KASHI INSTITUTE OF MANAGEMENT AND SCIENCE

MIRZAMURAD, VARANASI (221307)

MAHATMA GANDHI KASHI VIDYAPITH

VARANASI UTTER PRADESH

Project on :-   Daily News Network

SUBMITTED BY –   SUBMITTED TO :-

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Roll No. :- 112321407051

Internal guid sign. :-   External guid sign. :-

MAHATMA GANDHI KASHI VIDYAPITH

Certificate of Originality

I hereby declare that the Project entitled "**Daily News Network**" submitted to the Department of information Technology, **Kashi Institute of Managementt And Science, Varanasi Utter Pradesh** in partial fulfilment for the award of the **Degree of Bachelor In Computer Application**. In session 2020-23 is an authentic record of my own work carried out under the supervision and guidance of **Mr. Tapash Kumar Saha** and that the Project has not previously formed the basis for the award of any other degree.

Date : ……………..   Signature of the Candidate

                                                      Shashikant Vishwakarma

                                                       (112321407051)

This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

1.Signature of internal guide :

2. Signature of external guide :

KASHI INSTITUTE OF MANAGEMENT AND SCIENCE

!! Certificate !!

This is to certify that the project is titled **Daily News Network** . This project is submitted by **SHASHIKANT VISHWAKARMA (BCA 2020-23)** from KASHI INSTITUTE OF MANAGEMENT AND SCIENECE in fulfillment of the requirements for **Bachelor's in Computer Application** .This project was an authentic work done under the supervision and guidance of **MR. TAPASH KUMAR SAHA** . This project has not been submitted to any other institution for the award of a diploma.

Date : ……………..

Signature of the Candidate

Shashikant Vishwakarma

(112321407051)

1.Signature of internal guide :

2. Signature of external guide :

<u>ACKNOWLEDGEMENT</u>

I feel a great pleasure to express my deep sense of gratitude to all those who has helped me directly or indirectly in preparation of this project designing part. It is very exciting for me to work on designing part of the project "<u>Daily News Network</u>". During this work I have gained both practical as well as theoretical knowledge of great significance and important.

This satisfaction that accompanies that the successful completion of any Task would be incomplete without the mention of people whole cooperation made it possible whose constant Guidance and Encouragement Crown all efforts with success. I am greatly obliged to my mentor "<u>Mr. Tapas Saha</u>" for his continuous guidance, support and help. I am grateful to <u>KASHI INSTITUTE OF TECHNOLOGY , Varanasi</u> for providing such a golden opportunity to work and learn under an excellent guidance to the completion of designing part on this project. Finally I would like to thank <u>Mr. Pradeep Kumar</u>, (Head of Department [BCA]), whose perfect Guidance helped me in completing this task. I also thank my colleagues who have helped in successful completion of the project effectively and on time.

Abstract

The Purpose of "Daily News Network" is to automate the existing manual system by the help of computerized equipment and full-fledged Website that works on a browser. The required software and hardware are easily available and easy to work with Daily News Network, as described above, can lead to error free, secure, reliable and fast management. Basically the project describes how to manage for good performance and better services to the peoples who are taking interest in reading the news. The website will show result news after the search. The user have the control of interest that he/she can search according to the interest fields. The website also contain the feature of selecting the category of the news.

Table of content

FEASIBILITY ANALYSIS

We will focus on the following set of requirements while designing the News Website Name Daily News Network:

Feasibility study :

Every project is feasible for given unlimited resources and infinitive time. Feasibility study is an evaluation of the proposed system regarding its workability, impact on the organization, ability to meet the user needs and effective use of resources. Thus, when a new application is proposed it normally goes through a feasibility study before it is approved for development . Feasibility and risk analysis and related in many ways. If a project risk is great and feasibility of producing software is reduced. During the feasibility analysis in this project has been discussed below in the abovementioned topics.

Operational Feasibility :

Feasibility of the working of the system after the installation in the organization as mentioned in the feasibility analysis.

