

**NEWS TRACKER APPLICATION
USING CLOUD**

A Project report submitted inpartial fulfillment of the 7th semester in
degree of

**BACHELOR OF ENGINEERING
IN**

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Submitted by

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BONAFIDECERTIFICATE

CERTIFIED THAT THIS PROJECT REPORT “NEWS TRACKER APPLICATION” IS THE BONAFIDE RECORD WORK DONE BY .Mr .P.SELVA GANDHI (113319106068), Mr. V.PREM KUMAR(113319106060), Mr.S.HARISH SHAKTHI (113319106031) AND Mr.N.DINESHWAR (113319106022) FOR “HX8001 PROFESSIONAL READINESS FOR INNOVATION , EMPLOYABILITY AND ENTREPRENEURSHIP ” IN VII SEMESTER OF B.E., DEGREE COURSE IN ELECTRONICS AND COMMUNICATION ENGINEERING BRANCH DURING THE ACADEMIC YEAR OF 2022-2023.

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DINESHWAR N

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 the 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 algorithms to automatically detect hate speech messages on real –time data sets Hence ,the aim of this Project is to analyze comments on social networks using the Natural Language processing technique (NLP) and Deep Learning algorithm named Back propagation neural network algorithm. Using the NLP technique, can extract the keywords from user-generate 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 frame work implemented in realtime social networks it with improved notification.

TABLE OF FIGURES

1. INTRODUCTION
 - 1.1 Project Overview
 - 1.2 Purpose
 2. LITERATURE SURVEY
 - 2.1 Existing problem
 - 2.2 References
 - 2.3 Problem Statement Definition
 3. IDEATION & PROPOSED SOLUTION
 - 3.1 Empathy Map Canvas
 - 3.2 Ideation & Brain storming
 - 3.3 Proposed Solution
 - 3.4 Problem Solution fit
 4. REQUIREMENT ANALYSIS
 - 4.1 Functional requirement
 - 4.2 Non-Functional requirements
 5. PROJECT DESIGN
 - 5.1 Data Flow Diagrams
 - 5.2 Solution & Technical Architecture
 - 5.3 User Stories
 6. PROJECT PLANNING & SCHEDULING
 - 6.1 Sprint Planning & Estimation
 - 6.2 Sprint Delivery Schedule
 - 6.3 Reports from JIRA
 7. CODING & SOLUTIONING
 - 7.1 Feature1
 - 7.2 Feature2
 - 7.3 Database Schema (if Applicable)
 8. TESTING
 - 8.1 Test Cases
 - 8.2 User Acceptance Testing
 9. RESULTS
 - 9.1 Performance Metrics
 10. ADVANTAGES & DISADVANTAGES
 11. CONCLUSION
 12. FUTURE SCOPE
 13. APPENDIX
- Source Code GitHub & Project Demo Link

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.

1.1 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.

1.2 Purpose

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

2. LITERATURE SURVEY

2.1 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.

2.2 References

Like articles, websites,

blogs.<https://www.researchgate.net/>.

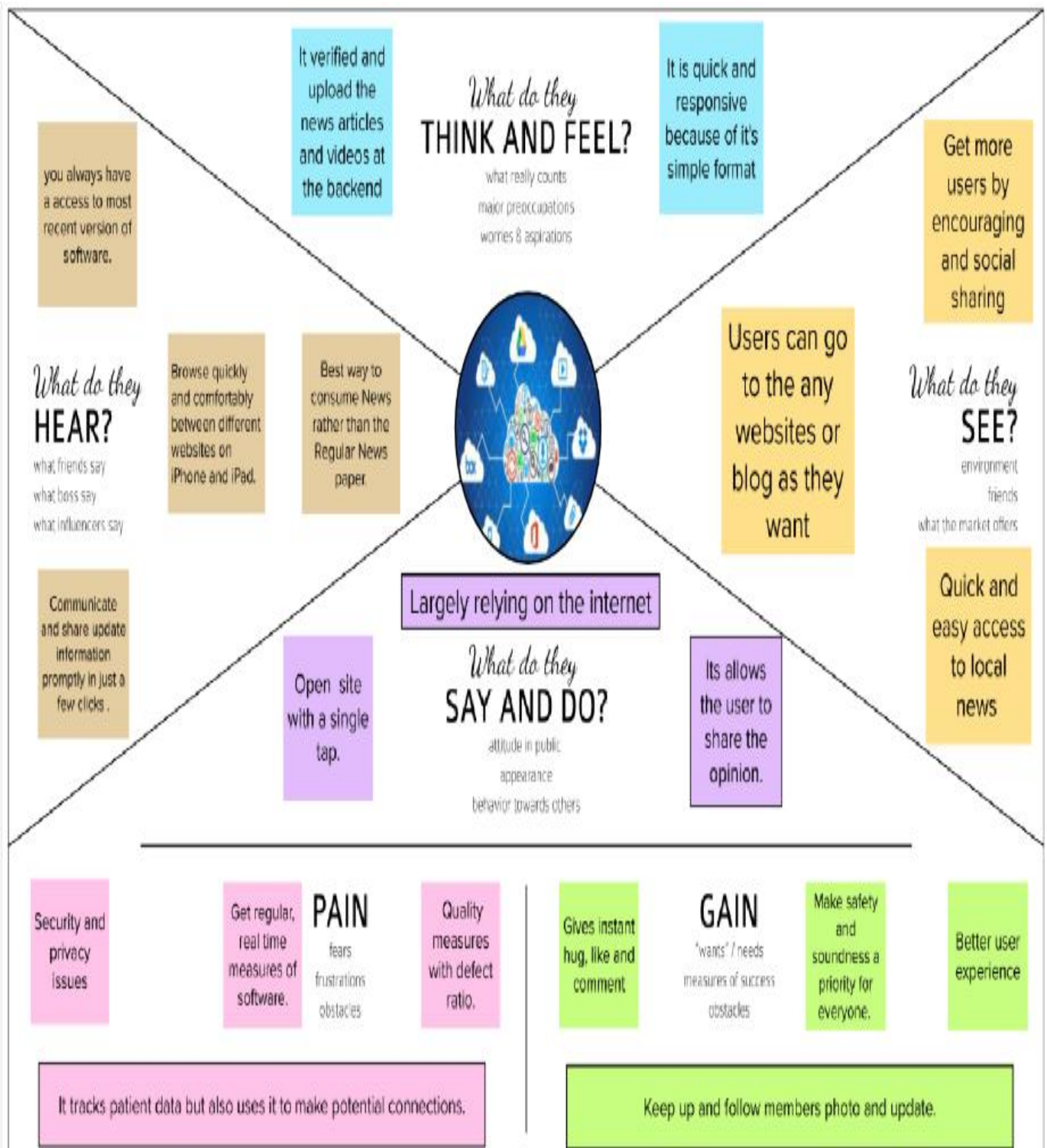
<https://techvidvan.com/tutorials/android-news-app-project-source-code/https://www.ripublication.com/>

2.3 Problem Statement Definition

1. The user needs a way to organize the news on a 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 surroundings using GPS location.

