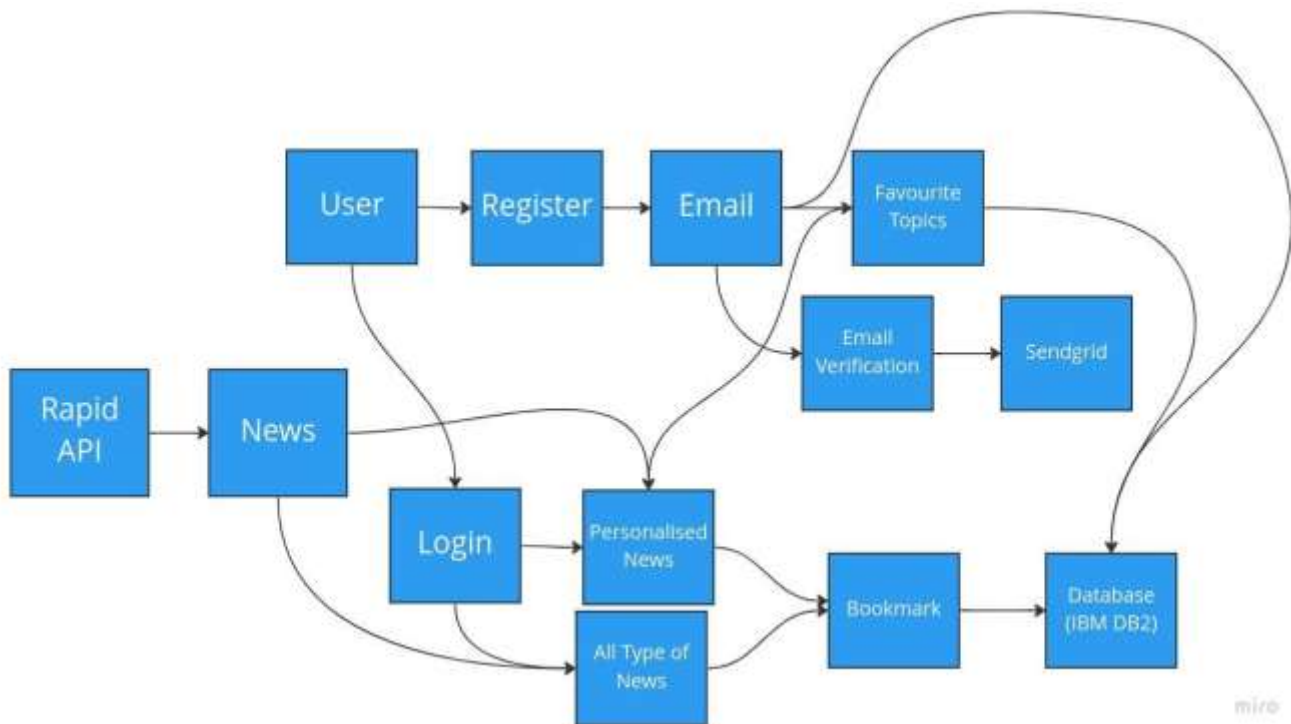
4.2 NON FUNCTIONAL REQUIREMENT

- Highly accurate Image Predictive model
- Better user responsive web application
- Cloud database for storing the information