Technical feasibility :

Technical feasibility is frequently the most difficult area to ensure this stage. It is essential that the process of analysis and definition to be conducted parallel to an assessment of the technical feasibility. The consideration that is normally associated with technical feasibility includes the resources availability of the Organization where the project is to be developed and implemented. By taking these facts into consideration before developing the resource availability at average house was observed. As very limited resources are required for this project hence this project is considered feasible for development

SYSTEM ANALYSIS

System analysis, or end-to-end testing, tests a completely integrated system to verify that it meets its requirements. For example, a system test might involve testing a main page interface, then selecting the news, then reading full blog or saving the news.

In addition, the software testing should ensure that the program, as well as working as expected, does not also destroy or partially corrupt its operating environment or cause other processes within that environment to become inoperative (this includes not corrupting shared memory, not consuming or locking up excessive resources and leaving any parallel processes unharmed by its presence).

<u>OBJECTIVE</u>

The website is very simple in design and to implement. The website requires very low system resources and the system will work in almost all configurations, must needed a browser with internet connection.

It has got following features:

• **Reduce the paper work for news.**

• **Minimum time needed for the processing.**

• **Greater efficiency.**

• **Better service.**

• **User-friendliness and interaction.**

• **Minimum time required to get news.**

• **It saves more time.**

• **It save the people's money.**

• **It is made to get good news in easy way.**

INTRODUCTION

This document describes the various function of my project. The actual design of the modules and components of "Daily News Network" is described in this document, which takes care of various functionalities that our project aims to achieve and for determining the operating characteristics of the system.

"Daily News Network" is a website to get the news where we can read the articles and the blogs of the news companies. In this we can see the news in different fields according to our interest. The website has been developed using Ejs Html, CSS for frontend and Javascript, NodeJs and and an external public news API for backend.

Because of the Visual features, the website is very user friendly. This version of the website has easy use approach. For further enhancement or development of the package, user's feedback will be considered.

The basic aim of this project is to make a website that gives news in easy way.

Thank You !!

Software & Hardware Requirement

Minimum hardware requirement :-

- **Processor - core i3**
- **RAM - 2GB or more**
- **Hard Disk - 30 GB**
- **Monitor - Any Monitor**
- **Key Board - 102 keys**
- **A Web Browser with Internet**
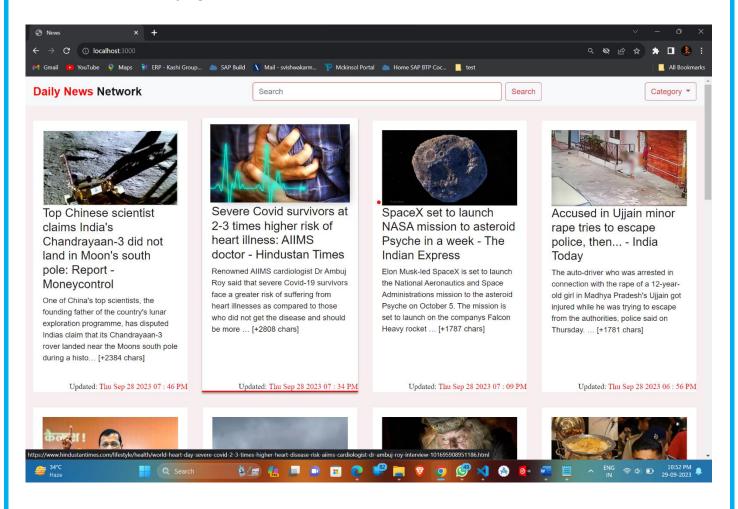
Minimum software requirement :-

- **Operating System – any that support a browser (windows, macOs, Linux)**
- **Languages – Javascript**
- **Front End – HTML,EJS,CSS JAVASCRIPT**
- **Back End – JAVASCRIPT, NODE, EXPRESS**
- **IDE – Visual Studio Code**
- **Browser : Google Chrome**