3. IDEATION&PROPOSED SOLUTION

3.1 EmpathyMapCanvas



3.2 Ideation&Brainstorming

3.3 ProposedSolution

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	There are multiple news-sharing apps used by a single user and are often spammed with notifications. There is also a lot of fake news which gets shared. A news-sharing app wants to help users find relevant and important news easily every day and also understand explicitly that the news is not fake but from proper sources.
2.	Idea / Solution description	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.—
3.	Novelty / Uniqueness	Smart View Most news apps work online, and articles can only be viewed if the device has internet connectivity. However, with the Smart View feature, you can allow your users to consume news offline without any hassle. This feature was built into the news API for Japanese users commuting in the Tokyo subway. In this feature, the web view is removed, which reduces data consumption.
4.	Social Impact / Customer Satisfaction	A New Application of Social Impact in Social Media for Overcoming Fake News in Health One of the challenges today is to face fake news (false information) in health due to its potential impact on people's lives.
5.	Business Model (Revenue Model)	The apps under these revenue model are free for the users and they are diverted to the advertisers for the payment. The agenda of such a revenue model is to accumulate a good amount of user base and its data.
6.	Scalability of the Solution	<ul style="list-style-type: none"> Better user experience Cost- effectiveness Stable performance App customization Project growth

3.4 ProblemSolutionfit

ProjectTitle: News Tracker Application		Project Design Phase-I - Solution Fit		Team ID: PNT2022TMID24493	
Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS From young people to old people From working professional to jobless person From poor to rich From village people to city people Every one reads news now-a-days.	6. CUSTOMER CONSTRAINTS CC No network, Provide Download option No well organized content No related and interesting and educating content Click Bait(Topic and content are not related) Annoying user interface No customization option	5. AVAILABLE SOLUTIONS AS User can customize what content to read and can search contents Chat bot that solves user queries Providing quick access to favorite topic User friendly interface, avoiding misleading ads Prioritize news according to user interest and location.	Explore AS, differentiate	
	2. JOBS-TO-BE-DONE/ PROBLEMS J&P Reading unwanted and irrelevant and repeated content Bad user interface Searching related news Misleading Ads and unorganized contents user unable to customize news content Using internet for previously watched content Forced notifications and ads Providing dark mode	9. PROBLEM ROOTCAUSE RC No user customization. This leads to unorganized and uninterested news. No search bars leads frustration to search contents No service to complain(Chat bot solves queries.) No download option user may not have internet. Light mode may not good for eye. User interface needs to be attractive and easy to use or it make user to lose interest on app Provide notification which related to user wish	7. BEHAVIOUR BE User searching news and wasting time on it User gets frustrated while using bad user interface Misleading ads or topics wasting user time and confuse user User need all types of content but needs their favorite content to be prioritized. User may feel stressed eye. User may avoid notification if it is not related.	Focus on J&P, tap into C	
	3. TRIGGERS TR People asking about latest news When things goes viral When need report about weather, market, sports and etc	10. YOURSOLUTION SL Providing search bars and content customization tiles Enabling download options and save or pin post options Providing Chat bot Providing Dark Mode Providing like, comments, tag, polling options to develop to develop user interface further more. User can control their notification. They can select content which they need to notified.	8. CHANNELS of BEHAVIOUR CH 8.1 ONLINE User can customize their news according to their interest. User can interact with community feed and user can report any queries 8.2 OFFLINE User can save post and then read it for later User can download post and can share it to other people.	Extract online & offline CH of BE	
Identify strong TR & EM		4. EMOTIONS: BEFORE/ AFTER EM			
		Feels waste of time to read irrelevant content Feels frustrated about misleading news Feels getting lack of information from contents			

4. REQUIREMENT ANALYSIS

4.1 Functional requirement

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement(Epic)	SubRequirement (Story/ Sub-Task)
FR-1	UserRegistration	Registration through Form Registration through Gmail
FR-2	UserConfirmation	Confirmation via Email Confirmation via OTP
FR-3	UserLogin	User using his/her device to log into the app/website for reading news
FR-4	Usersearch	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-newspaper, Articles etc
FR-5	UserReads	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	Userfeatures	User can have lot of features like Like and share and Post features.

4.2 Non-functional Requirements:

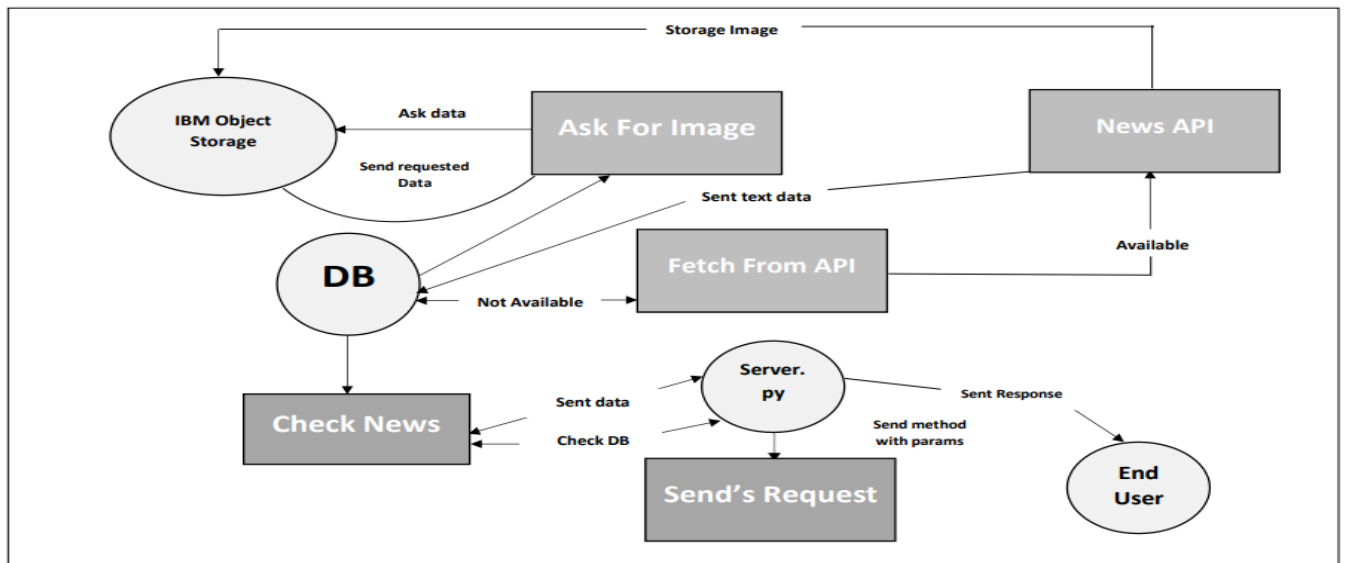
Following are the non-functional requirements of the proposed solution.

