

Project Name **News Tracker Application**
Domain **Cloud Application Development**
Team ID **PNT2022TMID30960**

Team Leader	Team Members
DEVIPRIYA S	ANUSUYA R
	ANUSUYA R
	GOWSALYA P

1. INTRODUCTION

Project Overview

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.

Purpose:

Newspapers are one of the most popular and most needed commodities in our daily life. In today's busy world, reading newspapers has become one of the traditional ways of getting the news. News is produced every minute and distributed via television, radio, and the Internet, so the news updated the next morning is already outdated. So newspaper and magazine publishers have a hard time keeping up with the pace. Change is needed and publishers must embrace mobile.

2. LITERATURE SURVEY

References

- 1.<https://flask.palletsprojects.com/en/2.1.x/tutorial/>
- 2.<https://www.ibm.com/docs/en/db2-for-zos/11?topic=zos-db2-basics-tutorial-working-db2-interactively>
- 3.<https://www.ibm.com/in-en/products/watson-assistant/docs-resources>
- 4.<https://www.ibm.com/blogs/cloud-archive/2019/03/video-containerization-explained/>
- 5.<https://developer.ibm.com/components/cloud-foundry/tutorials/>

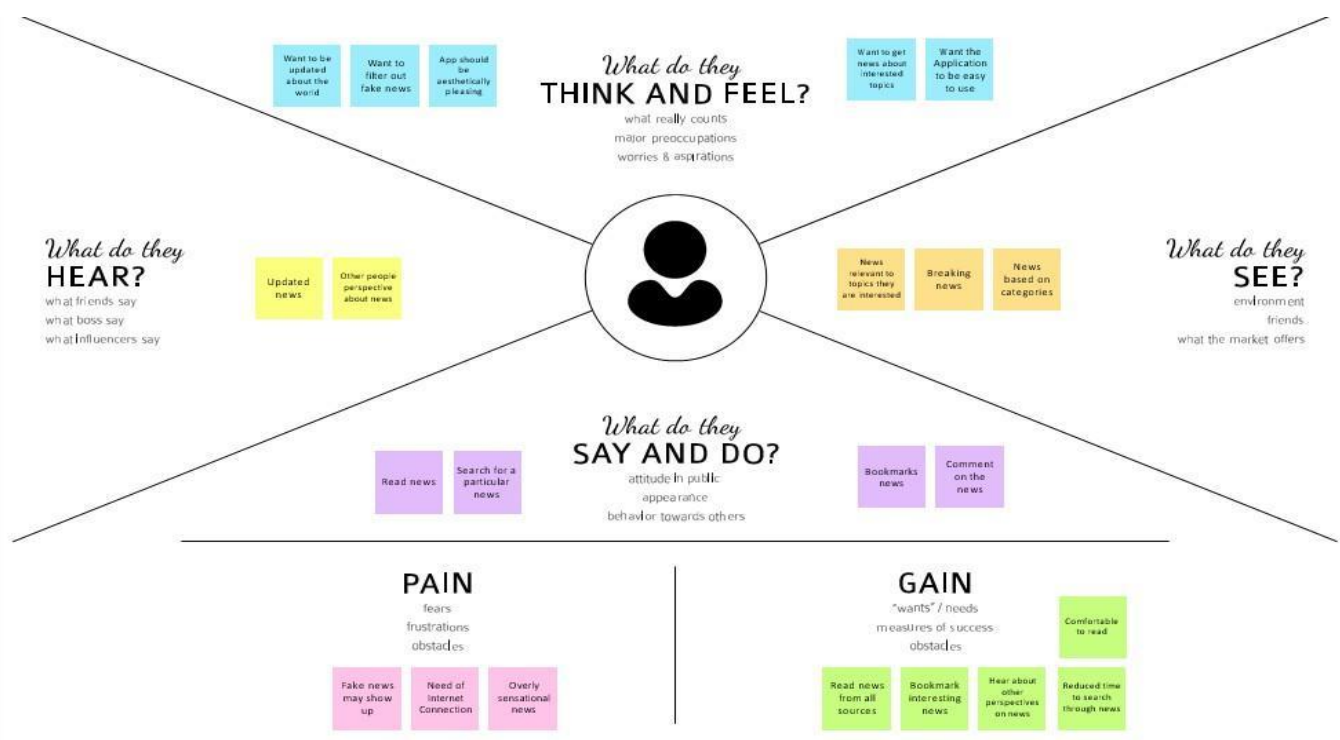
Problem Statement Definition

In today's world we have a lot of work and there is no time to cope with everything in the schedule. So, it is not possible to read the newspaper. By using this application, the user can access the news they are interested in and get a quick peek for the day. 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.

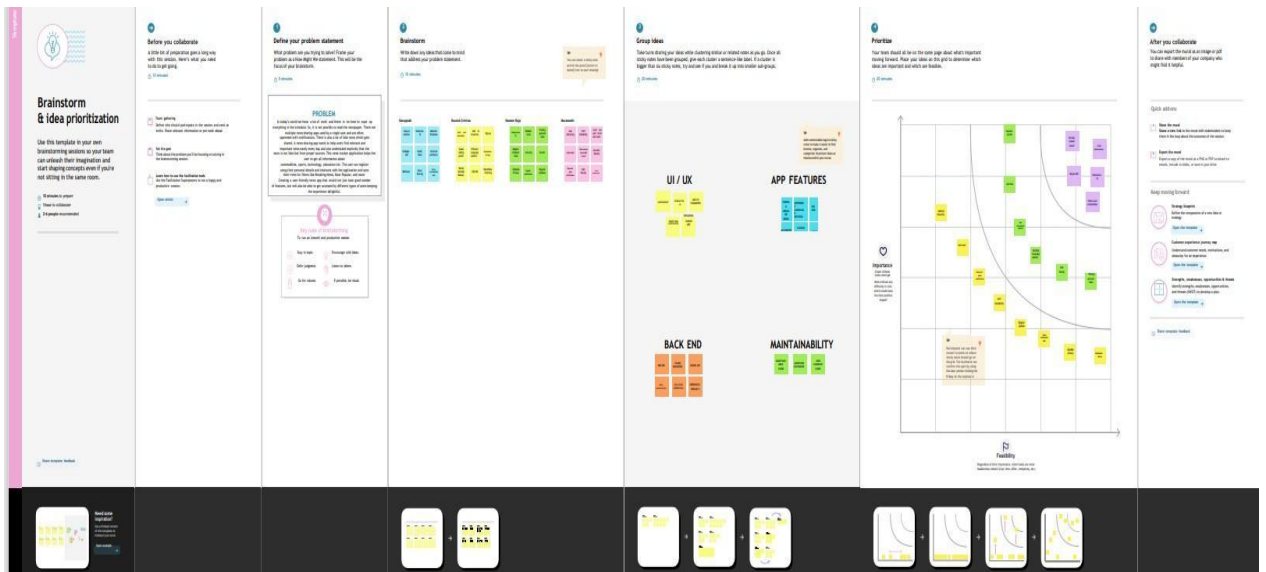