Design and Source code

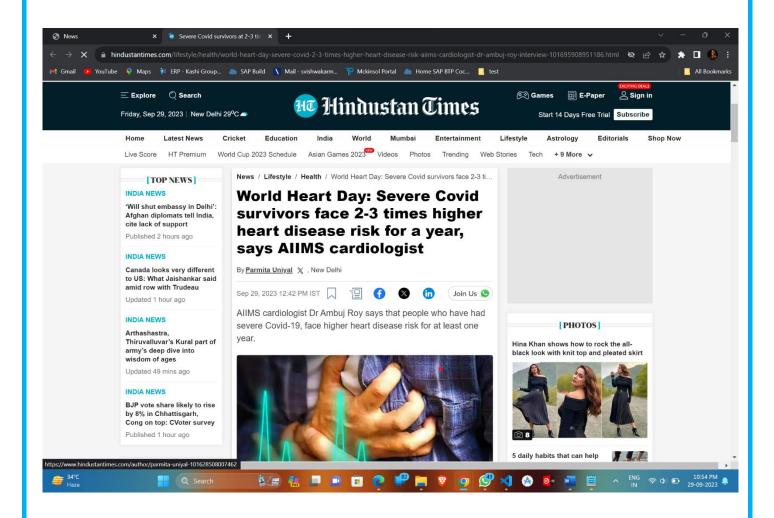**Lets see working design : -**

Main Page-

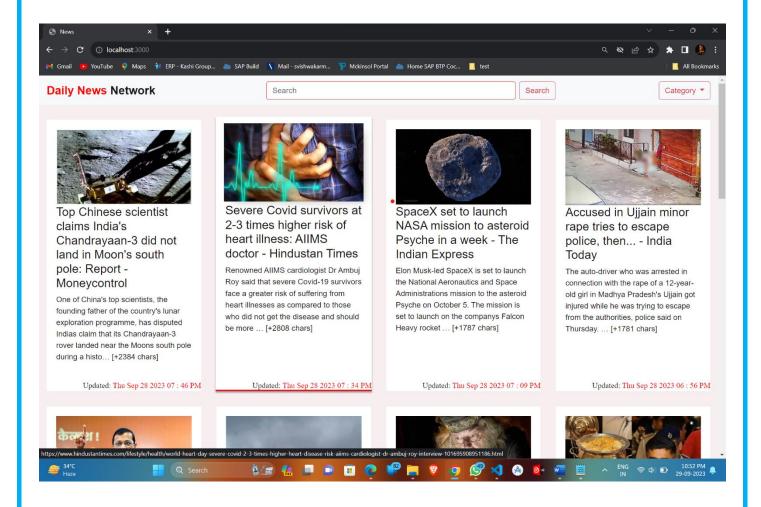**On the main page we see the latest news head lines..**

If we want to read the full article or blog of this page then we click on that like we clicked on 2ⁿᵈ news…