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't 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 Play store and online web sites.
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. PROJECTDESIGN

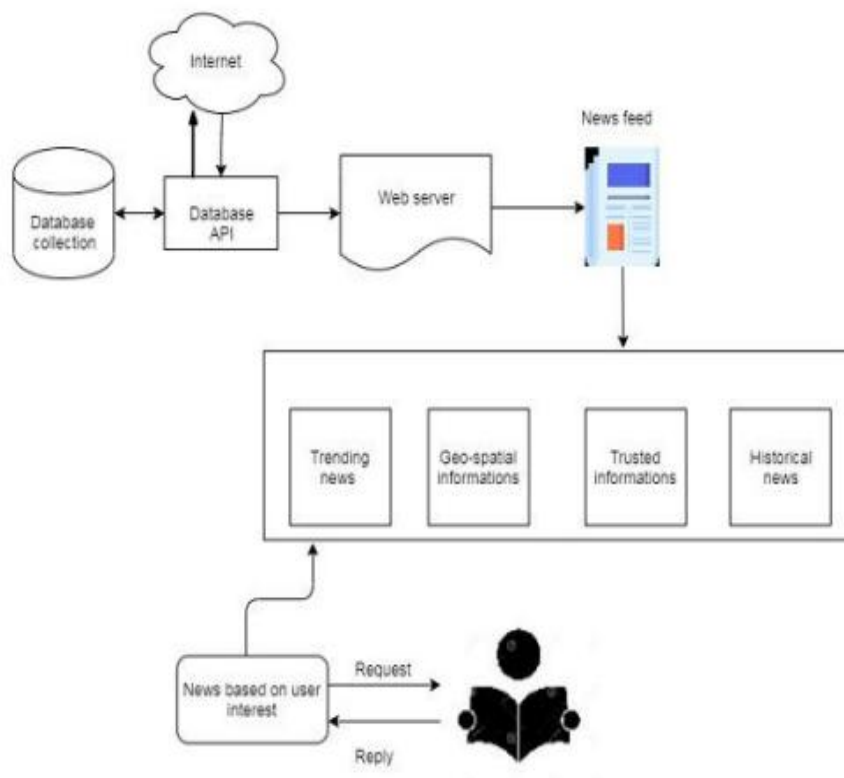
5.1 DataFlowDiagrams

Dataflow Diagram



5.2 Solution&TechnicalArchitecture

Solution Architecture Diagram:



5.3 UserStories

User Stories

Use the below template to list all the user stories for the product.

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	I can register & access the dashboard with Gmail Login	Low	Sprint-2
	Login	USN-5	As a user, I can log into the application by entering email & password	I can view all types of information through this application	High	Sprint-1
	Dashboard	USN-1	As a user, I can log into the application and look into my dashboard	I can Look into My Dashboard After my login	Low	Sprint-1
		USN-2	As a user, I can log into the application and update my personal data	I can View the personal data which can be updated by the user	Low	Sprint-2
		USN-3	As a user, I can log into the application and read news based on my filter contents	News contents are filtered based on the user needs	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Web user)	Login	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password through web applications such as Chrome, Firefox, brave, Operamini etc.	I can access my account / dashboard	High	Sprint-1
Customer Care Executive	Dashboard	USN-1	As a user, I can Report to the customer service about the error or doubt of the application by calling to the customer service which is provided in the application help box	I can report to the customer service if I am facing an issue or I didn't know anything about the application	High	Sprint-1
		USN-2	As a user, I can Report to the customer service about the error or doubt of the application by emailing to the customer service which is provided in the application help box	I can report to the customer service if I am facing an issue or I didn't know anything about the application	High	Sprint-1
Administrator	Application	USN-1	Application administrator will rectify the error caused in the application as soon as possible and provide a patch update in order to have an error free software	I can report to the customer service what the issue has been faced and they might rectify by releasing patch updates	High	Sprint-1

6. PROJECTPLANNING& SCHEDULING

6.1 SprintPlanning&Estimation

TITLE	DESCRIPTION	DATE
Literature Survey & Information Gathering	Literature survey on the selected project & gathering information by referring the, technical papers, research publication etc.	15 Sept 2022
Prepare Empathy Map	Prepare Empathy Map Canvas to capture the user Pains & Gains, Prepare list of problem statements	19 Sept 2022
Ideation Brain Storming	List the by organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility & importance.	19 Sept 2022
Proposed Solution	Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc.	17 Oct 2022
Problem Solution Fit	Prepare problem solution fit document	17 Oct 2022
Solution Architecture	Prepare solution architecture document.	17 Oct 2022
Customer Journey	Prepare the customer journey maps to	17 Oct 2022

	understand the user interactions& experiences with the application (entry to exit).	
SolutionRequirement	Prepare the functionalrequirement document	17 October 2022
DataFlowDiagrams	Drawthedataflowdiagramsand submitforreview.	16 October 2022
Technology Architecture	Preparethetechnology architecturediagram.	17 October 2022
Prepare Milestone &Activity List	Prepare the milestones &activitylist oftheproject.	03 November2022
Project Development-Delivery of Sprint-1,2,3 &4	Develop & submit the developed code by testing it.	12 November 2022