explicitly that the news is not fake but from proper sources. This news tracker application helps the user to get all information about commodities, sports, technology, education, etc. The user can register using their personal details and interacts with the application and save time. • Creating an app that benefits from the smart news filtering functionality where it allows its users to segregate various news sections, comprising of business, sports, political, international, and more. The users can opt for filters like Breaking News, Most Popular, and more. • Creating a user-friendly news app that would not just have a good number of features, but will also be able to get accessed by different types of users keeping the experience delightful.

3. IDEATION & PROPOSED SOLUTION

Empathy Map Canvas



Ideation & Brainstorming



Proposed Solution

S.NO	Parameter	Description
1	Problem Statement (Problem to be solved)	Statement: Every day, a lot of events happen worldwide and we rely on newspapers, television, and news articles to get reliable and trustworthy information about these events. Description: As a result, we created a platform that offers such news from reliable sources worldwide, in an organized and efficient manner.
2	Idea / Solution description	One platform for all local and worldwide news. Trustworthy and Reliable News. Fast and efficient system. Preventing the spread of False information. Data Storage and Backup. Communication.
3	Novelty / Uniqueness	A cloud computing-based news application that generates news and reports about the happenings around the world using computers and networks (Internet). News is based on the most reliable and trustworthy resources around the world. Developing the Eco-Friendly & sustainable based center.