Then it takes us to on the official website of the news provider compay i.e Hindustan Times.
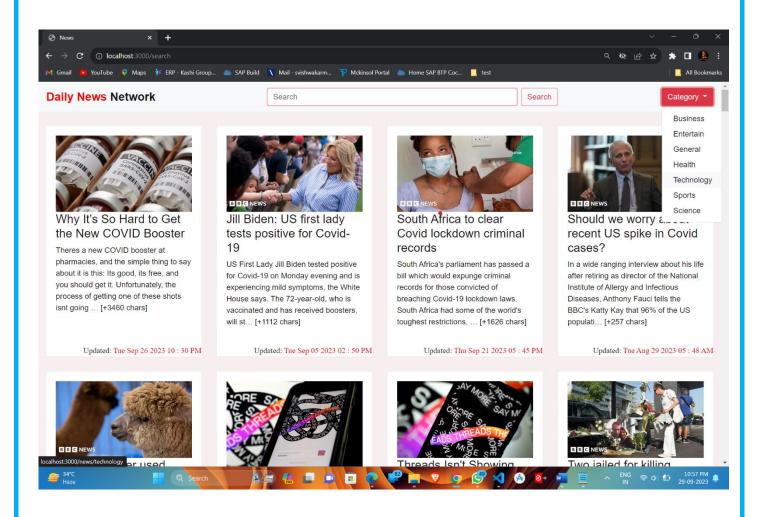
Here we can read the full information of the news.
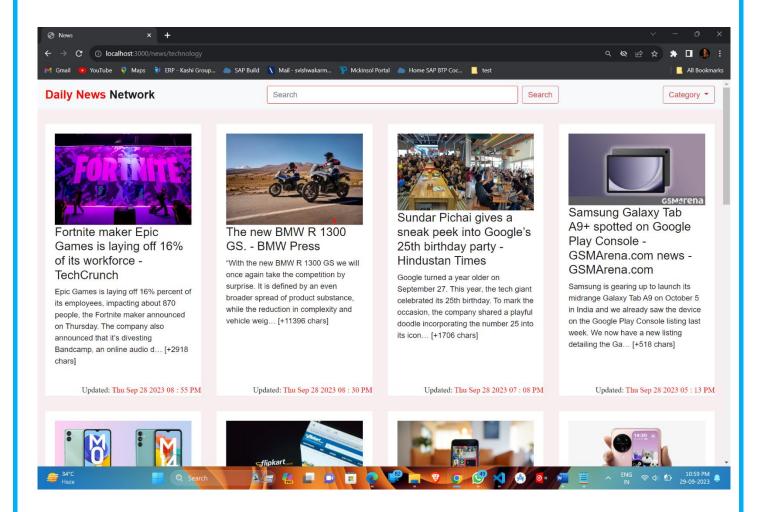
Now, Lets get back to the main page……

So, If we want to see the news of a particular category…

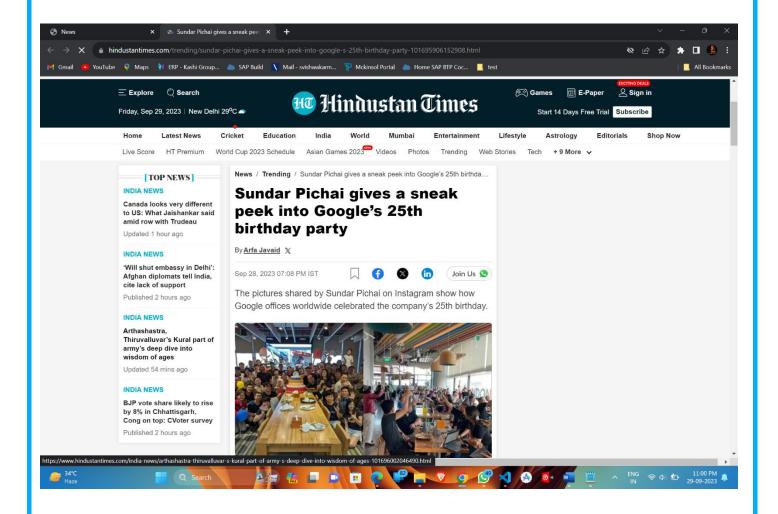**Then we can select the category from the right upper corner option !!**

Now, if we select the category technology…

Then it shows the news related to the Technology (means News of tech category)…

Then we can click according to interest to read full news..

