NEWS TRACKER APPPLICATION

USING CLOUD

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

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

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BONAFIDE CERTIFICATE

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ABSTRACT

Everyone has the right to freedom of speech. However, this right is being misused to differentiate and attack others, physically or verbally, in the name of free speech. This discrimination is known as hate speech. Hate speech can be well-defined as language used to express hate towards a person or a group of people based on characteristics such as race, religion, ethnicity, gender, nationality, disability and sexual orientation. The increasing usage of social sites and information sharing has specified major benefits to humanity. However, this has also assumed rise to a variety of challenges including the spreading and sharing of hate speech messages. Thus, to solve this emerging issue in social media sites, recent studies employed a variety of machine learning and deep learning algorithms with text mining algorithm to automatically detect the hate speech messages on real time datasets. Hence, the aim of this Project is to analyses the comments on social networks using Natural Language processing technique (NLP) and Deep learning algorithm named as Back propagation neural network algorithm. Using NLP technique, can extract the keywords from user generated content and implement Back Propagation neural network to classify the text whether it is positive or negative. If it is negative means, automatically block the comments as per user wish and also block the friends based on pre-defined threshold values. Experimental results shows that the proposed framework implemented in real time social network site with improved notification .

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News Tracker Application

1.INTRODUCTION

Mobile app ecosystems are transforming patterns of news consumption. Until quite recently, reading the news was a niche use for smartphones [12], mostly for when users were ‘on the go’; now however, two in every three users of mobile devices in the US regularly access news and as many as one in five read in-depth news articles daily [2]; a similar picture is found in the UK [1]. This growth in mobile news access continues the migration of news consumers to the Internet.

Project overview

As news is increasingly accessed on smartphones and tablets, the need for personalising news app interactions is apparent. We report a series of three studies addressing key issues in the development of adaptive news app interfaces. We first surveyed users’ news reading preferences and behaviours; analysis revealed three primary types of reader. We then implemented and deployed an Android news app that logs users’ interactions with the app. We used the logs to train a classifier and showed that it is able to reliably 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.

Purpose

As our lives are very busy these days, we often feel we need more than 24 hrs. a day to cope up with everything we have in our schedule. Well, that's not possible but reducing the time by changing the conventional method of reading news can help. Just tell us what market news you're interested in and get a quick peek for the day. Only read what you feel is relevant and save your time. This app helps you to query for all information about Indices, Commodities, Currencies, Future Rates, Bonds, etc.… as on official websites.

2. LITERATURE SURVEY

Existing problem

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.

References

Like articles, websites, blogs.

https://www.researchgate.net/.

https://techvidvan.com/tutorials/android-news-app-project-source-code/

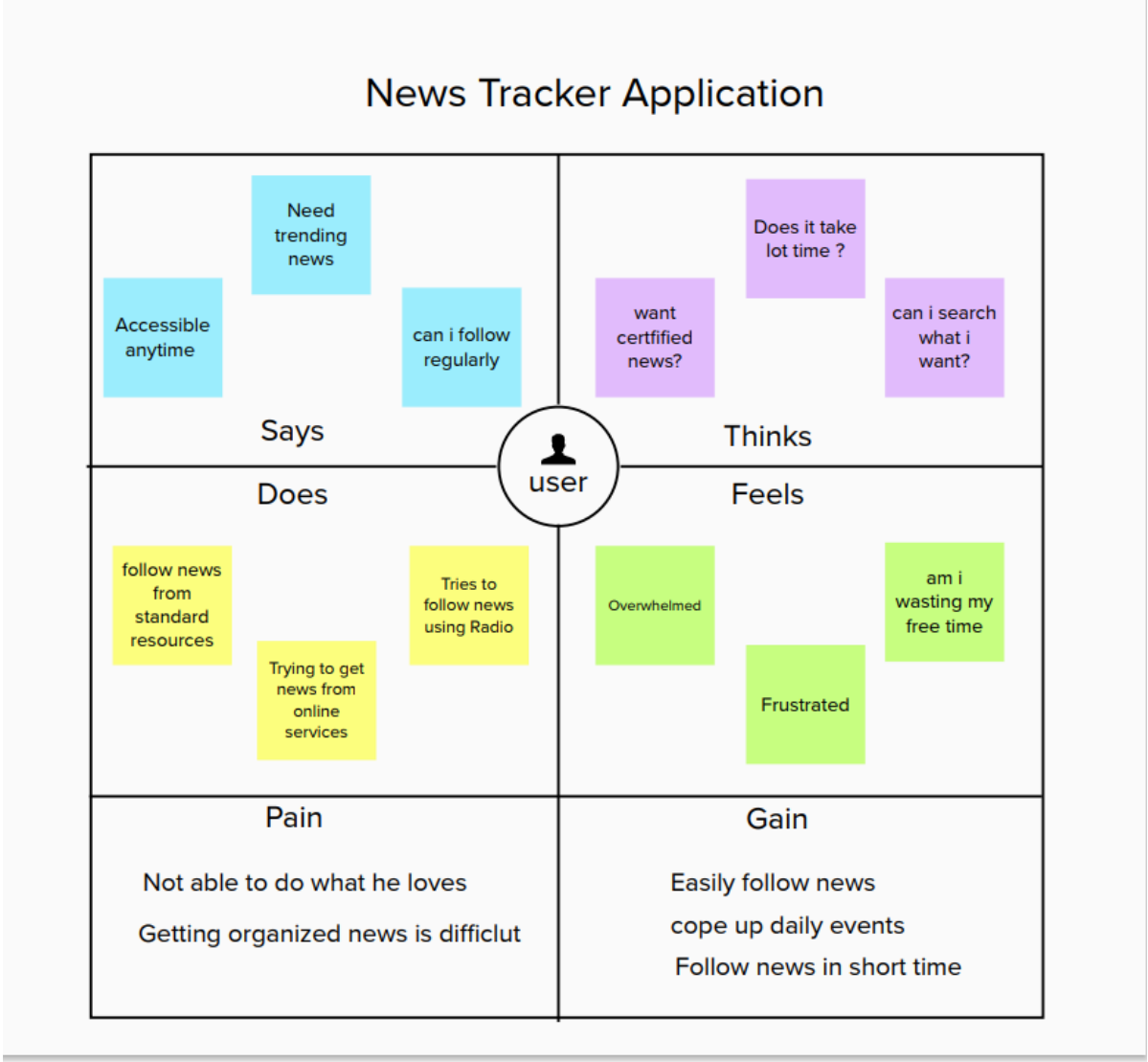
https://www.ripublication.com/

Problem Statement Definition

1. The user needs a way to organize the news on daily basis so that he can cope up with daily events in his tight schedule.
2. The user wants to read news only about particular topics so that he can be informed about his interest.
3. The user wants to get informed from only certified news outlets .
4. The user needs a way to search about the news on topics he wants to.
5. The user wants to know the news about his surrounding using GPS location.