4	Social Impact / Customer Satisfaction	Cloud computing offers a way to create, coordinate, and share information across the globe. The adoption of cloud-based services gives access to a wider range of data and sharing of important
		information in an efficient way. Our platform eliminates the spread of false news and exposes the injustice and wrongdoings done by false groups. Eliminating fake news provides a better understanding of the real events happening in the world and the spread of knowledge.
5	Business Model (Revenue Model)	Our application covers a range of topics including politics, business, criminal justice, environment, technology etc. Our business model will be monetized and generate income by showing advertisements and Operating on a monthly and yearly subscription model.
6	Scalability of the Solution	Scalability is one of the benchmarks of cloud services and their adoption with businesses. Cloud scalability will help to increase the user base by increasing resource allocation and meeting the changing demands without sacrificing the efficiency or quality of our customer service and internal operations. Providing fast and reliable news while maintaining positive relationships with your customers.

Problem Solution fit

Project Title: News Tracker Application Project Design Phase-I - Problem Solution Fit Team ID: PNT2022TMD30960

1. CUSTOMER SEGMENT(S) Hackers, CCTNS (crime and criminal tracking network and system), commercial and scientific purposes, media monitoring.	6. CUSTOMER CONSTRAINTS As much as service providers need to cater to the needs of their customers, it is just as important for them to satisfy their customers.	5. AVAILABLE SOLUTIONS The internet and the intermingling of social media with important worldwide events has made it almost impossible to live under a rock. But finding a reliable one-stop shop to engage with your news can be somewhat of a challenge.
2. JOBS-TO-BE-DONE / PROBLEMS We've written a whole white paper on the topic and examples of how our stories have produced such change from the registration. It corrupt officials to the passage of news laws are compiled in our annual reports, on this page you'll find our reporting on the impact of our work.	9. PROBLEM ROOT CAUSE User doesn't want to waste time figuring out the relevance of the news; young people don't read news from apps, usually depend on social media to get updated. Users sometimes get overwhelmed by too many categories.	7. BEHAVIOUR User experience, content performance, popularity, sharing the news, conversion rate optimization, checkout process, website accessibility, live chat and first and foremost, user data is super important.
3. TRIGGERS This news app is a big interactive database that think of it like would any other piece of journalism. It just uses software instead of words and pictures.	10. YOUR SOLUTION Realtime monitoring, working condition is ensured and restricted permission from entering highly secured areas.	8. CHANNELS OF BEHAVIOURS 8.1 ONLINE A few of these local stories were the result of formal partnerships, but the majority were done quite independently -- in some cases, we didn't have much if any knowledge that the story... 8.2 OFFLINE Although marketing has gone largely digital, the offline advertising world is still a significant one, means a lot of money gets spent on display ads.
4. EMOTIONS: BEFORE / AFTER Fearness, satisfaction, anger and two sentiments (positive and negative) using to extraction.		

Identifying Problem Detecting Problem Exploring Solution Researching Solution Implementing Solution