6.2 SprintDeliverySchedule

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	Selva gandhi, Prem kumar, Harish shakthi, Dineshwar.
Sprint-1	Confirmation mail	USN-2	Confirmation Mail will be received by the user, that he is registered for the Application.	10	High	Selva gandhi, Prem kumar.
Sprint-1	Login	USN-3	As a user I need to login to my registered mail to access the Application.	10	Low	Harish shakthi, Dineshwar.
Sprint-2	Search box	USN-4	User need search box to search the news	20	Medium	Prem kumar, Harish shakthi.
Sprint-3	News gathering	USN-5	User need to get result for his search.	20	High	Selva gandhi, Prem kumar, Harish shakthi.
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	Selva gandhi, Prem kumar, Harish shakthi, Dineshwar.
Sprint-4	IBM Db2	USN-7	Application is integrated with DB2	10	High	Selva gandhi, Dineshwar.

6.3 Reports fromJIRA

7. CODING&SOLUTIONING

Forgot password-

Forpass.html

```
<!doctypehtml>
```

```
<html lang="en">
```

```
<head>
```

```
<metacharset="utf-8">
```

```
<metaname="viewport"content="width=device-width,initial-scale=1">
```

```
<metaname="description"content="">
```

```
<metaname="author"content="MarkOtto,JacobThornton,andBootstrapcontrib  
utors">
```

```
<metaname="generator"content="Hugo0.84.0">
```

```
<title>SignIn</title>
```

```
<linkrel="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">
```

```
<!--BootstrapcoreCSS -->
```

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

```
<!--Favicons -->
```

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

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

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

```
<linkrel="manifest"href="/docs/5.0/assets/img/favicons/manifest.json">
```

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

```
<linkrel="icon"href="/docs/5.0/assets/img/favicons/favicon.ico">
```

```
<metaname="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>
```

```
<!--Customstylesforthistemplate-->
```

```
<linkhref="static/sheets/signin.css"rel="stylesheet">
```

```
<linkhref="static/sheets/colors.css"rel="stylesheet">
```

```
</head>
```

```
<bodyclass="text-center">
```

```
  <navclass="navbarnavbar-darkbg-darkfixed-top">
```

```
    <divclass="container-fluid">
```

```
      <aclass="navbar-brand"href="#">NewsTracker</a>
```

```
<buttonclass="navbar-toggler"type="button"data-bs-
toggle="offcanvas" data-bs-target="#offcanvasDarkNavbar" aria-
controls="offcanvasDarkNavbar">
```

```
<spanclass="navbar-toggler-icon"></span>
```

```
</button>
```

```
<divclass="offcanvasoffcanvas-endtext-bg-dark"tabindex="-
1"id="offcanvasDarkNavbar"aria-labelledby="offcanvasDarkNavbarLabel">
```

```
<divclass="offcanvas-header">
```

```
<h5 class="offcanvas-title"
id="offcanvasDarkNavbarLabel">Profile</h5>
```

```
<buttontype="button"class="btn-closebtn-close-white"data-bs-
dismiss="offcanvas"aria-label="Close"></button>
```

```
</div>
```

```
<divclass="offcanvas-body">
```

```
<ulclass="navbar-navjustify-content-endflex-grow-1pe-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">FetchNews</a>
```

```
</li>
```

```
<li class="nav-item">
```

```
<a class="nav-link"href="about.html">AboutUs</a>
```

```
</li>
```

```
<li class="nav-item">
```

```
<a class="nav-link"href="signin.html">SignIn</a>
```

```
</li>
```

```

        <li class="nav-item">
            <a class="nav-link" href="signup.html">SignUp</a>
        </li>
    </div>
</div>
</div>
</nav>

<main class="form-signin">
    <form action="{ {url_for('getUser')}}" method="POST">
        
        <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/change-pass.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+RTT6rIHI7NnikvzbZIHgTPOOmMi466
                                C8" crossorigin="anonymous"></script>

```

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

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

```
<scriptsrc="/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>
<htmllang="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>BootstrapExample</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}">

    <!--ExampleCode-->

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

    <!--End ExampleCode -->

</body>

</html>
```

[illegible]

```

For details, see https://creativecommons.org/licenses/by/3.0/.
/*global bootstrap:false*/
(function() {
'use strict'

// Tooltips
// Instantiate all tooltips in
adocsorStackBlitzpage\ndocument\
.querySelectorAll('[data-bs-
toggle=\u0022tooltip\u0022]\u0027)\n
.forEach((tooltip) => {
  new bootstrap.Tooltip(tooltip)
})
// Popovers
//
//
// Instantiate all popovers in adocsorStackBlitzpage\ndocument\
.querySelectorAll('[data-bs-toggle=\u0022popover\u0022]\u0027)\n
  .forEach((popover => {
    new bootstrap.Popover(popover)
  })
})
// Toasts
//
// Used by \u0027Placement\u0027 example in docsorStackBlitz\n
const toastPlacement =
document.getElementById(\u0027toastPlacement\u0027)\n
if (toastPlacement) {
  document.getElementById(\u0027selectToastPlacement\u0027)\n
    .addEventListener(\u0027change\u0027, function () {
      if (!toastPlacement.dataset.originalClass) {
        toastPlacement.dataset.originalClass =
        toastPlacement.className\n
      }
      toastPlacement.className =
        ` ${toastPlacement.dataset.originalClass} `
    })
  // Instantiate all toasts in a docs page
  only\ndocument\
    .querySelectorAll(\u0027.bd-example .toast\u0027)\n
    .forEach((toastNode => {
      const toast = new bootstrap.Toast(toastNode, {
        autohide: false
      })
      toast.show()
    })
  // Instantiate all toasts in a docs page only\n
  const toastTrigger =
  document.getElementById(\u0027liveToastBtn\u0027)\n
  const toastLiveExample = document.getElementById(\u0027liveToast\u0027)\n
  if (toastTrigger) {
    toastTrigger.addEventListener(\u0027click\u0027, () => {
      const toast = new bootstrap.Toast(toastLiveExample)\n
      toast.show()
    })
  }
  // Alerts
  //
  // Used in \u0027Show live toast\u0027 example in docsorStackBlitz\n
  const alertPlace