3. IDEATION & PROPOSED SOLUTION

Empathy Map Canvas

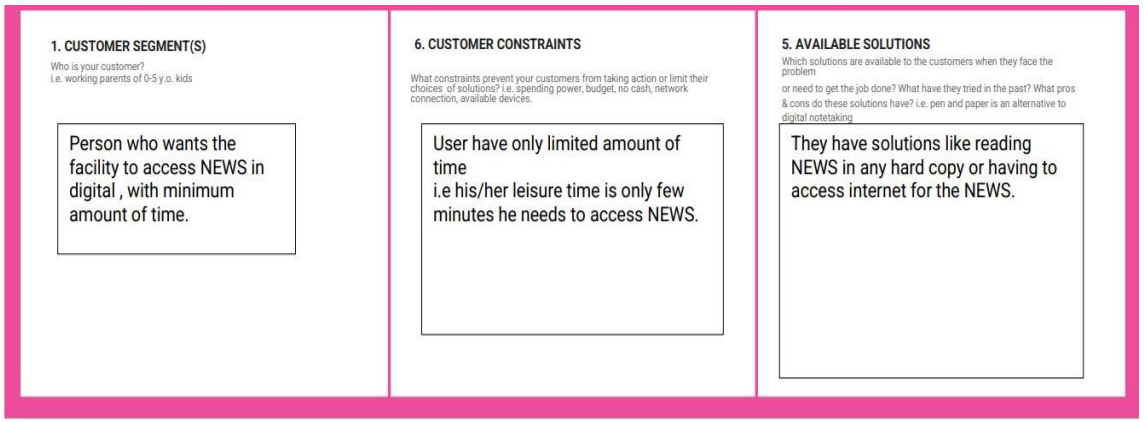


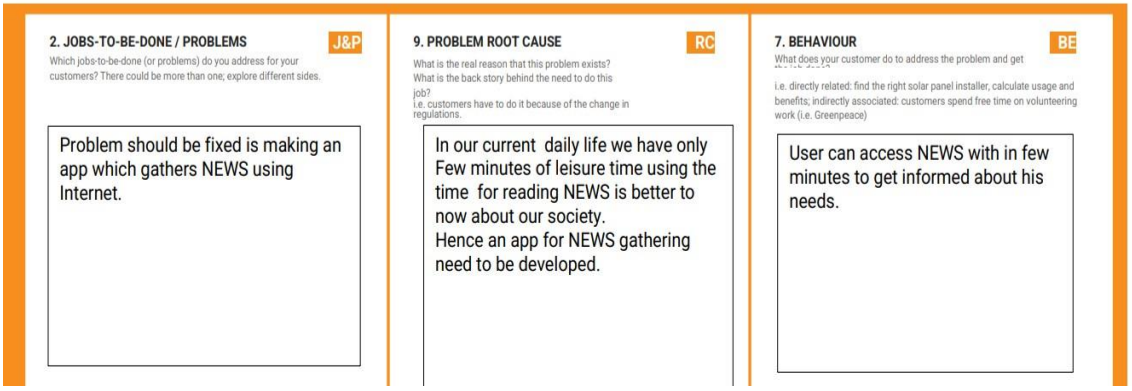
Ideation & Brainstorming

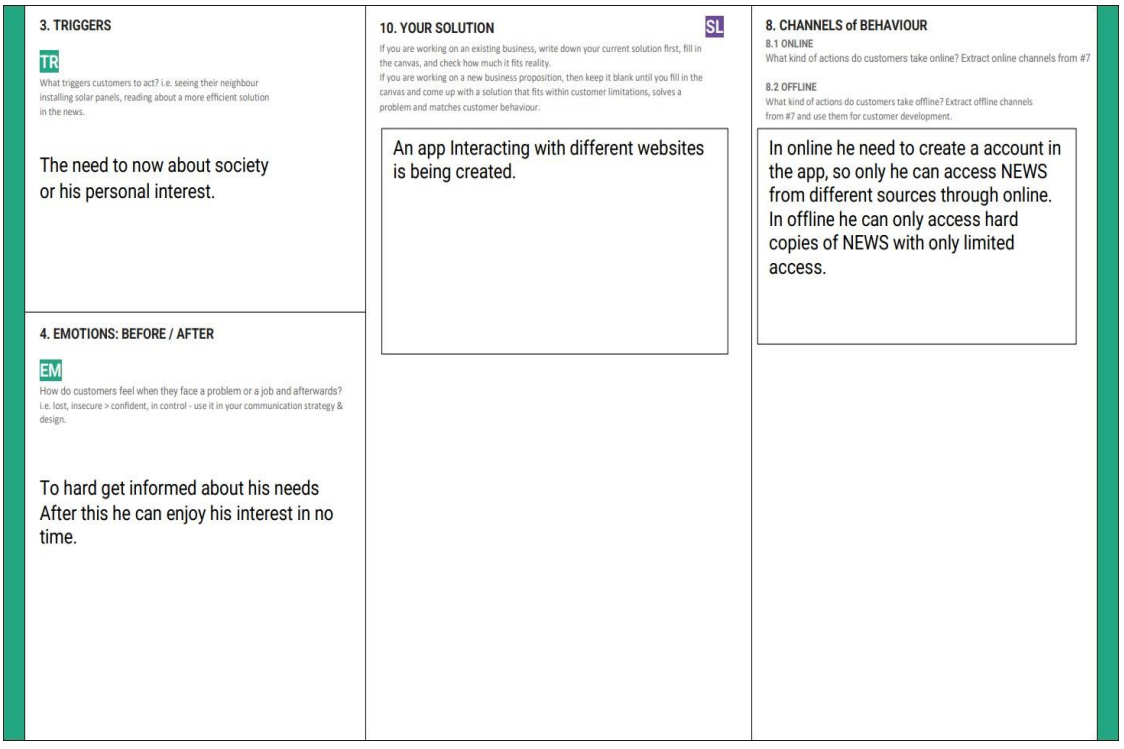
Proposed Solution

S.NO	PARAMETERS	DESCRIPTION
1.	Problem statement (problems to be solved	To help customer to access NEWS using Cloud Application.
2.	Idea/solution description	Making the customer to access news in few touch, providing authorized news, cloud based app, With tons of features to make it exciting
3.	Novelty/Uniqueness	Profile based account, like and share, download blogs, links to original publishers are provided.
4.	Social Impact/Customer satisfaction	Customer Satisfaction, Customer can follow NEWS publishers, like and share feature.
5.	Business Model (Revenue)	Showing ad, Showing a particular publishers NEWS and blogs.
6.	Scalability of the solution	Enabling the system to scalable according to the customers need

Problem Solution fit







4. REQUIREMENT ANALYSIS

Functional requirement

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Login	User using his /her device to login to the app/website for reading news
FR-4	User search	For getting news he/she must need to search the news in the given search bar, Which will collect the news according to his search from the online sources like blog, e-news paper,Articles etc
FR-5	User Reads	Gathered news will be shown to the user in short lines/ summary manner. Along with news Pictures, hyperlinks for the blog, article Or original publisher of the news is given
FR-6	User features	User can have lot of features like Like and share and Post features.