CHAPTER 5

PROJECT DESIGN

5.1 DATA FLOW DIAGRAM



5.2 SOLUTION & TECHNICAL ARCHITECTURE



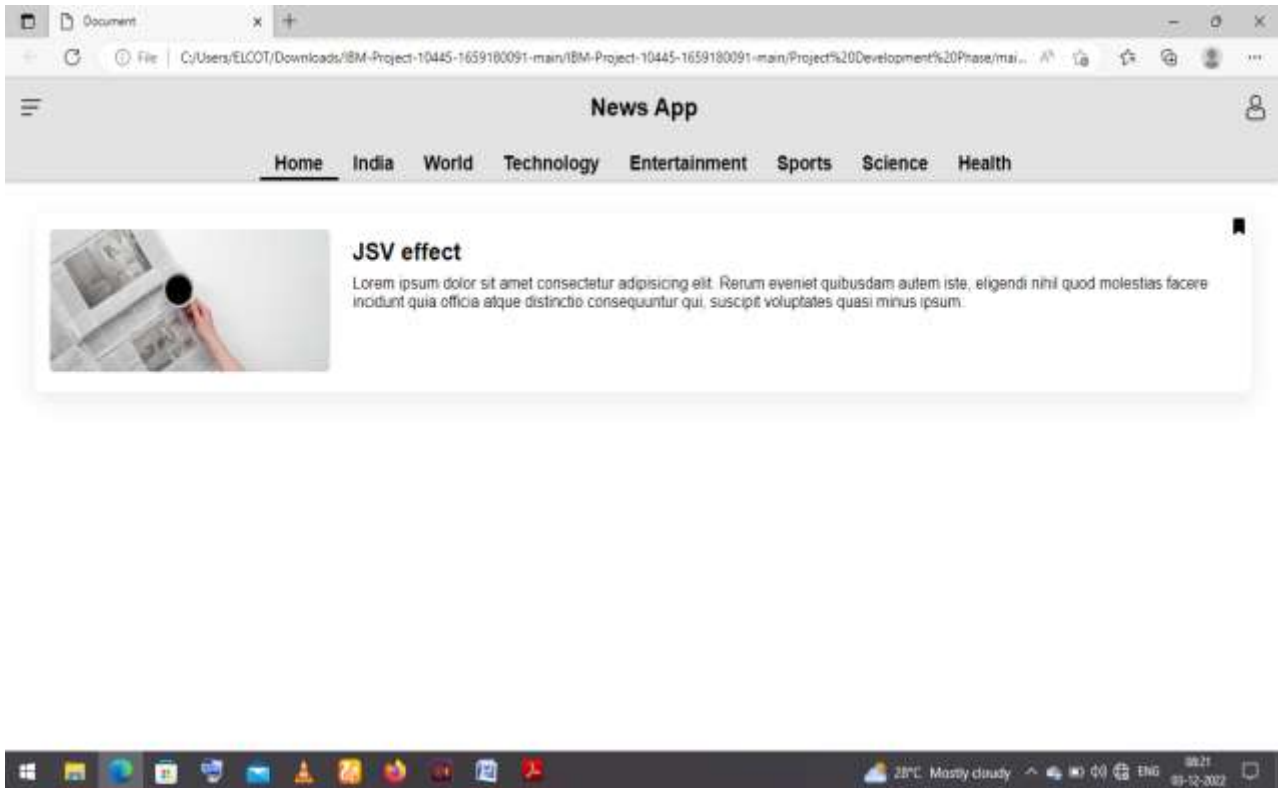
5.3 USER STORIES

User type	Functional Requirements(Epic)	User Story Number	User Story/Task	Acceptance criteria	priority	Release
Normal 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
	Email Verification	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
	Favourite topics USN	USN-3	As a user, I can choose my favourite topics	I can receive confirmation email & click confirm	Medium	Sprint-2
	Login	USN-4	As a user, I can login with the email and password into the app	I can access to all the news	High	Sprint-1
	Dashboard	USN-5	As a user, I can see all the news under specific tab	can view all the news	Medium	Sprint-3
	Bookmark	USN-6	As a user, I can see all the news under specific tab	I can later view my bookmarked news	Low	Sprint-2
	Access	USN-7	As a user, I can access the site anywhere and everywhere	I can view the site by typing the URL of the site	High	Sprint-4