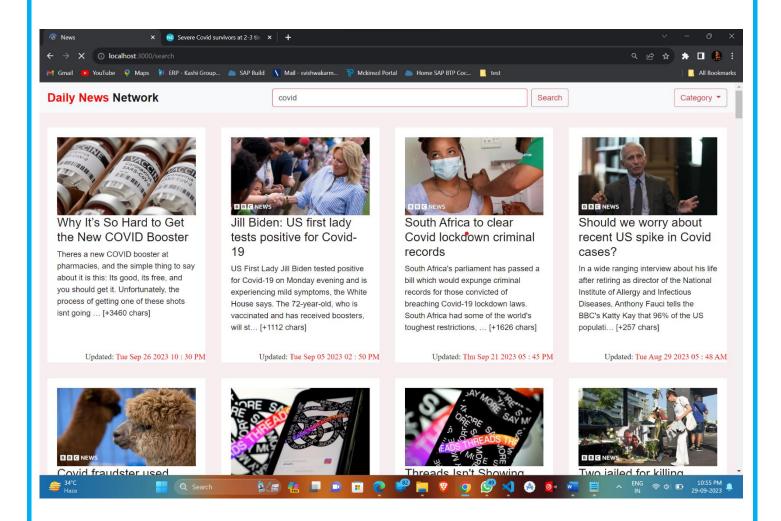**Lets click on 3ʳᵈ news headline..**

Now we can read the full news on official website of the news provider.

(P.T.O.)

Now, if we want to search any particular news..

Then we can do it by using search box…

So let's.. search Covid

Here, we can see that the news here are from the covid reted.

Lets see the source code : -

Frontend--

Views(folder)

    Partials(folder)

        header.ejs


```html
<!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">
    <title>News</title>
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
        integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
        <link rel="preconnect" href="https://fonts.gstatic.com">
        <link
href="https://fonts.googleapis.com/css2?family=PT+Sans:ital@1&display=swap"
rel="stylesheet">
        <link rel="stylesheet" href="/css/style.css">
        <style>
            .form-control{
                border-color: red;
            }
        </style>
</head>
```

navbar.ejs

```
<nav class="navbar navbar-expand-lg navbar-light bg-light navbar-fixed-top
fixed-top">
    <a class="navbar-brand" href="/" style="font-weight: 700;
    font-size: 24px;"> <span style="color: red;" >Daily News</span>
Network</a>
    <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarSupportedContent"
        aria-controls="navbarSupportedContent" aria-expanded="false" aria-
label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
    </button>

    <div class="collapse navbar-collapse searc-bar"
id="navbarSupportedContent">

        <form class="form-inline my-2 my-lg-0" action="/search" method="POST">
            <input class="form-control mr-sm-2" name="search" type="search"
placeholder="Search" style="width: 522px;"
                aria-label="Search">
            <button class="btn btn-outline-danger my-2 my-sm-0"
type="submit">Search</button>
        </form>
    </div>
    <div class="dropdown">
        <button type="button" class="btn dropdown-toggle btn-outline-danger
my-2 my-sm-0" data-toggle="dropdown">
          Category
        </button>
        <div class="dropdown-menu">
          <a class="dropdown-item" href="/news/business">Business</a>
          <a class="dropdown-item" href="/news/entertainment">Entertain</a>
          <a class="dropdown-item" href="/news/general">General</a>
          <a class="dropdown-item" href="/news/health">Health</a>
          <a class="dropdown-item" href="/news/technology">Technology</a>
          <a class="dropdown-item" href="/news/sports">Sports</a>
          <a class="dropdown-item" href="/news/science">Science</a>

        </div>
      </div>
</nav>
```

category.ejs

```
<%- include("partials/header.ejs") %>

<body>

<%- include("partials/navbar.ejs") %>

    <div class="news-container ">
        <div class="news ">

            <% articles.forEach(function(article,index){ %>

                <% if ((typeof article.url=='object') || (typeof
article.title=='object') || (typeof article.urlToImage=='object') || (typeof
article.content=='object')){ %>
                    <% } else{ %>
                        <a href="<%- article.url %>" target="_blank"
class="news-box Hover-effect">

                            <img src="<%- article.urlToImage %>" alt="Image">
                            <h3>
                                <%- article.title %>
                            </h3>


                            <p>
                                <%- article.content.replace(/<[^>]+>/g, '') %>
                            </p>
                            <br>
                            <p style="margin-bottom: 0px; position: absolute;
right: 0; bottom: 0; font-family: ui-monospace;">Updated: <span
style="color:red;" ><%- new
Date(article.publishedAt.slice(0,10)).toDateString() %>    <%-
moment.utc(article.publishedAt).local().format('hh : mm A') %> </span></p>


                        </a>
                        <% } %>
                        <% }) %>
            </div>
```

```html
        </div>
        <script src="moment.js"></script>
<script src="moment-timezone-with-data.js"></script>
        <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
integrity="sha384-
KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
crossorigin="anonymous"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js
" integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
crossorigin="anonymous"></script>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"
integrity="sha384-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYl"
crossorigin="anonymous"></script>
</body>

</html>
```