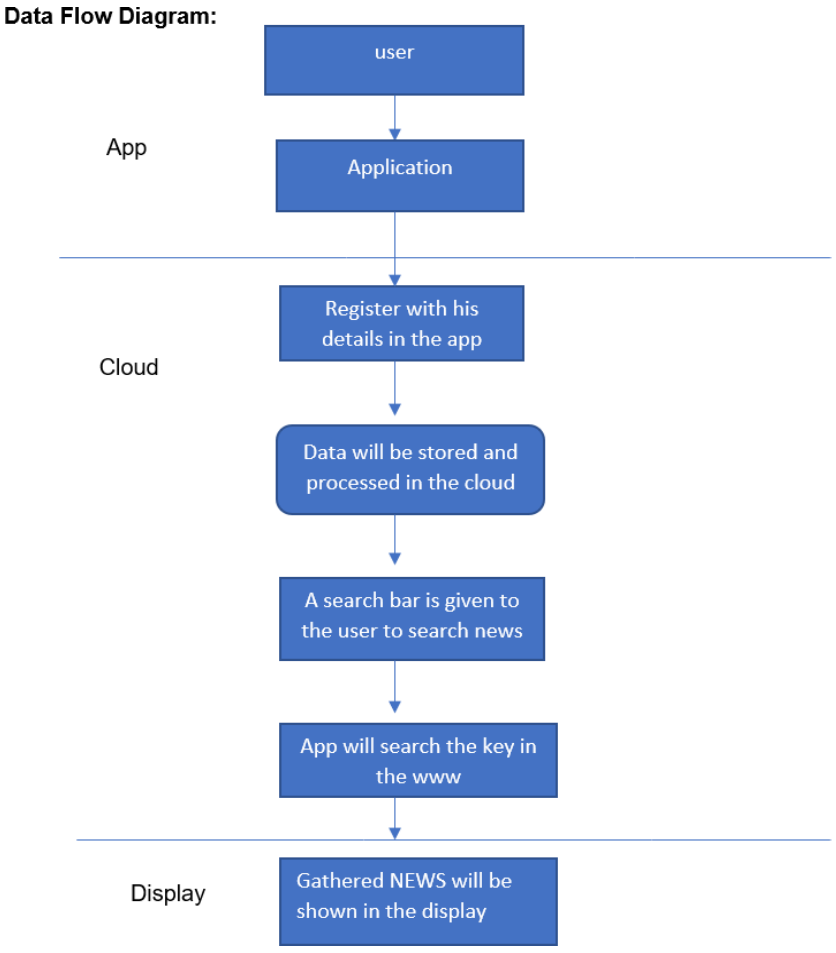
Non-functional Requirements:

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

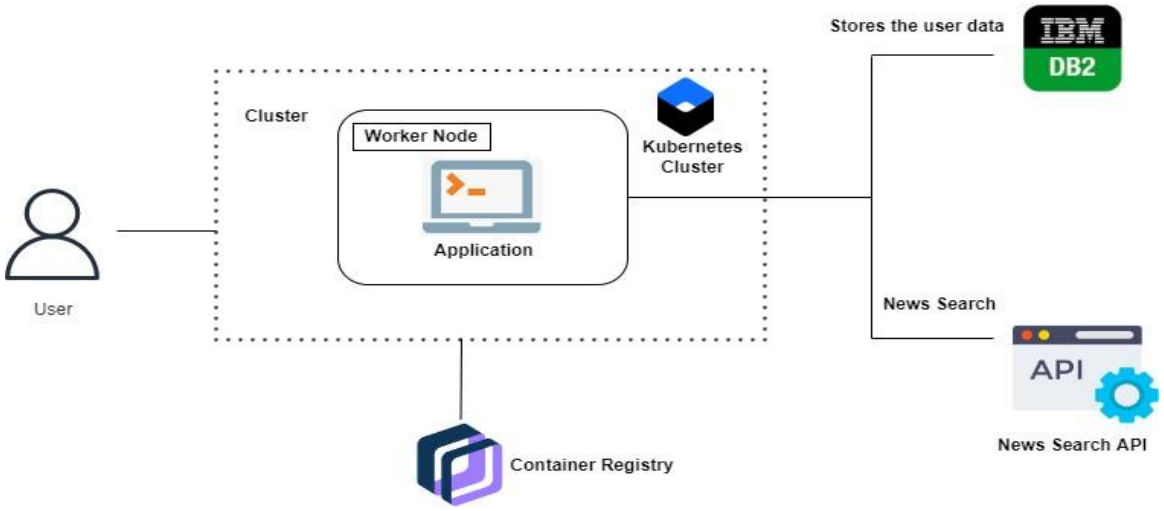
FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	For getting news he/she must need to search the news in the given search bar, Which will collect the news according to his search from the online sources like blog, e-news paper,Articles etc. Gathered news will be shown to the user in short lines/ summary manner. Along with news Pictures, hyperlinks for the blog, article Or original publisher of the news is given
NFR-2	**Security**	User's data for the Registration and data collected from his activity are maintained in high security and must be used for only product improvement. Disclosing of his/her detail is considered as a crime hence they can take any legal actions against the service provider.
NFR-3	**Reliability**	News gathered and presented to the user are from only authorized publishers, and the sources are authentic. User can relay on this app for original news .
NFR-4	**Performance**	24*7 service with best cloud service, There will be no performance issue to the users.
NFR-5	**Availability**	Can download from Playstore and online websites.
NFR-6	**Scalability**	Hence it is cloud based system Scalability will be no issue because Scalability is the prior feature of the cloud based services.

5. PROJECT DESIGN

Data Flow Diagrams



Solution & Technical Architecture



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 Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail		High	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-1
	Dashboard					
Customer (Web user)	Log in	USN-6	As a user, I can access the application through website	I can access my account / dashboard	High	
Customer Care Executive	24x7 service	USN-7	As a User, I may need help in using the app/website	Any help need	High	
Administrator	Owner/Chief executive	_	He/she will access the datas in the app	Product behaviour/Improvement purposes	Low	

6. PROJECT PLANNING & SCHEDULING

Sprint Planning & Estimation

TITLE	DESCRIPTION	DATE
Literature Survey & Information Gathering	Literature survey on the selected project & gatheringinformation by referring the,technical papers, research publications etc.	2 Sept 2022
Prepare Empathy Map	Prepare Empathy Map Canvasto capture the user Pains & Gains, Prepare list of problemstatements	10 Sept 2022

Ideation Brain Storming	List the by organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility & importance.	15 Sept 2022
Proposed Solution	Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc.	23 Sept 2022
Problem Solution Fit	Prepare problem solution fit document	28 Sept 2022
Solution Architecture	Prepare solution architecture document.	5 October 2022
Customer Journey	Prepare the customer journey maps to	7 October 2022
	understand the user interactions & experiences with the application (entry toexit).	
Solution Requirement	Prepare the functional requirement document	8 October 2022
Data Flow Diagrams	Draw the data flow diagrams and submit for review.	10 October 2022
Technology Architecture	Prepare the technology architecture diagram.	15 October 2022
Prepare Milestone & Activity List	Prepare the milestones & activity list of the project.	26 October 2022
Project Development - Delivery of Sprint-1, 2, 3 & 4	Develop & submit the developed code by testing it.	IN PROGRESS..

Sprint Delivery Schedule

Product Backlog, Sprint Schedule, and Estimation

Use the below template to create product backlog and sprint schedule

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 to the Application by using my Email and password.	10	High	Abishek,Arun kumar, Ram kumar.
Sprint-1	Confirmation mail	USN-2	Confirmation Mail will be received by the user, that he is registered for the Application.	10	High	Abishek,Arun kumar, Ram kumar.
Sprint-1	Login	USN-3	As a user I need to login to my registered mail to access the Application.	10	Low	Abishek,Arun kumar, Ram kumar.
Sprint-2	Search box	USN-4	User need search box to search the news	20	Medium	Manikandan, Gokul
Sprint-3	News gathering	USN-5	User need to get result for his search.	20	High	Ram Kumar, Manikandan
Sprint-4	Chatbot(IBM Watson)	USN-6	If user have any doubt in using the Application , Chat bot is available in the Application to help the user.	20	High	Abishek, Arun kumar, Ram kumar, Manikandan, Gokul .
Sprint-4	IBM Db2	USN-7	Application is integrated with DB2	10	High	Abishek, Arun kumar.

