PROJECT REPORT

ON

NEWS APP

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

INSITUTE OF ENGINNERING & TECHNOLOGY

GLA UNIVERSITY, MATHURA

SUBMITTED TO

Mr. Akash Kumar Choudhary

(Technical Trainer)

SUBMITTED BY:

Prashant dhangar (201500503)

Sarvagya Bansal (201500622)

DECLARATION

I would like to express my special thanks of gratitude to my project guide **Mr. Akash Kumar Choudhary (Technical Trainer)** mam who gave me the golden opportunity to do this wonderful project on the topic **News app**, which also helped me in doing a lot of research and I came to know about so many new things I am really thankful to them.

Secondly, I would also like to thank my parents and friends who helped me a lot in finalizing this project within the limited time frame.

SUBMITTED BY:

Prashant Dhangar (201500503)

Sarvagya Bansal (201500622)

CERTIFICATE

Certified that this project report NEWS APP is the bonafide work of Prashant

Dhangar, and Sarvagya Bansal who carried out the project work under my

supervision.

SUPERVISOR

Mr. Akash Kumar Choudhary

(Technical Trainer)

Table of Content

INTRODUCTION

Newspaper is one of the most popular and required assets of our daily lives. And, in today's hectic world, reading newspaper has become one of the traditional ways of reading the news. With the news being created every minute and relayed through TV, radio and internet, the updated news is already old by the next morning. And, that's why newspaper and magazine publishers are struggling to keep-up with the pace. Change is needed and Today magazine and newspaper lovers are moving towards reading news on mobiles and tablets

So keeping this in the mind our main objective is to create a system in which we allows users to browse through news headlines for different categories such as Top Stories, General, Business, Technology, Entertainment, and so on. Furthermore, the app lets users glance through the news. The app makes use of Integration to fetch data from third-party Free APIs, and then populates the data to the front end of the app.
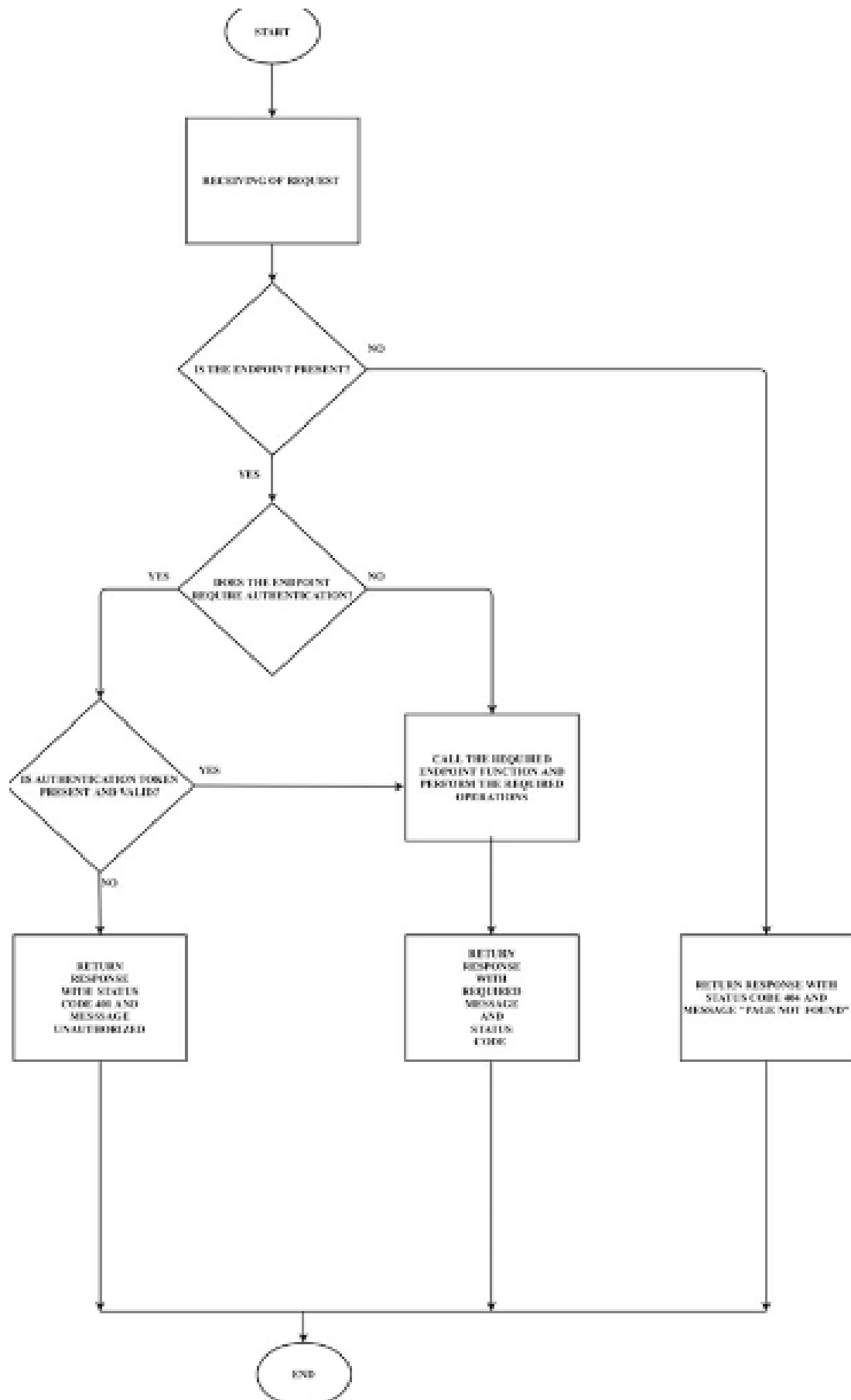
PROJECT- DESCRIPTION