news.ejs

```
<%- include("partials/header.ejs") %>

<body>

<%- include("partials/navbar.ejs") %>

    <div class="news-container ">
        <div class="news ">

            <% articles.forEach(function(article,index){ %>

                <% if ((typeof article.url=='object') || (typeof
article.title=='object') || (typeof article.urlToImage=='object') || (typeof
article.content=='object')){ %>
                    <% } else{ %>
                        <a href="<%- article.url %>" target="_blank"
class="news-box Hover-effect">

                            <img src="<%- article.urlToImage %>" alt="Image">
                            <h3>
                                <%- article.title %>
                            </h3>


                            <p>
                                <%- article.content.replace(/<[^>]+>/g, '') %>
                            </p>
                            <br>
                            <p style="margin-bottom: 0px; position: absolute;
right: 0; bottom: 0; font-family: ui-monospace;">Updated: <span
style="color:red;" ><%- new
Date(article.publishedAt.slice(0,10)).toDateString() %>    <%-
moment.utc(article.publishedAt).local().format('hh : mm A') %> </span></p>


                        </a>
                        <% } %>
                <% }) %>
        </div>
    </div>

<script src="moment.js"></script>
<script src="moment-timezone-with-data.js"></script>
    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
integrity="sha384-
```

```html
    KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
    crossorigin="anonymous"></script>
    <script
    src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js
    " integrity="sha384-
    ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
    crossorigin="anonymous"></script>
    <script
    src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"
    integrity="sha384-
    JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYl"
    crossorigin="anonymous"></script>
    </body>

    </html>
```

public\css(folder)

style.css

```css
body{
    margin: 0;
    font-family: sans-serif;
    background-color: rgba(245, 238, 238, 0.89);
}
nav{
    margin-bottom: 40px;
}
img{
    max-width: 100%;
    transition: all 0.7s ;
}

.Hover-effect:hover{
    transform:  translateY(-3px) scale(1.01);

}
.Hover-effect:hover img{
    transform:  translateY(-5px) scale(1.02);
    box-shadow: 10px 9px 17px -10px rgba(0,0,0,0.28);
}
h3{
    font-size: 1.55rem;
}
h2{
    font-size: 1.55rem;
}
.news-container{
    margin-bottom: 69px;
    padding: 0 1rem;
    padding-top: 92px;
}
.news{
    display: grid;
    grid-template-columns: repeat(auto-fill,minmax(300px,1fr));
    grid-gap: 2rem;

}
```

```css
.news-box{
    transition: all 0.3s ;
    text-decoration: none;
    color: rgb(29, 25, 25);

    background-color: white;
    padding: 20px;
}

.news-box:hover{
    text-decoration: none;
    color: rgb(29, 25, 25);;
    box-shadow: 0 3px 3px rgba(0,0,0,0.16), 0 3px 3px rgba(0,0,0,0.23);
}


.searc-bar{
    justify-content: center;
}

/* #effect ******************** */

.Hover-effect {
    position: relative;
}
:root{
    --underline_color: red;
    --underline-hight:0.175rem;
}
.Hover-effect::after {
    content: "";
    position: absolute;
    width: 100%;
    height: var(--underline-hight);
    background-color: var(--underline_color);
    left: 0;
    bottom: 0;
    transform: scale(0, 1);
    transition: transform 0.3s ease;
}



.Hover-effect:hover::after {
    transform: scale(1, 1);
}body{
    margin: 0;
    font-family: sans-serif;
    background-color: rgba(245, 238, 238, 0.89);
```

```css
        }
nav{
    margin-bottom: 40px;
}
img{
    max-width: 100%;
    transition: all 0.7s ;
}

.Hover-effect:hover{
    transform:  translateY(-3px) scale(1.01);

}
.Hover-effect:hover img{
    transform:  translateY(-5px) scale(1.02);
    box-shadow: 10px 9px 17px -10px rgba(0,0,0,0.28);
}
h3{
    font-size: 1.55rem;
}
h2{
    font-size: 1.55rem;
}
.news-container{
    margin-bottom: 69px;
    padding: 0 1rem;
    padding-top: 92px;
}
.news{
    display: grid;
    grid-template-columns: repeat(auto-fill,minmax(300px,1fr));
    grid-gap: 2rem;

}
.news-box{
    transition: all 0.3s ;
    text-decoration: none;
    color: rgb(29, 25, 25);

    background-color: white;
    padding: 20px;
}

.news-box:hover{
    text-decoration: none;
    color: rgb(29, 25, 25);;
    box-shadow: 0 3px 3px rgba(0,0,0,0.16), 0 3px 3px rgba(0,0,0,0.23);
}
```

```css
.searc-bar{
    justify-content: center;
}

/* #effect ******************** */

.Hover-effect {
    position: relative;
}
:root{
    --underline_color: red;
    --underline-hight:0.175rem;
}
.Hover-effect::after {
    content: "";
    position: absolute;
    width: 100%;
    height: var(--underline-hight);
    background-color: var(--underline_color);
    left: 0;
    bottom: 0;
    transform: scale(0, 1);
    transition: transform 0.3s ease;
}



.Hover-effect:hover::after {
    transform: scale(1, 1);
}
```