Reports from JIRA

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7. CODING & SOLUTIONING

Forgot password-

Forpass.html

```
<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <meta name="description" content="">
```

<meta name="author" content="Mark Otto, Jacob Thornton, and Bootstrap contributors">

<meta name="generator" content="Hugo 0.84.0">

<title>Sign In</title>

<link rel="canonical" href="https://getbootstrap.com/docs/5.0/examples/sign-in/">

<link href="https://getbootstrap.com/docs/5.0/assets/css/docs.css" rel="stylesheet">

<!-- Bootstrap core CSS -->

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/UjpbCx/TYkiZhlZB6+fzT" crossorigin="anonymous">

<!-- Favicons -->

<link rel="apple-touch-icon" href="/docs/5.0/assets/img/favicons/apple-touch-icon.png" sizes="180x180">

<link rel="icon" href="/docs/5.0/assets/img/favicons/favicon-32x32.png" sizes="32x32" type="image/png">

<link rel="icon" href="/docs/5.0/assets/img/favicons/favicon-16x16.png" sizes="16x16" type="image/png">

<link rel="manifest" href="/docs/5.0/assets/img/favicons/manifest.json">

<link rel="mask-icon" href="/docs/5.0/assets/img/favicons/safari-pinned-tab.svg" color="#7952b3">

<link rel="icon" href="/docs/5.0/assets/img/favicons/favicon.ico">

<meta name="theme-color" content="#7952b3">

```
  <style>
    .bd-placeholder-img {
      font-size:  1.125rem;
      text-anchor: middle;
      -webkit-user-select: none;
      -moz-user-select: none;
      user-select: none;
    }

    @media (min-width: 768px) {
      .bd-placeholder-img-lg {
        font-size: 3.5rem;
      }
    }
  </style>


  <!-- Custom styles for this template -->
  <link href="static/sheets/signin.css" rel="stylesheet">
  <link href="static/sheets/colors.css" rel="stylesheet">
</head>
<body class="text-center">
      <nav class="navbar navbar-dark bg-dark fixed-top">
          <div class="container-fluid">
            <a class="navbar-brand" href="#">News Tracker</a>
```

```
<button class="navbar-toggler" type="button" data-bs-toggle="offcanvas" data-bs-target="#offcanvasDarkNavbar" aria-controls="offcanvasDarkNavbar">
  <span class="navbar-toggler-icon"></span>
</button>
<div class="offcanvas offcanvas-end text-bg-dark" tabindex="-1" id="offcanvasDarkNavbar" aria-labelledby="offcanvasDarkNavbarLabel">
  <div class="offcanvas-header">
    <h5 class="offcanvas-title" id="offcanvasDarkNavbarLabel">Profile</h5>
    <button type="button" class="btn-close btn-close-white" data-bs-dismiss="offcanvas" aria-label="Close"></button>
  </div>
  <div class="offcanvas-body">
    <ul class="navbar-nav justify-content-end flex-grow-1 pe-3">
      <li class="nav-item">
        <a class="nav-link active" aria-current="page" href="home.html">Home</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="base.html">Fetch News</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="about.html">About Us</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="signin.html">Sign In</a>
      </li>
```

```
                <li class="nav-item">
                  <a class="nav-link" href="signup.html">Sign Up</a>
                </li>
              </div>
            </div>
          </div>
        </nav>
<main class="form-signin  ">
  <form action = "{{ url_for("getUser")}}" method="POST">
    <img class="mb-4" src="static/Images/house-user-solid.svg" alt="" width="72" height="57">
    <h1 class="h3 mb-3 fw-normal white">Change your password</h1>

    <div class="form-floating">
      <input type="email" class="form-control" id="floatingInput" name = "uname" placeholder="name@example.com">
      <label for="floatingInput">Email address</label>
    </div>
    <br>
    <button class="w-100 btn btn-lg btn-warning btn-outline-warning" type="submit"><a href="static/templates/changepass.html">Change Password</a></button><br><br>
  </form>
</main>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.bundle.min.js" integrity="sha384-u1OknCvxWvY5kfmNBILK2hRnQC3Pr17a+RTT6rIHI7NnikvbZlHgTPOOmMi466C8" crossorigin="anonymous"></script>
```

```
<script src="https://cdn.jsdelivr.net/npm/@docsearch/js@3"></script>

<script src="https://cdn.jsdelivr.net/npm/@stackblitz/sdk@1/bundles/sdk.umd.js"></script>


<script src="/docs/5.2/assets/js/docs.min.js"></script>


<script>

  document.querySelectorAll('.btn-edit').forEach(btn => {
    btn.addEventListener('click', event => {
      const htmlSnippet = event.target.closest('.bd-code-snippet').querySelector('.bd-example').innerHTML



      const classes = Array.from(event.target.closest('.bd-code-snippet').querySelector('.bd-example').classList).join(' ')


      const jsSnippet = event.target.closest('.bd-code-snippet').querySelector('.btn-edit').getAttribute('data-sb-js-snippet')
      StackBlitzSDK.openBootstrapSnippet(htmlSnippet, jsSnippet, classes)
    })
  })


  StackBlitzSDK.openBootstrapSnippet = (htmlSnippet, jsSnippet, classes) => {
    const markup = `<!doctype html>
<html lang="en">
  <head>
```

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link href="https:\/\/cdn.jsdelivr.net\/npm\/bootstrap@5.2.1\/dist\/css\/bootstrap.min.css" rel="stylesheet">

<link href="https://getbootstrap.com/docs/5.2/assets/css/docs.css" rel="stylesheet">

<title>Bootstrap Example</title>

<${'script'} src="https:\/\/cdn\.jsdelivr\.net\/npm\/bootstrap@5\.2\.1\/dist\/js\/bootstrap\.bundle\.min\.js"></${'script'}>

</head>

<body class="p-3 m-0 border-0 ${classes}">

<!-- Example Code -->

${htmlSnippet.replace(/^/gm, '   ')}

<!-- End Example Code -->

</body>

</html>`

const jsSnippetContent = jsSnippet ? '\/\/ NOTICE!!! Initially embedded in our docs this JavaScript\n\/\/ file contains elements that can help you create reproducible\n\/\/ use cases in StackBlitz for instance\.\n\/\/ In a real project please adapt this content to your needs\.\n\/\/ \u002b\u002b\u002b\