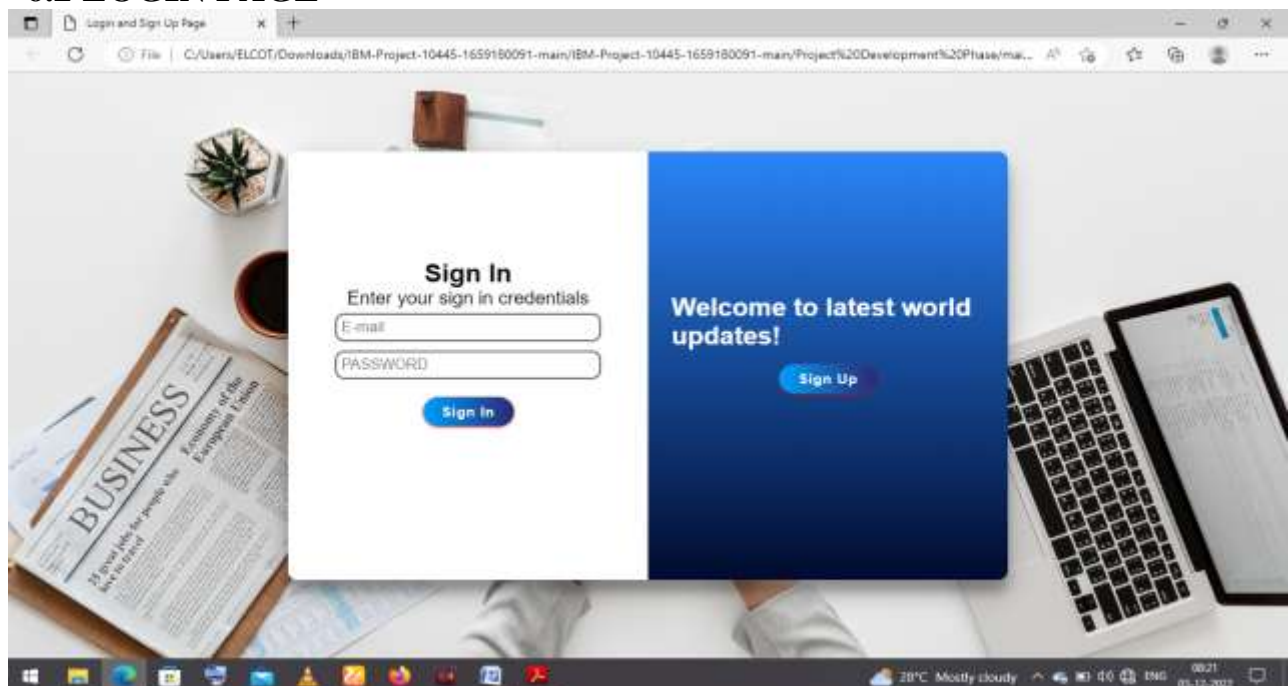
CHAPTER 6

APPLICATION BUILDING

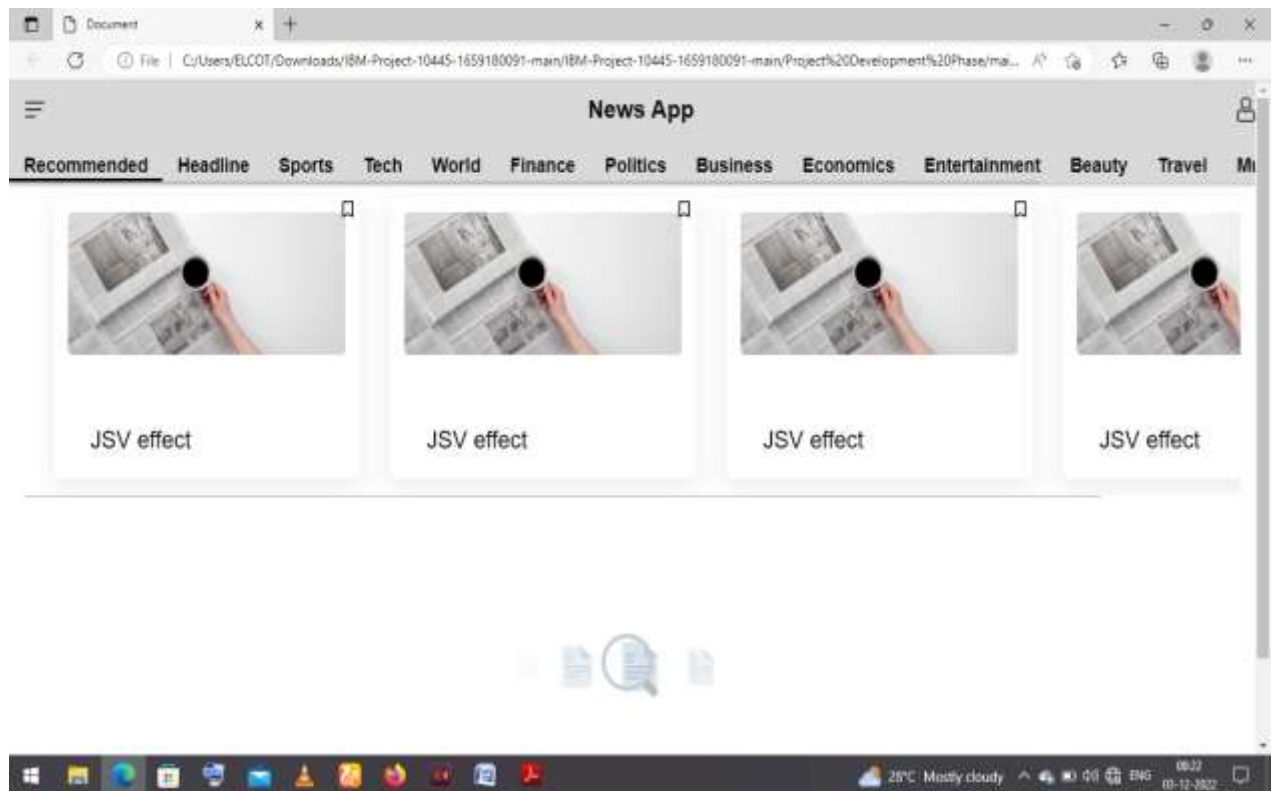
6.1 HTML PAGE



6.2 LOGIN PAGE



6.3 MAIN PAGE



CHAPTER 7

PROJECT PLANNING

7.1 MILESTONES ACTIVITY

Milestone	Function	Milestone Story Number	Story/Task
Milestone-1	Registration	M1	As a user, I can register for the application by entering my email, password and confirming my password.
Milestone-2		M2	As a user, I will receive confirmation email once I have registered for the application.

Milestone-3		M3	As a user , I can register the application Through Gmail.
Milestone-4	Login	M4	As a user, I can log into the application by entering email & password.
Milestone-5	Dashboard	M5	Shows the recent NEWS and Breaking NEWS.
Milestone-6	Search Bar	M6	User searches for News based on their own interest.
Milestone-7	Server	M7	Provides correct NEWS available from the database.
Milestone-8		M8	Provide Live news with video and audio content.

7.2 SPRINT DELIVERY PLAN

Sprint	Functional Requirement(Epic)	User Story Number	User Story/Task	Story Point	Poririty	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	Ajin kumar,As hwin,Jenifer king
Sprint-1	Login	USN-2	As a user, I will receive confirmation email once I have	5	High	Ajin kumar,As hwin,Jenifer king