Now,

Backend------------------------------------

routs (folder)

news.js

```javascript
const express = require('express')
const axios = require('axios')
const newsr=express.Router()
const moment = require('moment')
const math = require('math')


newsr.get('/',async(req,res)=>{
    try {
        var url = 'http://newsapi.org/v2/top-headlines?' +
          'country=in&' +
          'apiKey=23a2909fa767474e80a1be104d70da61;

        const news_get =await axios.get(url)
        res.render('news',{articles:news_get.data.articles})

    } catch (error) {
        if(error.response){
            console.log(error)
        }

    }
})

newsr.post('/search',async(req,res)=>{
    const search=req.body.search
    //console.log(req.body.search)


    try {
```

```javascript
        var url =
`http://newsapi.org/v2/everything?q=${search}&apiKey=23a2909fa767474e80a1be104
d70da61`

        const news_get =await axios.get(url)
        res.render('news',{articles:news_get.data.articles})




    } catch (error) {
        if(error.response){
            console.log(error)
        }

    }
})

newsr.get('/news/:category',async(req,res)=>{
    var category = req.params.category;
    try {
        var url = 'http://newsapi.org/v2/top-headlines?country=in&category=' +
category + '&apiKey=23a2909fa767474e80a1be104d70da61;

        const news_get =await axios.get(url)
        res.render('category',{articles:news_get.data.articles})

    } catch (error) {
        if(error.response){
            console.log(error)
        }

    }
})

newsr.get

module.exports=newsr
```

Views(folder)