For details, see https:\/\/creativecommons\.org\/licenses\/by\/3\.0\/\.\n *\/\n\n\/* global bootstrap: false *\/\n\n\(\(\) =\u003e \{\n \u0027use strict\u0027\n\n \/\/ \-\-\-\-\-\-\-\-\n \/\/ Tooltips\n \/\/ \-\-\-\-\-\-\-\-\n \/\/ Instantiate all tooltips in a docs or StackBlitz page\n document\.querySelectorAll\(\u0027\[data\-bs\-toggle=\u0022tooltip\u0022\]\u0027\)\n \.forEach\(tooltip =\u003e \{\n new bootstrap\.Tooltip\(tooltip\)\n \}\)\n\n \/\/ \-\-\-\-\-\-\-\-\n \/\/ Popovers\n \/\/ \-\-\-\-\-\-\-\-\n \/\/ Instantiate all popovers in a docs or StackBlitz page\n document\.querySelectorAll\(\u0027\[data\-bs\-toggle=\u0022popover\u0022\]\u0027\)\n \.forEach\(popover =\u003e \{\n new bootstrap\.Popover\(popover\)\n \}\)\n\n \/\/ \-\-\-\-\-\-\-\-\

`\u003cdiv class=\u0022alert alert\-\$\{type\} alert\-dismissible\u0022 role=\u0022alert\u0022\u003e`,\n `\u003cdiv\u003e\$\{message\}\u003c\/div\u003e`,\n \u0027 \u003cbutton type=\u0022button\u0022 class=\u0022btn\-close\u0022 data\-bs\-dismiss=\u0022alert\u0022 aria\-label=\u0022Close\u0022\u003e\u003c\/button\u003e\u0027,\n \u0027\u003c\/div\u003e\u0027\n \]\.join\(\u0027\u0027\)\n\n alertPlaceholder\.append\(wrapper\)\n \}\n\n if \(alertTrigger\) \{\n alertTrigger\.addEventListener\(\u0027click\u0027, \(\) =\u003e \{\n appendAlert\(\u0027Nice, you triggered this alert message!\u0027, \u0027success\u0027\)\n \}\)\n \}\n\n \/\/ \-\-\-\

\-\n \/\/ Offcanvas\n \/\/ \-\n \/\/ \u0027Offcanvas components\u0027 example in docs only\n const myOffcanvas = document\.querySelectorAll\(\u0027\.bd\-example\-offcanvas \.offcanvas\u0027\)\n if \(myOffcanvas\) \{\n myOffcanvas\.forEach\(offcanvas =\u003e \{\n offcanvas\.addEventListener\(\u0027show\.bs\.offcanvas\u0027, event =\u003e \{\n event\.preventDefault\(\)\n \}, false\)\n \}\)\n \}\n\}\)\(\)\n' : null

```
    const project = {
      files: {
        'index.html': markup,
        'index.js': jsSnippetContent
      },
      title: 'Bootstrap Example',
      description: `Official example from ${window.location.href}`,
      template: jsSnippet ? 'javascript' : 'html',
      tags: ['bootstrap']
    }

    StackBlitzSDK.openProject(project, { openFile: 'index.html' })
  }
</script>
  </body>
</html>
```

8. TESTING

Test Cases

Test case

Test case	feature	component	Test scenario	Expected result	Actual result	status	comments	bug	Executed by
Sign in	Functional	Login page	Verify user can see the sign in option	can visible	Yes visible	pass	successful	-	Abishek
Sign up	Functional	Login page	Verify user has the option to sign up	Can visible	Yes visible	pass	Successful	-	Abishek
Forgot password	Functional	Login page	Verify user has the option to forgot password	Yes the option is available	Option is available	pass	Successful	-	Manikand-an

Fetch news	Functional	Home page	Verify user can get the news	News will be feed to the app	404 error	Fail	unsuccessful	App integeration problem	Arun,Ram
Types of news available in the fetch news page	Functional	Fetch news	Types of news available	Weather, Sport, Economy.	Hover buttons will be shown.	Yes	successful	-	Gokul, Abishek.

Result:

News tracker application using cloud is developed and executed at the level of completed progress .

10. ADVANTAGES & DISADVANTAGES

Advantages:-

- In this app news is already categorization.
- Easily accessible and portable.
- Better user experience.
- Apps help you convert visitors to loyal readers.
- Minute by minute updates of news.
- This app helps you to get local news updates instantly.
- To explore and discover trending news and topics.
- News feeds for you based on your interest.

Disadvantages:-

- Some apps demand premium subscription from user.
- Occurance of Advertisment disturb the user.
- Sometimes the news gives brief information.
- Prevailance of fake and uncertain news can confuse the user lead to misconception.
- Fake news may mislead the readers.

11. CONCLUSION

We explored the feasibility of recognising patterns of news reading interactions and evaluated three adaptive interface designs for different news reader types. We show that from their interaction log, a specific user can be recognised as one of three kinds. The reader types emerging from the online survey are well defined and distinct. The evaluation of the three variant interfaces suggests that different news reader types need different user interfaces. We have demonstrated a method for monitoring users' news reading behaviour and inferring news reader type from it. In the future we will further explore the design of adaptive interfaces, in order to be in a position to demonstrate a complete adaptive mobile news framework providing automatic personalisation of news apps.

12. FUTURE SCOPE

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

13. APPENDIX

Source Code:

Backend_

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>')
```

Routes_

CheckEmail.py

```
from flask import request
from flask_restful import Resource
from utils.dbQuery import selectQuery
class CheckEmail(Resource):
    def post(self):
        data=request.json
        email=str(data["email"])
        res=selectQuery("SELECT email FROM USER WHERE
EMAIL=?",(email,))
        print(res)
        if(not res):
            return {"status":True},200
        return {"status":False},400
```

Getnews.py

```
from random import random
from flask_restful import Resource
from utils.cookieChecker import token_required
from utils.dbQuery import selectQuery
from utils.apiFetch import apiData
import random
from utils.testData import retArray
class Personal(Resource):
    @token_required
    def get(email, self):
        topicsArr = ["sport", "tech", "world", "finance", "politics", "business",
                     "economics", "entertainment", "beauty", "travel", "music", "food",
"science", "cricket"]
        fav = selectQuery("SELECT favourites from user where email=?",
(email,))[
            'FAVOURITES']
```

```
        fav = fav.split(',')
        for x in fav:
            topicsArr.remove(x)
        retArr = []
        favList = []
        # favList = retArray
        nonFavList = []
        for x in fav:
            try:
                data = apiData(x)
            except:
                data=None
            if (data is not None):
                for y in data:
                    favList.append(y)
        try:
            random.shuffle(favList)
            favList = sorted(favList, key=lambda k: k['date'], reverse=True)
        except:
            favList=[]
        for x in topicsArr:
            try:
                data = apiData(x)
            except:
                data=None
            if(data is not None):
                for y in data:
                    nonFavList.append(y)
        try:
            random.shuffle(nonFavList)
            nonFavList = sorted(nonFavList, key=lambda k: k['date'], reverse=True)
        except:
            nonFavList=[]
        retArr = favList+nonFavList
        return {"data": retArr}, 200
class News(Resource):
    @token_required
```

```
    def get(email,self,topic):
        topicsArr = ["headline","sport", "tech", "world", "finance", "politics",
"business",
                     "economics", "entertainment", "beauty", "travel", "music", "food",
"science", "cricket"]
        if(topic not in topicsArr):
            return {"status":"Not a valid topic"},404
        try:
            retArr=apiData(topic)
            random.shuffle(retArr)
            retArr=sorted(retArr,key=lambda k:k['date'],reverse=True)
        except:
            retArr=[]
        return {"data":retArr},200
```

Islogin.py

```
from flask import request, after_this_request
from utils.password import checkPassword
from flask_restful import Resource
from utils.cookieChecker import token_required
class IsLogin(Resource):
    @token_required
    def get(email, self):
        return {"status": "Logged in"}, 200
```

login.py