			registered for the application			
Sprint-1	Email Verification	USN-3	As a user I can verify my email using the link sent to my mail id	5	High	Ajin kumar,Abhinash,As hwin
Sprint-2	API Fetch	USN-4	Fetch News from Rapid API at regular interval	10	Medium	Ajin kumar,Abhinash,As hwin
Sprint-2	REST Endpoints for backend	USN-5	Creating endpoints at the backend inorder to interact with frontend	10	Medium	Jenifer king,Ajin kumar
Sprint-3	Designing Frontend	USN-6	Create a minimalisting design in figma to create frontend	2	Low	Ajin kumar
Sprint-3	Creating Frontend	USN-7	Create the frontend webpage using the design	10	High	Ajin kumar,As hwin
Sprint-3	Connect frontend and backend	USN-8	Connect the frontend and backend and complete the application	8	High	Jenifer king,Ajin kumar
Sprint-4	Testing	USN-9	Testing the application before final release	10	High	Ajin kumar,Abhinash
Sprint-4	Deployment	USN-10	Deployment of the application	10	High	Ashwin,Aj in kumar

CHAPTER 8

APPENDIX

8.1 SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link rel="stylesheet" href="../css/index.css" />
    <title>Document</title>
  </head>
  <body>
    <nav id="head_nav">
      <div class="title_container">
        
        <h1 id="app_name">News App</h1>
        <!-- <div class="search_container">
          <input type="text"
            id="search_box"
            placeholder="Search for topics, locations and resources"
          >
        </div> -->
        
        <div class="profile_div display_none">
          <a class="bookmarked_link" href="/bookmarks.html"
            ><h3 class="bookmarked">Bookmarks</h3></a>
          >
          <h3 class="logout">Logout</h3>
        </div>
      </div>
    <div class="menu_container">
      <h3 class="nav_button selected_nav_item">Recommended</h3>
      <h3 class="nav_button">Headline</h3>
      <h3 class="nav_button">Sports</h3>
      <h3 class="nav_button">Tech</h3>
      <h3 class="nav_button">World</h3>
      <h3 class="nav_button">Finance</h3>
      <h3 class="nav_button">Politics</h3>
    </div>
  </body>
</html>
```

```

<h3 class="nav_button">Business</h3>
<h3 class="nav_button">Economics</h3>
<h3 class="nav_button">Entertainment</h3>
<h3 class="nav_button">Beauty</h3>
<h3 class="nav_button">Travel</h3>
<h3 class="nav_button">Music</h3>
<h3 class="nav_button">Food</h3>
<h3 class="nav_button">Science</h3>
<h3 class="nav_button">Cricket</h3>
</div>
</nav>
<section id="home">
<div class="horizontal_content">
<div class="news_wrapper">

<a class="news_cont" href="/news.html">
<div class="img_cont">

</div>
<div class="news_content">
<h2 class="news_heading">JSV effect</h2>
</div>
</a>
</div>
<div class="news_wrapper">

<a class="news_cont" href="/news.html">
<div class="img_cont">

</div>
<div class="news_content">
<h2 class="news_heading">JSV effect</h2>
</div>
</a>

```

```

</div>
<div class="news_wrapper">
  
  <a class="news_cont" href="/news.html">
    <div class="img_cont">
      
    </div>
    <div class="news_content">
      <h2 class="news_heading">JSV effect</h2>
    </div>
  </a>
</div>
<div class="news_wrapper">
  
  <a class="news_cont" href="/news.html">
    <div class="img_cont">
      
    </div>
    <div class="news_content">
      <h2 class="news_heading">JSV effect</h2>
    </div>
  </a>
</div>
</div>
<div class="vertical-wrapper">
  <div class="loading-cont">
    
    <h2>Loading...</h2>
  </div>
</div>
</section>
<script src="../js/main.js"></script>
<script src="../js/index.js" type="module"></script>
</body>

```


</html>