The News-App showcases all the headlines along with a list of news categories. By default, the News screen showcases the Top Stories category. The Top Stories category illustrates important news headlines and also displays information on it. The news headlines are arranged in a card format. You can select any news item (card) to open the news article associated with it. When you click any news item, the app opens a window that showcases the news article. If you want to view the news article in your browser, click Open in Browser.
One of the factors in successful news app development is visualization of news and

its feature with user. For the development of an 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. 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.

This User interface will be connected to API and its 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. News API has been used for collecting different news sources at one spot. On sending request it will give response in JSON format which contains source id, title, description, image URL, article URL, author, time etc. We need to handle and parse this JSON into string format which is our required format.

```
                          START


                    RECEIVING OF REQUEST


                                              NO
              IS THE ENDPOINT PRESENT?


                        YES


        YES        DOES THE ENDPOINT           NO
                  REQUIRE AUTHENTICATION?


                                          CALL THE REQUIRED
                                        ENDPOINT FUNCTION AND
     IS AUTHENTICATION TOKEN    YES    PERFORM THE REQUIRED
       PRESENT AND VALID?                    OPERATIONS


              NO


        RETURN              RETURN
       RESPONSE            RESPONSE
      WITH STATUS            WITH            RETURN RESPONSE WITH
      CODE 401 AND         REQUIRED         STATUS CODE 404 AND
        MESSAGE            MESSAGE       MESSAGE "PAGE NOT FOUND"
      UNAUTHORIZED           AND
                            STATUS
                             CODE


                           END
```

TECHNOLOGY USED

We have used **REACT JS** to implement it in our project. React (also known as React.js or React-JS) is a free and open-source front-end JavaScript library for building user interfaces based on UI components. It is maintained by Meta (formerly Facebook) and a community of individual developers and companies. React can be used asa base in the development of single-page, mobile, or server-rendered applications with frameworks like Next.js. However, React is only concerned with state management and rendering that state to the DOM, so creating React applications usually requires the use of additional libraries for routing, as well as certain client side functionalit

SYSTEM REQUIREMENTS

Software Requirement-

- JSDK1.5

- React-JS

- Oracle 8i

- Ethernet Adapter

- 512 MB Ram □ Window 10 and Above

Hardware Requirement –

- x86_64 CPU architecture; 2nd generation Intel Core or

  newer

- 8 GB RAM or more

- 8 GB of available disk space minimum

IMPLEMENTATION

Final Code –

NAV-BAR CODE

```
import React from 'react'

import{NavLink}from "react-router-dom";


const Navbar=()=>{


  return (

    <div>

    <nav className="navbar fixed-top navbar-expand-lg navbar-dark bg-dark body-tertiary
;">

  <div className="container-fluid ">

   <NavLink className="navbar-brand " to="/">NewsBoy</NavLink>

   <button className="navbar-toggler " type="button" data-bs-toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">

    <span className="navbar-toggler-icon "></span>

   </button>

   <div className="collapse navbar-collapse" id="navbarSupportedContent">

    <ul className="navbar-nav me-auto mb-2 mb-lg-0">

     <li className="nav-item"><NavLink className="nav-link" aria-current="page"
to="/">Home</NavLink></li>

     <li className="nav-item"><NavLink className="nav-link"
to="/business">Business</NavLink></li>

     <li className="nav-item"><NavLink className="nav-link"
to="/entertainment">Entertainment</NavLink></li>

     <li className="nav-item"><NavLink className="nav-link"
to="/health">Health</NavLink></li>
```

```jsx
        <li className="nav-item"><NavLink className="nav-link"
to="/science">Science</NavLink></li>

        <li className="nav-item"><NavLink className="nav-link"
to="/sports">Sports</NavLink></li>

        <li className="nav-item"><NavLink className="nav-link"
to="/technology">Technology</NavLink></li>

</ul>

<span className="navbar-text"><NavLink className="nav-link"
to="https://www.linkedin.com/in/sarvagya-bansal" target={'_blank'}>WebApp Designed By -
Sarvagya Bansal</NavLink></span>

    </div>

   </div>

</nav>

     </div>

   )

 }


export default Navbar
```