```
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,samesite=
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
```

Register.py

```
from datetime import datetime
```

```
from flask import request,after_this_request
from flask_restful import Resource
from utils.dbQuery import insertQuery
from utils.emailSender import newEmailSender
from utils.password import genHash
class Register(Resource):
    def post(self):
        req=request.json
        name=req['name']
        email=req['email']
        password=req['password']
        favourite=req['favourite']
        fav=','.join(favourite)
        if(name=='' or email=='' or password=='' or fav==''):
            return {"status":"Missing data"},404
        password=genHash(password)
        t=(name,email,password,fav,datetime.now())
        res=insertQuery('INSERT INTO user
(name,email,password,favourites,resend_time) values (?,?,?,?,?)',t)
        if(not res):
            return {"status":"Error while registering"},400

        @after_this_request
        def emailer(response):
            newEmailSender(email)
            return response
        return {"status":"Successfully registered"},200
```

verify.py

```
from flask import request
from flask_restful import Resource
from utils.tokener import confirm_token
from utils.dbQuery import insertQuery

class Verify(Resource):
    def post(self):
        data=request.json
        token=data["token"]
        email=confirm_token(token)
        if(not email):
            return {"status":"Couldn't verify"},400
```

```
        res=insertQuery("UPDATE user set verified=True where
email=?",(email,))
        if(not res):
            return {"status":"Couldn't Update"},400
        return {"status":"verified successfully"},200
```

Utils_

apiFetch.py

```
from datetime import datetime
from time import sleep
import warnings
from dotenv import dotenv_values
from threading import *
import requests
from dateparser import parse
class Api:
    warnings.simplefilter('ignore')
    __key = dotenv_values(".env")
    __key =__key["key"]
    __apiMap = {}
    __mainApiMap = {}
    __url = "https://newscatcher.p.rapidapi.com/v1/latest_headlines"
    __headers = {
        "X-RapidAPI-Key": str(__key),
        "X-RapidAPI-Host": "newscatcher.p.rapidapi.com"
    }
    def__newCatcherRunner(self, title):
        querystring = {"topic": title, "lang": "en",
                       "media": "True", "country": "IN"}
        respone = requests.request(
            "GET", url=self._url, headers=self._headers, params=querystring)
        respone = respone.json()
        retArr = []
        for x in respone["articles"]:
            newJson = {}
            newJson["url"] = x["link"]
            newJson["title"] = x["title"]
            newJson["img"] = x["media"]
            newJson["topic"] = x["topic"]
            currTime = parse(x["published_date"])
            newJson["date"] = currTime.strftime("%d/%m/%Y")
            retArr.append(newJson)
        return retArr
    def__topHeadlinesFetcher(self):
        querystring = {"topic":"news","lang": "en","media": "True", "country": "IN"}
```

```
        respone = requests.request("GET", url=self._url, headers=self._headers,
params=querystring)
        respone = respone.json()
        retArr = []
        for x in respone["articles"]:
            newJson = {}
            newJson["url"] = x["link"]
            newJson["title"] = x["title"]
            newJson["img"] = x["media"]
            newJson["topic"] = x["topic"]
            currTime = parse(x["published_date"])
            newJson["date"] = currTime.strftime("%d/%m/%Y")
            retArr.append(newJson)
        self.__apiMap["headline"]=retArr
        print("headline fetched at "+str(datetime.now()))
    def__newsCatcherApiFetcher(self):
        arr = ["sport", "tech", "world", "finance", "politics", "business",
               "economics", "entertainment", "beauty", "travel", "music", "food", "science"]
        for x in arr:
            self._apiMap[x] = self._newCatcherRunner(x)
        print("NewsCatcher fetched at "+str(datetime.now()))
    def__cricketFetcher(self):
        url = "https://cricbuzz-cricket.p.rapidapi.com/news/v1/index"
        headers = {
            "X-RapidAPI-Key": self._key,
            "X-RapidAPI-Host": "cricbuzz-cricket.p.rapidapi.com"
        }
        response = requests.request("GET", url, headers=headers)
        response = response.json()
        response = response["storyList"]
        retArr = []
        for x in response:
            try:
                x = x["story"]
                newJson = {}
                newJson["url"] = f'https://www.cricbuzz.com/cricket-news/{x["id"]}/newsTrakcer'
                newJson["title"] = x["hline"]
                newJson["image"] =
f'https://www.cricbuzz.com/a/img/v1/500x500/i1/c{x["id"]}/abc.jpg'
                currTime = datetime.fromtimestamp(int(x["pubTime"])/1e3)
                newJson["date"] = currTime.strftime("%d/%m/%Y")
                newJson["topic"] = "cricket"
                retArr.append(newJson)
            except:
                pass
        self.__apiMap["cricket"] = retArr
        print("Cricbuzz fetched at "+str(datetime.now()))
    def newsCatcherThreader(self):
```

```
        while True:
            print("NewsCatcher fetching.... at "+str(datetime.now()))
            try:
                self.__newsCatcherApiFetcher()
                self._mainApiMap = self._apiMap
            except:
                print("Error NewsCatcher fetching.... at "+str(datetime.now()))
                pass
            sleep(30*60)
    def topHeadlinesThreader(self):
        while True:
            print("Headline fetching. ...at "+str(datetime.now()))
            try:
                self._topHeadlinesFetcher()
                self._mainApiMap = self._apiMap
            except:
                print("Error headline fetching. ...at "+str(datetime.now()))
                pass
            sleep(30*60)
    def cricbuzzThreader(self):
        while True:
            print("Cricbuzz fetching. ...at "+str(datetime.now()))
            try:
                self._cricketFetcher()
                self._mainApiMap = self._apiMap
            except:
                print("Error Cricbuzz fetching.... at "+str(datetime.now()))
                pass
            sleep(15*60)
    def dataGetter(self, topic):
        return self._mainApiMap[str(topic)]
a = Api()
def apiRunner():
    t1 = Thread(target=a.topHeadlinesThreader)
    t2 = Thread(target=a.newsCatcherThreader)
    t3 = Thread(target=a.cricbuzzThreader)
    t1.daemon=True
    t2.daemon=True
    t3.daemon=True
    t1.start()
    t2.start()
    t3.start()
def apiData(topic):
    return a.dataGetter(topic)
```

CookieChecker.py

```
import app
from functools import wraps
import jwt
from flask import request,after_this_request
def token_required(f):
    @wraps(f)
    def decorated(*args, **kwargs):
        token = request.cookies.get("access_token")
        try:
            data = jwt.decode(token, app.app.config['SECRET_KEY'],algorithms=['HS256'])
            ip=request.headers.get("ip")
            cookieIp=data['ip']
            if(ip!=cookieIp):
                resp={"status":"not logged in"}
                @after_this_request
                def deleter(response):
                    response.delete_cookie("access_token",path="/")
                    response.delete_cookie("email",path="/")
                    return response
                return resp,401
        except:
            resp = {"status":"not logged in"}
            @after_this_request
            def deleter(response):
                response.delete_cookie("access_token",path="/")
                response.delete_cookie("email",path="/")
                return response
            return resp, 401
        return f(data['email'],*args, **kwargs)
    return decorated
```

dbConfig.py