```



```
holder
document.getElementById('liveAlertPlaceholder')\n
const
alertTrigger=document.getElementById('liveAlertBtn')\n\nconst
appendAlert=(message,type)=>{\nconstwrapper=document.createElement('div')\n  wrapper.innerHTML=[\n
```

[illegible]

```
modalTitle.textContent= `New message to  
${recipient}`  
modalBodyInput.value=recipient  
})\n}\n\n\\/-
```


8. TESTING

8.1 TestCases

Test case	feature	component	Test scenario	Expected result	Actual result	status	comments	bug	Executedby
Sign in	Functional	Login page	Verify user can see the sign in option	can visible	Yes visible	pass	successful	-	Harish shakthi
Sign up	Functional	Login page	Verify user has the option to sign up	Can visible	Yes visible	pass	Successful	-	Dineshwar
Forgot password	Functional	Login page	Verify user has the option to forgot password	Yes the option is available	Option is available	pass	Successful	-	Selva gandhi

Fetch news	Functional	Home page	Verify user can get the news	News will be feed to the app	404 error	Fail	unsuccessful	App integration problem	Prem kumar Harish shakthi
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	-	Selva gandhi

Fetch news	Functional	Home page	Verify user can get the news	News will be feed to the app	404 error	Fail	unsuccessful	App integration problem	
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	-	Selva Gandhi Prem Kumar Harish Shakthi Dineshwar

Result:

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

10. ADVANTAGES &

DISADVANTAGESAdvantages:-

- ❖ In this app news is already categorized.
- ❖ Easily accessible and portable.
- ❖ Better user experience.
- ❖ App helps you convert visitor 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.
- ❖ Occurrence of advertisement disturbs the user.
- ❖ Sometimes the news gives brief information.
- ❖ Prevalence of fake and uncertain news can confuse the user and 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

SourceCode:

Backend_

App.py

```
from dotenv import
dotenv_valuesfromapiFetchimport
*

fromflaskimportFlask
fromflask_corsimportCORS
fromroutes.registerimportRegister
from routes.checkEmail import
CheckEmailfromroutes.verifyimportVerify
fromroutes.getnewsimport*from
routes.islogin import IsLoginfrom
routes.login import
Loginfromflask_restful importApi
from utils.apiFetch import
apiRunnerapp =Flask(_name__)
api =Api(app)
data =
dotenv_values(".env")app.config['SECRET_KEY
'] =
data["secret_key"]app.config['SECURITY_PASS
WORD_SALT']=
data["secured_password_salt"]a
piRunner()
CORS(app,
supports_credentials=True)api.add_resource(Logi
n,
'/login')api.add_resource(IsLogin,'/islogin')api.ad
d_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,'/ne
ws/<topic>')
```

Routes_Check

Email.py

```
from flask import request
from flask_restful import
Resource
from utils.dbQuery import
selectQuery
class
CheckEmail(Resource):
    def
        post(self):
            data = request.j
            sonemail = str(data["emai
            l"])
            res = selectQuery("SELECT email FROM USER
            WHERE EMAIL=?", (email,))
            print(res)
            if(
            not res):
                return
            { "status": True }, 200
            return { "s
            tatus": 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(',')forx
in fav:
    topicsArr.remove(x)
retArr =[]
favList= []
# favList =
retArraynonFavList
=[]
for x in
    fav:try:
        data =
        apiData(x)except:
            data=None
        if (data is not
            None):fory
            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=Noneif (data
            isnotNone):
                fory
                    in data:nonFavList.ap
                        pend(y)
    try:
        random.shuffle(nonFavList)
        nonFavList = sorted(nonFavList, key=lambda k: k['date'],
reverse=True)except:
        nonFavList=[]
retArr =
favList+nonFavListreturn{"
data": retArr},200

```

class

News(Resource):@t

oken_requir

```

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.tokenener import
generate_confirmation_token
from utils.emailSender import
emailSender
import
app
import json
import wt

```

```
class
  Login(Resource):de
  fpost(self):
```

```

data=request.jsonip=request
.headers.get("ip")email=dat
a["email"]password=data["
password"]
queryRes=selectQuery("SELECT * from user where
email=?", (email,))res=checkPassword(password,queryRes["PASSWO
RD"])
if(not res):
    return {"status":"Wrong
credentials"},400if(notqueryRes["VERIFIE
D"]):
    lastTime=parse(queryRes["RESEND_TIME"])
    currTime=datetime.now()
    diff=currTime-
    lastTimediff=diff.total_s
    econds()if(diff>3600):
        token=generate_confirmation_token(email)ema
        ilSender(email,token)
        insertQuery("UPDATE user set RESEND_TIME=?
whereemail=?", (datetime.now(),email))
        return {"status":"Not
verified"},400@after_this_request
def
    cookieSender(response):a
    ccess_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":"SuccessfullyLoggedin"},200

```

Register.py

```

fromdatetimeimportdatetime

```

```

from flask import
request,after_this_requestfromflask_restful
import Resource
fromutils.dbQueryimportinsertQuery
from utils.emailSender import
newEmailSenderfromutils.passwordimportgen
Hash
class
    Register(Resource):de
    fpost(self):
        req=request.jsonname=re
        q['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=insertQue
        ry('INSERT INTO user
        (name,email,password,favourites,resent_time) values
        (?, ?, ?, ?, ?)',t)if(not res):
            return { "status":"Errorwhileregistering" },400

        @after_this_requestd
        efemailer(response):
            newEmailSender(email)
            return response
        return { "status":"Successfullyregistered" },200

```

verify.py

```

fromflaskimportrequest
fromflask_restfulimportResourcefrom
utils.tokener import
confirm_tokenfromutils.dbQueryimport
insertQuery

class
    Verify(Resource):de
    fpost(self):
        data=request.jsontoken=data
        ["token"]email=confirm_tok
        en(token)if(not email):
            return { "status":"Couldn'tverify" },400