APP. JS CODE

```jsx
import './App.css';

import React, { useState } from 'react'

import Navbar from './component/Navbar';

import News from './component/News';

import{BrowserRouter,Routes,Route,}from "react-router-dom";

import LoadingBar from 'react-top-loading-bar'



const App = (props)=> {

 const pageSize=21;//number of news to be diplayed on one page//

  const apik=process.env.REACT_APP_NEWS_API;
```

```jsx
 const coun="in"


 const[progress,setProgress]=useState(0);
   return (
   <BrowserRouter>
     <Navbar/>
     <LoadingBar
     height={3}
     color='#f11946'
     progress={progress}
    />
     <div>
     <Routes>
    <Route exact path="/" element={<News key='General'  setProgress={setProgress} api={apik} pageSize={pageSize} country={coun} category='' />} />
    <Route exact path="/business" element ={<News key="business" setProgress={setProgress}api={apik} pageSize={pageSize} country={coun} category="Business"/>}/>
    <Route exact path="/entertainment" element ={<News key="entertainment" setProgress={setProgress}api={apik} pageSize={pageSize} country={coun} category="Entertainment"/>}/>
    <Route exact path="/health" element ={<News key="health" setProgress={setProgress}api={apik} pageSize={pageSize} country={coun} category="Health"/>}/>
    <Route exact path="/science" element ={<News key="science" setProgress={setProgress}api={apik} pageSize={pageSize} country={coun} category="Science"/>}/>
    <Route exact path="/sports" element ={<News key="sports" setProgress={setProgress}api={apik} pageSize={pageSize} country={coun} category="Sports"/>}/>
    <Route exact path="/technology" element ={<News key="technology" setProgress={setProgress}api={apik} pageSize={pageSize} country={coun} category="Technology"/>}/>
```

```
        </Routes>

      </div>

      </BrowserRouter>

  )}

export default App;
```

NEW BOX

```
import React from 'react'

const NewsItem = (props) => {

let {title,description,imageurl,url,author,date}=props;

return (

<div className="container my-3" >

<div className="card" style={{height:"500px"}}>

<img
src={imageurl?imageurl:"https://media.istockphoto.com/id/1357365823/vector/default-
image-icon-vector-missing-picture-page-for-website-design-or-mobile-app-no-
photo.jpg?s=612x612&w=0&k=20&c=PM_optEhHBTZkuJQLlCjLz-v3zzxp-1mpNQZsdjrbns="}
className="card-img-top" alt="..." style={{height:"250px",width:"390px"}}/>

<div className="card-body">

  <h5 className="card-title">{title}...</h5>

  <p className="card-text">{description}...</p>

  <p className="card-text"><small className="text-muted">Article By
{author?author:"Unknown"} on {new Date(date).toString()}</small></p>

  <a rel="noreferrer" href={url}target="_blank" className="btn btn-sm btn-dark">Read
More</a>

</div>

</div>

</div>

)

}

export default NewsItem
```

Outputs

NewsBoy   Home   Business   Entertainment   Health   Science   Sports   Technology   Website Designed By - Sarvagya Bansal

NewsBoy - Top Technology Headlines of the day

How to fix Minecraft error 502 - Sportskeeda...

Minecraft is an unbelievably big sandbox game that has been around for over a decade....

Article By Rohan Jaiswal on Fri, 10 Mar 2023 17:33:21 GMT

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Article By HospiMedica International on Fri, 10 Mar 2023 17:30:56 GMT

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<u>CONCLUSION</u>

News apps have become increasingly popular in recent years, as more and more people prefer to consume news on their smartphones and other mobile devices. These apps provide a convenient way for users to stay up-to-date on the latest news and events, personalized to their interests and preferences. One advantage of news apps is that they can deliver news stories in real-time, allowing users to receive breaking news alerts and updates as they happen. Additionally, news apps often allow users to customize their news feed by selecting the topics and sources that interest them the most. However, it's important to note that not all news apps are created equal. Some may have biased or inaccurate reporting, while others may prioritize sensational stories over important but less attention-grabbing news. Users should also be cautious of news apps that require personal information or have privacy concerns. Ultimately, the effectiveness and value of a news app depend on the user's preferences, goals, and priorities. Users should research and compare different news apps before choosing one that suits their needs and interests.

Github Link <u>Codeline</u>

https://github.com/Dhangarprashant/NEWS-APP

<u>Refrences</u>

❖ **Books:**

• HTML

  ➢ HTML – by Jon Duckett

  ➢ Head First HTML and CSS by Elizabeth Robson and Eric Freeman

• CSS

  ➢ CSS – by Eric A. Meyer

  ➢ CSSbyJonDucket

- JAVASCRIPT

  - ➢ **You Don't Know JS by Kyle Simpson**

  - ➢ **A Smarter Way to Learn JavaScript by Mark Myers**

❖ Websites:

- www.geeksforgeeks.org
- www.reactjs.org
- www.projectdeveloper.com
- www.javatpoint.com
- www.youtube.com

THANK YOU