```
from dotenv import dotenv_values
def getDbCred():
    data=dotenv_values(".env")
    dsn_hostname=data["ibm_host_name"]
    dsn_uid=data["ibm_user_id"]
    dsn_pwd=data["ibm_password"]
    dsn_driver=data["ibm_driver"]
    dsn_database=data["ibm_db_name"]
    dsn_port=data["ibm_port"]
    dsn_protocol=data["ibm_protocol"]
    dsn=(
        "DATABASE={1};"
        "HOSTNAME={2};"
        "PORT={3};"
```

```
        "PROTOCOL={4};"
        "UID={5};"
         "PWD={6};"
         "SECURITY=SSL").format(dsn_driver,dsn_database,dsn_hostname,dsn_p
ort,dsn_protocol,dsn_uid,dsn_pwd)
    return dsn
```

dbQuery.py

```
import ibm_db
from utils.dbConfig import getDbCred
conn=ibm_db.connect(getDbCred(),"","")
def selectQuery(query,params=None):
    try:
        stmt=ibm_db.prepare(conn,query)
        if(params==None):
            ibm_db.execute(stmt)
            data=ibm_db.fetch_assoc(stmt)
            return data
        ibm_db.execute(stmt,params)
        data=ibm_db.fetch_assoc(stmt)
        return data
    except:
        return False
def insertQuery(query,params):
    try:
        stmt=ibm_db.prepare(conn,query)
        ibm_db.execute(stmt,params)
        return True
    except:
        return False
```

emailSender.py

```
from__future__import print_function
from utils.tokener import generate_confirmation_token
import sib_api_v3_sdk
import app
from sib_api_v3_sdk.rest import ApiException
from datetime import datetime
def emailSender(email, token):
    configuration = sib_api_v3_sdk.Configuration()
```

```
    configuration.api_key['api-key'] = app.data['mail_api_key']
    api_instance = sib_api_v3_sdk.TransactionalEmailsApi(
        sib_api_v3_sdk.ApiClient(configuration))
    now = datetime.now()
    dt_string = now.strftime("%d/%m/%Y %H:%M:%S")
    msg = {}
    msg['Subject'] = "Verfiy your NewsTracker Account"
    msg['From'] = {"name": "News Tracker Dev Team",
                   "email": "verify@newstracker.com"}
    msg['To'] = [{"email": email}]
    msg['Text']=f'Please click this <a
href="http://127.0.0.1:5500/frontend/pages/verify.html?token={token}">link</a
> to verify your account'
    html = f"""\
    <html>
        <head></head>
        <body>
        <p>நன்றி, for joining NewsTracker 🎞️</p>
        <br>
        <p>Hurray      , you just registerd at NewsTracker<br><br>
        Please click the following link to verify your account:<br>
        <a
href="http://127.0.0.1:5500/frontend/pages/verify.html?token={token}">Click
Here to Verify 🔶</a>
        </p>
        <br>
        <p>      Note: This link expires within one hour from the time sent</p>
        <br><br>
        <p>Regrads,<br></p>
        <p><a href="https://localhost:5000">NewsTracker Dev Team</a></p>
        <br><br>
        <p>Email sent at {dt_string}</p>
        </body>
    </html>
    """
    send_smtp_email = sib_api_v3_sdk.SendSmtpEmail(
        to=msg['To'], html_content=html, sender=msg['From'],
subject=msg['Subject'],text_content=msg['Text'])
    try:
        api_response = api_instance.send_transac_email(send_smtp_email)
        print(api_response)
    except ApiException as e:
```

```
        print("Exception when calling SMTPApi->send_transac_email: %s\n" %
e)
def newEmailSender(email):
    token = generate_confirmation_token(email)
    emailSender(email, token)
```

password.py

```
import bcrypt

def genHash(password):
    salt=bcrypt.gensalt()
    bytes=password.encode('utf-8')
    hash=bcrypt.hashpw(bytes,salt)
    print(hash)
    return hash

def checkPassword(password,hash):
    hash=hash.encode('utf-8')
    bytes=password.encode('utf-8')
    res=bcrypt.checkpw(bytes,hash)
    return res
```

tokener.py

```
from itsdangerous import URLSafeTimedSerializer
import app

def generate_confirmation_token(email):
    serializer=URLSafeTimedSerializer(app.app.config['SECRET_KEY'])
    return
serializer.dumps(email,salt=app.app.config['SECURITY_PASSWORD_SALT']
)

def confirm_token(token,expiration=3600):
    serializer=URLSafeTimedSerializer(app.app.config['SECRET_KEY'])
    try:
        email=serializer.loads(
            token,
            salt=app.app.config['SECURITY_PASSWORD_SALT'],
            max_age=expiration
```

```
        )
    except:
        return False
    return email
```

Frontend_

Bookmarks.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">
    <link rel="stylesheet" href="../css/bookmarks.css">
    <title>Document</title>
</head>
<body>
    <nav id="head_nav">
        <div class="title_container">
            <img id="ham_icon" src="../assets/hamburger 1.svg" alt="ham_icon">
            <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> -->
            <img id="user_icon" src="../assets/user 1.svg" alt="user_icon">
```

```
            <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">Home</h3>
            <h3 class="nav_button">India</h3>
            <h3 class="nav_button">World</h3>
            <h3 class="nav_button">Technology</h3>
            <h3 class="nav_button">Entertainment</h3>
            <h3 class="nav_button">Sports</h3>
            <h3 class="nav_button">Science</h3>
            <h3 class="nav_button">Health</h3>
        </div>
    </nav>
    <section id="home">
        <div class="news_wrapper">
            <img class="bookmark" src="../assets/bookmark-solid.svg" alt="" />
            <a class="news_cont" href="./news.html">
                <div class="img_cont">
                    <img src="../assets/pexels-cottonbro-3944418 1.png" alt=""
class="news_thumbnail">
                </div>
                <div class="news_content">
                    <h2 class="news_heading">JSV effect</h2>
```

```
                <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Rerum eveniet quibusdam autem iste, eligendi nihil quod molestias facere incidunt quia officia atque distinctio consequuntur qui, suscipit voluptates quasi minus ipsum.</p>
            </div>
        </a>
    </div>
</section>
<script src="../js/main.js"></script>
</body>
</html>
```

Index.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">
    <link rel="stylesheet" href="../css/index.css">
    <title>Document</title>
</head>
<body>
    <nav id="head_nav">
        <div class="title_container">
            <img id="ham_icon" src="../assets/hamburger 1.svg" alt="ham_icon">
            <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> -->
            <img id="user_icon" src="../assets/user 1.svg" alt="user_icon">
            <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">Home</h3>
            <h3 class="nav_button">India</h3>
            <h3 class="nav_button">World</h3>
            <h3 class="nav_button">Technology</h3>
            <h3 class="nav_button">Entertainment</h3>
            <h3 class="nav_button">Sports</h3>
            <h3 class="nav_button">Science</h3>
            <h3 class="nav_button">Health</h3>
        </div>
    </nav>
    <section id="home">
        <div class="horizontal_content">
            <div class="news_wrapper">
```