```
@import
url('https://fonts.googleapis.com/css2?family=Roboto:wght@100;300&display=swap'
);
* {
  padding: 0;
  margin: 0;
  box-sizing: border-box;
  font-family: 'Roboto', sans-serif;
}
body {
  display: flex;
  flex-direction: column;
  overflow-x: hidden;
  /* background-image: url("../assets/pexels-cottonbro-3944418\ 1.png");
  background-repeat: none;
  background-size: cover; */
}
nav {
  display: flex;
  flex-direction: column;
  justify-content: space-between;
  align-items: center;
  margin: auto;
  min-width: 100%;
  box-shadow: 0 0 5px rgba(35, 35, 35, 0.584);
  /* padding: 1rem; */
  background-color: #d9d9d9;
  height: 100px;
  position: fixed;
  z-index: 999;
}
.title_container {
  display: flex;
  justify-content: space-between;
  align-items: center;
  width: 100%;
  margin: auto;
}
.search_container {
```

```

    display: flex;
    justify-content: space-between;
    padding: 5px;
}
.menu_container {
    display: flex;
    width: 100vw;
    justify-content: space-between;
    overflow-x: auto;
    overflow-y: hidden;
}
.menu_container::-webkit-scrollbar {
    height: 2.5px;
}
/* Track */
.menu_container::-webkit-scrollbar-track {
    background: transparent;
    border-radius: 5px;
}
/* Handle */
.menu_container::-webkit-scrollbar-thumb {
    background: rgba(128, 128, 128, 0.37);
}
/* Handle on hover */
.menu_container h3 {
    cursor: pointer;
    padding: 1rem 1rem 0.1rem 1rem;
}
.selected_nav_item {
    border-bottom: solid 3px black;
}
#ham_icon {
    padding: 1rem;
}
#user_icon {
    padding: 1rem;
    cursor: pointer;
}
.profile_div {
    display: flex;
    flex-direction: column;
    position: absolute;

```

```

    top: 50px;
    right: 0;
    box-shadow: 0 0 3px black;
    border-radius: 3px;
    background-color: rgb(232, 232, 232);
}
.bookmarked_link {
    border-radius: 3px;
    padding: 0.4rem 2rem;
    cursor: pointer;
    text-decoration: none;
    color: inherit;
}
.logout, .bookmarked_link {
    border-radius: 3px;
    padding: 0.4rem 2rem;
    cursor: pointer;
}
.logout:hover, .bookmarked_link:hover {
    background-color: rgb(255, 255, 255);
}
#home {
    display: flex;
    flex-direction: column;
    justify-content: flex-start;
    align-items: center;
    width: 100%;
    padding: 0 1rem;
}
.news_wrapper {
    position: relative;
    display: flex;
    box-shadow: rgba(149, 157, 165, 0.2) 0px 8px 24px;
    transition: 0.5s ease;
    border-radius: 10px;
    padding: 1rem;
    margin-bottom: 1rem;
    max-width: 800px;
}
.vertical-wrapper{
    display: flex;
    flex-wrap: wrap;

```

```

    justify-content: space-evenly;
    align-items: center;
}
.news_cont {
    display: flex;
    text-decoration: none;
    color: inherit;
}
.news_wrapper:hover {
    box-shadow: rgba(17, 17, 26, 0.1) 0px 1px 0px, rgba(17, 17, 26, 0.1) 0px 8px 24px, rgba(17, 17, 26, 0.1) 0px 16px 48px;
}
.news_thumbnail {
    border-radius: 5px;
    width: 300px;
    height: auto;
}
.news_content {
    padding-left: 1.5rem;
    min-width: 300px;
}
.news_content h2 {
    padding-top: 0.5rem;
    padding-bottom: 0.5rem;
    font-weight: 500;
}
.news_content h3{
    font-weight: 300;
}
.news-footer{
    margin-top: 1.5rem;
    display: flex;
    justify-content: space-between;
    flex-wrap: wrap;
    align-items: flex-start;
}
.horizontal_content {
    display: flex;
    padding: 1rem;
    margin: 1rem 0;
    max-width: 100%;
    margin-top: 6rem;
}

```