App.js

```javascript
const express = require('express')
const app=express()
const port = process.env.PORT||3000;
//const bodyParser = require('body-parser');
const moment = require('moment')
app.locals.moment = moment;

// template engine
app.use(express.static('public'))
app.set('view engine','ejs')

app.use(express.urlencoded({ extended: true }));
app.use('/',require('./routes/news'))

app.set('views','./views')

app.listen(port,()=> console.log("started"))
```
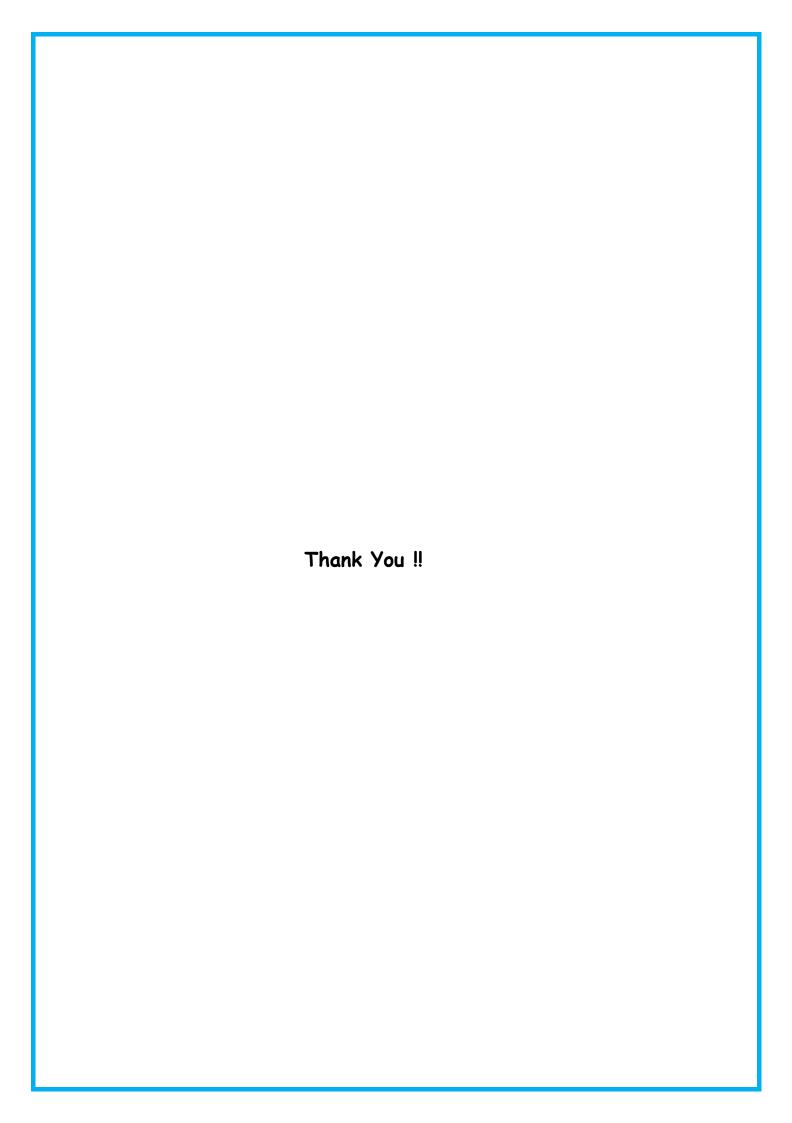
package.json

```json
{
  "name": "new",
  "version": "1.0.0",
  "description": "",
  "main": "app.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1",
    "start": "node app.js",
    "dev": "nodemon app.js"
  },
  "author": "",
  "license": "ISC",
  "dependencies": {
    "axios": "^0.23.0",
    "body-parser": "^1.19.0",
    "ejs": "^3.1.6",
    "express": "^4.18.2",
    "math": "0.0.3",
    "moment": "^2.29.1"
  },
  "devDependencies": {
    "nodemon": "^2.0.13"
  }
}
```

Thank You !!

<u>Conclusion</u>

With the theoretical inclination of our syllabus it becomes very essential to take the utmost advantage of any opportunity of gaining practical experience that comes along. The construction of this Minor Project "NEWS WEBSITE" was one of these opportunities. It gave us the requisite practical knowledge to supplement the already taught theoretical concepts thus making us more competent as a computer engineer.

The project from a personal point of view also helped us in understanding the following aspects of project

development:

- The planning that goes into implementing a project.

- The importance of proper planning and an organized methodology.

- The key element of team spirit and co-ordination in a successful project

The project also provided us the opportunity of interacting with our teachers and to gain from their vast

experience.

<u>Bibliography</u>

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- **Complete Reference -**
  - www.w3schools.com
  - www.tutorialspoint.com
  - **News API**

- **Visual Studio Code extension/features**
- www.google.com