```
            <img class="bookmark" src="../assets/bookmark-regular.svg" alt=""
/>
            <a class="news_cont" href="./news.html">
                <div class="img_cont">
                    <img src="../assets/pexels-cottonbro-3944418 1.png" alt=""
class="news_thumbnail">
                </div>
                <div class="news_content">
                    <h2 class="news_heading">JSV effect</h2>
                </div>
            </a>
        </div>
        <div class="news_wrapper">
            <img class="bookmark" src="../assets/bookmark-regular.svg" alt=""
/>
            <a class="news_cont" href="./news.html">
                <div class="img_cont">
                    <img src="../assets/pexels-cottonbro-3944418 1.png" alt=""
class="news_thumbnail">
                </div>
                <div class="news_content">
                    <h2 class="news_heading">JSV effect</h2>
                </div>
            </a>
        </div>
        <div class="news_wrapper">
            <img class="bookmark" src="../assets/bookmark-regular.svg" alt=""
/>
```

```
            <a class="news_cont" href="./news.html">
                <div class="img_cont">
                    <img src="../assets/pexels-cottonbro-3944418 1.png" alt="" class="news_thumbnail">
                </div>
                <div class="news_content">
                    <h2 class="news_heading">JSV effect</h2>
                </div>
            </a>
        </div>
        <div class="news_wrapper">
            <img class="bookmark" src="../assets/bookmark-regular.svg" alt="" />
            <a class="news_cont" href="./news.html">
                <div class="img_cont">
                    <img src="../assets/pexels-cottonbro-3944418 1.png" alt="" class="news_thumbnail">
                </div>
                <div class="news_content">
                    <h2 class="news_heading">JSV effect</h2>
                </div>
            </a>
        </div>
    </div>
    <div class="news_wrapper">
        <img class="bookmark" src="../assets/bookmark-regular.svg" alt="" />
        <a class="news_cont" href="./news.html">
```

```
            <div class="img_cont">
                <img src="../assets/pexels-cottonbro-3944418 1.png" alt="" class="news_thumbnail">
            </div>
            <div class="news_content">
                <h2 class="news_heading">JSV effect</h2>
                <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Rerum eveniet quibusdam autem iste, eligendi nihil quod molestias facere incidunt quia officia atque distinctio consequuntur qui, suscipit voluptates quasi minus ipsum.</p>
            </div>
        </a>
    </div>
</section>
<script src="../js/main.js"></script>
<script src="../js/index.js" type="module"></script>
</body>
</html>
```

Login.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>Login and Sign Up Page</title>
```

```
    <!--font awesome-->
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.2.0/css/all.min.css">
    <!--custom css file link-->
    <link rel="stylesheet" href="../css/login.css">
  </head>
  <body>
    <div class="container" id="container">
      <div class="form-container sign-up-container">
        <form id="signup-form" onsubmit="return false;">
          <h1>Create Account</h1>
          <span>You can use your custom email</span>
          <input type="text" placeholder="NAME" class="box" required autocomplete="name">
          <input type="email" placeholder="E-mail" class="box" required autocomplete="email">
          <input type="password" placeholder="PASSWORD" class="box" required autocomplete="current-password">
          <input type="password" placeholder="RE-ENTER PASSWORD" class="box" required autocomplete="current-password">
          <button class="btn">Sign Up</button>
          <h2></h2>
        </form>
      </div>
      <div class="form-container sign-in-container">
        <form onsubmit="return false;">
          <h1>Sign In</h1>
          <span>Enter your sign in credentials</span>
```

```
            <input type="email" placeholder="E-mail" class="box"
autocomplete="email">
            <input type="password" placeholder="PASSWORD" class="box"
autocomplete="current-password">
            <button class="btn">Sign In</button>
            <h2></h2>
          </form>
        </div>
        <div class="overlay-container">
          <div class="overlay">
            <div class="overlay-panel overlay-left">
              <div class="container-checkbox">
                <ul class="ks-cboxtags">
                  <li><input type="checkbox" id="checkboxOne"
value="sport" checked><label for="checkboxOne">sport</label></li>
                  <li><input type="checkbox" id="checkboxTwo"
value="tech" checked><label for="checkboxTwo">tech</label></li>
                  <li><input type="checkbox" id="checkboxThree"
value="world"><label for="checkboxThree">world</label></li>
                  <li><input type="checkbox" id="checkboxFour"
value="finance"><label for="checkboxFour">finance</label></li>
                  <li><input type="checkbox" id="checkboxFive"
value="politics" checked><label for="checkboxFive">politics</label></li>
                  <li><input type="checkbox" id="checkboxSix"
value="business"><label for="checkboxSix">business</label></li>
                  <li><input type="checkbox" id="checkboxSeven"
value="economics"><label for="checkboxSeven">economics</label></li>
                  <li><input type="checkbox" id="checkboxEight"
value="entertainment"><label
for="checkboxEight">entertainment</label></li>
```

```
                    <li><input type="checkbox" id="checkboxNine"
value="beauty"><label for="checkboxNine">beauty</label></li>

                    <li><input type="checkbox" id="checkboxTen"
value="travel"><label for="checkboxTen">travel</label></li>

                    <li><input type="checkbox" id="checkboxEleven"
value="music"><label for="checkboxEleven">music</label></li>

                    <li><input type="checkbox" id="checkboxTwelve"
value="food"><label for="checkboxTwelve">food</label></li>

                    <li><input type="checkbox" id="checkboxThirteen"
value="science"><label for="checkboxThirteen">science</label></li>

                    <li><input type="checkbox" id="checkboxFourteen"
value="cricket"><label for="checkboxFourteen">cricket</label></li>

                  </ul>

                 </div>

                <h1>Already registed ?</h1>

                <button class="btn" id="signin">sign in</button>

              </div>

              <div class="overlay-panel overlay-right">

              <h1>Welcome to latest world updates!</h1>

              <button class="btn" id="signup">sign up</button>

              </div>

            </div>

          </div>

      </div>

  <script src="../js/login.js" type="module"></script>

  </body>

</html>
```

News.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">
    <link rel="stylesheet" href="../css/news.css">
    <title>Document</title>
</head>
<body>
    <nav id="head_nav">
        <div class="title_container">
            <img id="ham_icon" src="../assets/hamburger 1.svg" alt="ham_icon">
            <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> -->
            <img id="user_icon" src="../assets/user 1.svg" alt="user_icon">
            <div class="profile_div display_none">
                <h3 class="logout">Logout</h3>
            </div>
        </div>
```

```
        <div class="menu_container">
            <h3 class="selected_nav_item">Home</h3>
            <h3>India</h3>
            <h3>World</h3>
            <h3>Technology</h3>
            <h3>Entertainment</h3>
            <h3>Sports</h3>
            <h3>Science</h3>
            <h3>Health</h3>
        </div>
    </nav>
    <iframe src="" frameborder="0">
        <!-- news API -->
    </iframe>
    <script src="../js/main.js"></script>
</body>
</html>
```

Verify.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" />
    <link rel="stylesheet" href="../css/verify.css" />
```

```
    <title>Verify</title>
  </head>
  <body>
    <nav id="head_nav">
      <div class="title_container">
        <h1 id="app_name">News Tracker</h1>
      </div>
    </nav>
    <div class="status-cont">
      <div class="welcome-text">Please wait... </div>
    </div>
  </body>
  <script src="../js/verify.js" type="module"></script>
</html>
```

GitHub

https://github.com/IBM-EPBL/IBM-Project-4602-1658735625

Project demo link

https://abishek-bucket.s3.jp-tok.cloud-object-storage.appdomain.cloud/demo%20video.mp4