```

```

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

```

Utils_apiFe

tch.py

```

from datetime import
datetimefromtimeimport sleep
importwarnings
from dotenv import
dotenv_valuesfromthreading
import *
importrequests
from dateparser import
parseclassApi:
    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"
    }
    defnewCatcherRunner(self,title):querystring=
        { "topic":title,"lang": "en",
          "media": "True", "country":
"IN" }
    response=requests.request(
        "GET", url=self.url, headers=self.headers,
        params=querystring)
    response=response.json()
    retArr=[]
    for x in
        response["articles"]:newJson
        = { }
    newJson["url"] =
        x["link"]
    newJson["title"]=x
        ["title"]
    newJson["img"] =
        x["media"]
    newJson["topic"] =
        x["topic"]
    currTime=parse(x["publishe
d_date"])
    newJson["date"] =
        currTime.strftime("%d/%m/%Y")
    retArr.append(new
        Json)
    returnretArr
    deftopHeadlinesFetcher(self):

```

```
querystring={"topic":"news","lang":"en","media":"True","country":"IN"}
```



```

        response = requests.request("GET", url=self.url,
headers=self.headers,params=querystring)
        response =
        response.json()retArr=[]
        for x in
            response["articles"]:newJson
            = { }newJson["url"] =
            x["link"]newJson["title"]=x
            ["title"]
            newJson["img"] =
            x["media"]newJson["topic"] =
            x["topic"]currTime=parse(x["publishe
            d_date"])
            newJson["date"] =
            currTime.strftime("%d/%m/%Y")retArr.append(new
            Json)
        self.apiMap["headline"]=retArrprint("headlinefe
        tchedat"+str(datetime.now()))
defnewsCatcherApiFetcher(self):
    arr= ["sport","tech","world","finance", "politics","business",
        "economics", "entertainment", "beauty", "travel", "music", "food",
        "science"]forx in arr:
        self.apiMap[x] =
        self.newCatcherRunner(x)print("NewsCatcherfetchedit"+str(
        datetime.now()))
defcricketFetcher(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"]ne
            wJson={ }
            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["d
            ate"] =
            currTime.strftime("%d/%m/%Y")newJson["topic"]="cricket
            "
            retArr.append(newJson)
        except:
            pass
    self.apiMap["cricket"]=

```

```
retArrprint("Cricbuzzfetchdat"+str(datetime.now()))  
defnewsCatcherThreader(self):
```

```

while True:
    print("NewsCatcherfetching. ....at"+str(datetime.now()))
    try:
        self.newsCatcherApiFetcher()self.
        mainApiMap=self.apiMap
    except:
        print("ErrorNewsCatcherfetching. .... at"+str(datetime.now()))
        passsleep(
            30*60)
def
    topHeadlinesThreader(self):
    while True:
        print("Headlinefetching. ....at"+str(datetime.now()))
        try:
            self.topHeadlinesFetcher()
            self.mainApiMap =
            self.apiMapexcept:
                print("Errorheadlinefetching. .... at"+str(datetime.now()))
                passsleep(
                    30*60)
def
    cricbuzzThreader(self):
    while True:
        print("Cricbuzzfetching. ....at"+str(datetime.now()))
        try:
            self.cricketFetcher()
            self.mainApiMap =
            self.apiMapexcept:
                print("ErrorCricbuzzfetching. .... at"+str(datetime.now()))
                passsleep(
                    15*60)
    defdataGetter(self,topic):
        return
self.mainApiMap[str(topic)]a=Api()
defapiRunner():
    t1 =
    Thread(target=a.topHeadlinesThreader)t2 =
    Thread(target=a.newsCatcherThreader)t3 =
    Thread(target=a.cricbuzzThreader)t1.daemo
n=True
t2.daemon=True
t3.daemon=True
t1.start()t2.start(
)t3.start()
defapiData(topic):
    returna.dataGetter(topic)

```

CookieChecker.py

```

import app
from functools import
wrapsimport jwt
from flask import
request,after_this_requestdef 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("i
            p")
            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
            res=returnres
            p,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
            res=returnres
            p, 401
        return f(data['email'],*args,
        **kwargs)return decorated

```

dbConfig.py

```

from dotenv import
dotenv_valuesdef getDbCred():
    data=dotenv_values(".env")dsn_hostna
    me=data["ibm_host_name"]dsn_uid=d
    ata["ibm_user_id"]dsn_pwd=data["ibm
    _password"]dsn_driver=data["ibm_dri
    ver"]dsn_database=data["ibm_db_nam
    e"]dsn_port=data["ibm_port"]dsn_prot
    ocol=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_port,dsn
        _protocol,dsn_uid,dsn_pwd)
    return dsn

```

dbQuery.py

```

import ibm_db
from utils.dbConfig import
getDbConn=ibm_db.connect(getDbCre
d(),"","")def selectQuery(query,params=None):
    try:
        stmt=ibm_db.prepare(conn,query)
        if(params==None):
            ibm_db.execute(stmt)data=ibm_db.f
            etch_assoc(stmt)return data
        ibm_db.execute(stmt,params)d
        ata=ibm_db.fetch_assoc(stmt)r
        eturn data
    except:
        return False
def
insertQuery(query,params):t
    try:
        stmt=ibm_db.prepare(conn,query)
        ibm_db.execute(stmt,params)retur
        n True
    except:
        return False

```

emailSender.py

```

from __future__ import print_function
from utils.tokener import
generate_confirmation_tokenimport sib_api_v3_sdk
import app
from sib_api_v3_sdk.rest import
ApiExceptionfrom 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.Tra
nsactionalEmailsApi(
    sib_api_v3_sdk.ApiClient(configuration))no
w =datetime.now()
dt_string = now.strftime("%d/%m/%Y
%H:%M:%S")msg={ }
msg['Subject'] = "Verfiy your NewsTracker
Account"msg['From']={ "name":"News
TrackerDevTeam",
    "email":
"verify@newstracker.com"}msg['To'] =
[{"email":
email}]msg['Text']=f'Pleaseclickthis<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>நீங்கள்,forjoiningNewsTracker 📧</p>
        <br>
        <p>Hurray ,youjustregisterdatNewsTracker<br><br>
        Pleaseclickthefollowinglinktoverifyyouraccount:<br>
        <a href="http://127.0.0.1:5500/frontend/pages/verify.html?token={token}">
Click HeretoVerify📧</a>
        </p>
        <br>
        <p> Note:Thislinkexpireswithinonehourfromthetimesent</p>
        <br><br>
        <p>Regrads,<br></p>
        <p><a href="https://localhost:5000">NewsTrackerDevTeam</a></p>
        <br><br>
        <p>Emailsentat{dt_string}</p>
    </body>
</html>
"""

send_smtp_email =
    sib_api_v3_sdk.SendSmtpEmail(to=msg['To'],html_cont
ent=html,sender=msg['From'],
subject=msg['Subject'],text_content=msg['Text'])
try:
    api_response =
    api_instance.send_transac_email(send_smtp_email)print(api_respo
nse)
exceptApiExceptionase:

```

```

        print("ExceptionwhencallingSMTPApi->send_transac_email:%s\n"%
e)
defnewEmailSender(email):
    token =
    generate_confirmation_token(email)emailSe
nder(email,token)

```

password.py

```

importbcrypt

def
    genHash(password):salt=bcryp
t.gensalt()bytes=password.encode('utf-
8')hash=bcrypt.hashpw(bytes,s
alt)print(hash)
returnhash

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

```

tokener.py

```

from itsdangerous import
URLSafeTimedSerializerimport app

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

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

```

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

Frontend_Book

marks.html

```
<!DOCTYPEhtml>  
  
<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">  
  
              
  
            <h1 id="app_name">NewsApp</h1>  
  
            <!--<div class="search_container">  
  
                <input  
  
                    type="text" id="s  
  
                    earch_box"  
  
                    placeholder="Search for topics, locations and resources"  
  
                >  
  
            </div> -->  
  
            
```



```
<divclass="profile_divdisplay_none">

    <a class="bookmarked_link"
href="/bookmarks.html"><h3class="bookmarked">Bookmarks</h3>
</a>

    <h3class="logout">Logout</h3>

</div>

</div>

<divclass="menu_container">

    <h3class="nav_buttonselected_nav_item">Home</h3>

    <h3class="nav_button">India</h3>

    <h3class="nav_button">World</h3>

    <h3class="nav_button">Technology</h3>

    <h3class="nav_button">Entertainment</h3>

    <h3class="nav_button">Sports</h3>

    <h3class="nav_button">Science</h3>

    <h3class="nav_button">Health</h3>

</div>

</nav>

<sectionid="home">

    <divclass="news_wrapper">

        <imgclass="bookmark"src="../assets/bookmark-solid.svg"alt=""/>

        <aclass="news_cont"href="/news.html">

            <divclass="img_cont">

                <imgsrc="../assets/pexels-cottonbro-3944418 1.png"
alt=""class="news_thumbnail">

            </div>

            <divclass="news_content">

                <h2class="news_heading">JSVeffect</h2>

            </div>

        </a>

    </div>

</section>
```

<p>Lorem ipsum dolor sit ametconsecteturadipisicingelit.
Rerumevenietquibusdam autem iste, eligendi nihil
quodmolestiasfacereinciduntquiaofficiaatquedistinctioconsequuntur qui,
suscipitvoluptates quasi minusipsum.</p>

</div>

</div>

</section>

<scriptsrc="../js/main.js"></script>

</body>

</html>

Index.html

<!DOCTYPEhtml>

<htmllang="en">

<head>

<metacharset="UTF-8">

<metahttp-equiv="X-UA-Compatible"content="IE=edge">

<metaname="viewport"content="width=device-width,initial-scale=1.0">

<linkrel="stylesheet"href="../css/index.css">

<title>Document</title>

</head>

<body>

<navid="head_nav">

<divclass="title_container">

<imgid="ham_icon"src="../assets/hamburger1.svg"alt="ham_icon">

<h1id="app_name">NewsApp</h1>

```
<!--<divclass="search_container">

  <input

    type="text" id="s

    earch_box"

    placeholder="Searchfortopics,locationsandresources"

  >

</div> -->

<imgid="user_icon"src="../assets/user1.svg"alt="user_icon">

<divclass="profile_divdisplay_none">

  <a class="bookmarked_link"
href="/bookmarks.html"><h3class="bookmarked">Bookmarks</h3>
</a>

  <h3class="logout">Logout</h3>

</div>

</div>

<divclass="menu_container">

  <h3class="nav_buttonselected_nav_item">Home</h3>

  <h3class="nav_button">India</h3>

  <h3class="nav_button">World</h3>

  <h3class="nav_button">Technology</h3>

  <h3class="nav_button">Entertainment</h3>

  <h3class="nav_button">Sports</h3>

  <h3class="nav_button">Science</h3>

  <h3class="nav_button">Health</h3>

</div>

</nav>

<sectionid="home">

  <divclass="horizontal_content">

    <divclass="news_wrapper">
```

```
<imgclass="bookmark"src="../assets/bookmark-regular.svg"alt=""
/>

<aclass="news_cont"href="/news.html">

  <divclass="img_cont">

    <imgsrc="../assets/pexels-cottonbro-39444181.png"alt=""
class="news_thumbnail">

  </div>

  <divclass="news_content">

    <h2class="news_heading">JSVeffect</h2>

  </div>

</a>
</div>

<divclass="news_wrapper">

  <imgclass="bookmark"src="../assets/bookmark-regular.svg"alt=""
/>

  <aclass="news_cont"href="/news.html">

    <divclass="img_cont">

      <imgsrc="../assets/pexels-cottonbro-39444181.png"alt=""
class="news_thumbnail">

    </div>

    <divclass="news_content">

      <h2class="news_heading">JSVeffect</h2>

    </div>

  </a>
</div>

<divclass="news_wrapper">

  <imgclass="bookmark"src="../assets/bookmark-regular.svg"alt=""
/>
```

```
<a class="news_cont" href="./news.html">
  <div class="img_cont">
    
  </div>
  <div class="news_content">
    <h2 class="news_heading">JS Veffect</h2>
  </div>
</a>
</div>
<div class="news_wrapper">
  
  <a class="news_cont" href="./news.html">
    <div class="img_cont">
      
    </div>
    <div class="news_content">
      <h2 class="news_heading">JS Veffect</h2>
    </div>
  </a>
</div>
</div>
<div class="news_wrapper">
  
  <a class="news_cont" href="./news.html">
```

```
<divclass="img_cont">

    <imgsrc="../assets/pexels-cottonbro-3944418 1.png"
alt=""class="news_thumbnail">

</div>

<divclass="news_content">

    <h2class="news_heading">JSVeffect</h2>

    <p>Lorem ipsum dolor sit ametconsecteturadipisicingelit.
Rerumevenietquibusdam autem iste, eligendi nihil
quodmolestiasfacereinciduntquiaofficiaatquedistinctioconsequuntur qui,
suscipitvoluptates quasi minusipsum.</p>

</div>

</a>

</div>

</section>

<scriptsrc="../js/main.js"></script>

<scriptsrc="../js/index.js"type="module"></script>

</body>

</html>
```