```

        overflow-x: auto;
    }
    .horizontal_content>div {
        position: relative;
        display: flex;
        padding: 1rem;
        margin: 0 1rem;
    }
    .horizontal_content .news_cont{
        display: flex;
        flex-direction: column;
    }
    .bookmark {
        position: absolute;
        right: 5px;
        top: 5px;
        height: 1rem;
        width: 1rem;
        cursor: pointer;
    }
    .display_none {
        display: none;
    }
    .horizontal_content::-webkit-scrollbar {
        height: 2.5px;
    }

    /* Track */
    .horizontal_content::-webkit-scrollbar-track {
        background: transparent;
        border-radius: 5px;
    }

    /* Handle */
    .horizontal_content::-webkit-scrollbar-thumb {
        background: rgba(128, 128, 128, 0.37);
    }
    .img_cont{
        width: 300px;
        height: 200px;
        overflow: hidden;
    }

```

```

.loading-cont{
    display: flex;
    justify-content: center;
    align-items: center;
    flex-direction: column;
}
.loading-cont img{
    width: 300px;
    height: auto;
}
@media (min-width:810px){
    .vertical-wrapper .news_wrapper{
        min-width: 800px;
    }
}

```

App.py

```

from dotenv import dotenv_values
from apiFetch import *
from flask import Flask
from flask_cors import CORS
from routes.register import Register
from routes.checkEmail import CheckEmail
from routes.verify import Verify
from routes.getnews import *
from routes.islogin import IsLogin
from routes.login import Login
from flask_restful import Api
from utils.apiFetch import apiRunner
app = Flask(__name__)
api = Api(app)
data = dotenv_values(".env")
app.config['SECRET_KEY'] = data["secret_key"]
app.config['SECURITY_PASSWORD_SALT'] = data["secured_password_salt"]
apiRunner()
CORS(app, supports_credentials=True)
api.add_resource(Login, '/login')
api.add_resource(IsLogin, '/islogin')
api.add_resource(CheckEmail, '/register/check')
api.add_resource(Register, '/register')
api.add_resource(Verify, '/register/verify')

```

```

api.add_resource(Personal, '/news/recommended')
api.add_resource(News, '/news/<topic>')
    from datetime import datetime
    from flask_restful import Resource
    from flask import request,after_this_request
    from utils.password import checkPassword
    from utils.dbQuery import *
    from dateparser import parse
    from utils.tokener import generate_confirmation_token
    from utils.emailSender import emailSender
    import app
    import jwt
    class Login(Resource):
        def post(self):
            data=request.json
            ip=request.headers.get("ip")
            email=data["email"]
            password=data["password"]
            queryRes=selectQuery("SELECT * from user where email=?", (email,))
            res=checkPassword(password,queryRes["PASSWORD"])
            if(not res):
                return {"status":"Wrong credentials"},400
            if(not queryRes["VERIFIED"]):
                lastTime=parse(queryRes["RESEND_TIME"])
                currTime=datetime.now()
                diff=currTime-lastTime
                diff=diff.total_seconds()
                if(diff>3600):
                    token=generate_confirmation_token(email)
                    emailSender(email,token)
                    insertQuery("UPDATE user set RESEND_TIME=? where
email=?", (datetime.now(),email))
                    return {"status":"Not verified"},400
                @after_this_request
                def cookieSender(response):
                    access_token=jwt.encode(
                        {"email":email,"ip":ip},app.app.config['SECRET_KEY']
                    )
                    #
                    response.set_cookie("access_token",str(access_token),httponly=True,samesit
e=None,path="/")
                    #

```

```
response.set_cookie("email",str(email),httponly=True,samesite=None,path="/"
/)
    response.headers.add('Set-
Cookie',f'access_token={str(access_token)}; SameSite=None; Secure;
HttpOnly; Path=/')
    response.headers.add('Set-Cookie',f'email={str(email)};
SameSite=None; Secure; HttpOnly; Path=/')
    return response

    return {"status": "Successfully Logged in"},200
```

8.2 GITHUB LINK

<https://github.com/IBM-EPBL/IBM-Project-7472-1658858195>