Login.html

```
<!DOCTYPEhtml>

<htmllang="en">

    <head>

        <metacharset="UTF-8">

        <metahttp-equiv="X-UA-Compatible"content="IE=edge">

        <metaname="viewport"content="width=device-width,initial-scale=1.0">

        <title>LoginandSignUpPage</title>
```

```
<!--font awesome-->

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.2.0/css/all.min.css">

<!--customcssfilelink-->

<linkrel="stylesheet"href="../css/login.css">

</head>

<body>

<divclass="container"id="container">

  <divclass="form-containersign-up-container">

    <formid="signup-form"onsubmit="returnfalse;">

      <h1>CreateAccount</h1>

      <span>Youcanuseyourcustomemail</span>

      <input type="text" placeholder="NAME" class="box"
requiredautocomplete="name">

      <input type="email" placeholder="E-mail" class="box"
requiredautocomplete="email">

      <input type="password" placeholder="PASSWORD"
class="box"required autocomplete="current-password">

      <input type="password" placeholder="RE-ENTER
PASSWORD"class="box"requiredautocomplete="current-password">

      <buttonclass="btn">SignUp</button>

      <h2></h2>

    </form>

  </div>

  <divclass="form-containersign-in-container">

    <formonsubmit="returnfalse;">

      <h1>SignIn</h1>

      <span>Enteryoursignincredentials</span>
```

```
        <input type="email" placeholder="E-mail"
class="box"autocomplete="email">
```

```
        <input type="password" placeholder="PASSWORD"
class="box"autocomplete="current-password">
```

```
        <buttonclass="btn">SignIn</button>
```

```
        <h2></h2>
```

```
    </form>
```

```
</div>
```

```
<divclass="overlay-container">
```

```
    <divclass="overlay">
```

```
        <divclass="overlay-paneloverlay-left">
```

```
            <divclass="container-checkbox">
```

```
                <ulclass="ks-cboxtags">
```

```
                    <li><input type="checkbox"
id="checkboxOne"value="sport"checked><labelfor="checkboxOne">sport</lab
el></li>
```

```
                    <li><input type="checkbox"
id="checkboxTwo"value="tech"checked><labelfor="checkboxTwo">tech</lab
el></li>
```

```
                    <li><input type="checkbox"
id="checkboxThree"value="world"><labelfor="checkboxThree">w
orld</label></li>
```

```
                    <li><input type="checkbox"
id="checkboxFour"value="finance"><labelfor="checkboxFour">fi
nance</label></li>
```

```
                    <li><input type="checkbox"
id="checkboxFive"value="politics"checked><labelfor="checkboxFive">politics
</label></li>
```

```
                    <li><input type="checkbox"
id="checkboxSix"value="business"><labelfor="checkboxSix">business</label></li>
```

```
                    <li><input type="checkbox"
id="checkboxSeven"value="economics"><labelfor="checkboxSeven">economics</la
bel></li>
```



```
<li><input type="checkbox"
id="checkboxEight" value="entertainment"><label for="checkboxEi
ght">entertainment</label></li>
```

```
        <li><input type="checkbox"
id="checkboxNine"value="beauty"><labelfor="checkboxNine">be
auty</label></li>
```

```
        <li><input type="checkbox"
id="checkboxTen"value="travel"><labelfor="checkboxTen">trav
el</label></li>
```

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

```
        <li><input type="checkbox"
id="checkboxTwelve"value="food"><labelfor="checkboxTwelve">fo
od</label></li>
```

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

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

```
    </ul>
```

```
    </div>
```

```
    <h1>Alreadyregistered?</h1>
```

```
    <buttonclass="btn"id="signin">signin</button>
```

```
    </div>
```

```
    <divclass="overlay-paneloverlay-right">
```

```
    <h1>Welcometolatestworldupdates!</h1>
```

```
    <buttonclass="btn"id="signup">signup</button>
```

```
    </div>
```

```
    </div>
```

```
    </div>
```

```
    </div>
```

```
    <scriptsrc="../js/login.js"type="module"></script>
```

```
    </body>
```

</html>

News.html

```
<!DOCTYPEhtml>

<htmllang="en">

<head>

  <metacharset="UTF-8">

  <metahttp-equiv="X-UA-Compatible"content="IE=edge">

  <metaname="viewport"content="width=device-width,initial-scale=1.0">

  <linkrel="stylesheet"href="../css/news.css">

  <title>Document</title>

</head>

<body>

  <navid="head_nav">

    <divclass="title_container">

      <imgid="ham_icon"src="../assets/hamburger1.svg"alt="ham_icon">

      <h1id="app_name">NewsApp</h1>

      <!--<divclass="search_container">

        <input

          type="text"id="s

          earch_box"

          placeholder="Searchfortopics,locationsandresources"

        >

      </div> -->

      <imgid="user_icon"src="../assets/user1.svg"alt="user_icon">

      <divclass="profile_divdisplay_none">

        <h3class="logout">Logout</h3>

      </div>

    </div>

  </body>
```

```
<divclass="menu_container">
  <h3class="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>
<iframesrc=""frameborder="0">
  <!--newsAPI-->
</iframe>
<scriptsrc="../js/main.js"></script>
</body>
</html>
```

Verify.html

```
<!DOCTYPEhtml>
<htmllang="en">
<head>
  <metacharset="UTF-8"/>
  <metahttp-equiv="X-UA-Compatible"content="IE=edge"/>
  <metaname="viewport"content="width=device-width,initial-scale=1.0"/>
  <linkrel="stylesheet"href="../css/verify.css"/>
```

```
<title>Verify</title>
</head>
<body>
  <navid="head_nav">
    <divclass="title_container">
      <h1id="app_name">NewsTracker</h1>
    </div>
  </nav>
  <divclass="status-cont">
    <divclass="welcome-text">Please wait...🚧 </div>
  </div>
</body>
<scriptsrc="../js/verify.js"type="module"></script>
</html>
```

GitHub

<https://github.com/IBM-EPBL/IBM-Project-53659-1661448543>