03:15 PM 15-11-2022

4. REQUIREMENT ANALYSIS

Functional requirement

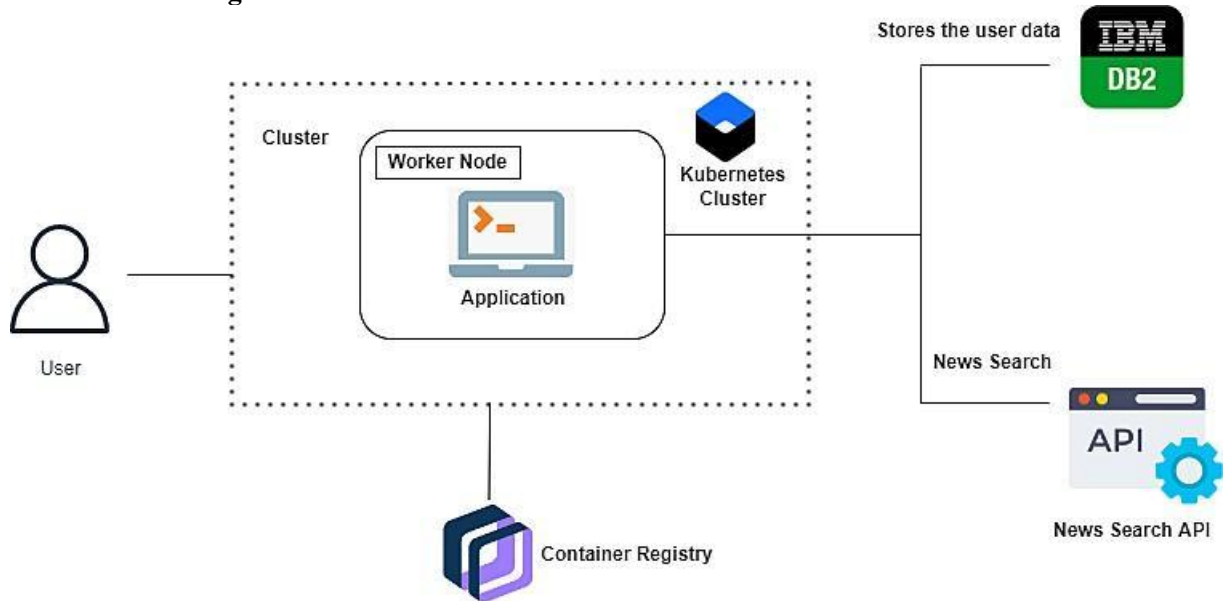
FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Installation	User can install the app from the Google play store or from the website
FR-2	User Registration	Registration through Form Registration through Gmail
FR-3	User Confirmation	Confirmation via Email
FR-4	User Login	User should log in the app with the user's name and password

Non-Functional requirements

FR No	Non-Functional Requirement	Description
NFR-1	Usability	Everyone can understand the process of using the app easily by the commands given in the app
NFR-2	Security	It is a more secured app. No fake news can be shared.
NFR-3	Performance	Performance of the app is very great
NFR-4	Availability	More subcategories are available

5. PROJECT DESIGN

5.1 Data Flow Diagrams



Solution & Technical Architecture

- ❖ The user interacts with the application.
- ❖ Registers by giving the details.
- ❖ Integrate the application with news APIs and store the data in the database.
- ❖ The database will have all the details and the user can search for the news by using a search bar.

User Stories

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.

6. PROJECT PLANNING & SCHEDULING

Sprint Planning & Estimation

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 for the application by entering my email, password, and confirming Kowisck Srinivas my password.	2	High	Devipriya S Anusuya R Anusuya R Gowsalya P
Sprint-1		USN-2	s a user, I will receive a confirmation email once I have registered for the application	1	High	Devipriya S Anusuya R Anusuya R Gowsalya P
Sprint-2		USN-3	As a user, I can register for the application through Facebook	2	Low	Devipriya S Anusuya R Anusuya R Gowsalya P
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	Devipriya S Anusuya R Anusuya R Gowsalya P
Sprint=1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Devipriya S Anusuya R Anusuya R

						Gowsalya P
Sprint-3	Dashboard	USN-6	As a user, I will able to see the login and profile details	2	Medium	Devipriya S Anusuya R Anusuya R Gowsalya P
Sprint-1	IBM cloud	USN-10	As a tracker, I collect all the NEWS from the cloud	1	Medium	Devipriya S Anusuya R Anusuya R Gowsalya P
Sprint-3	IBM cloudant	USN-11	As a database manager, I can collect all the user details and NEWS application details	2	Medium	Devipriya S Anusuya R AnusuyanR Gowsalya P

Sprint Delivery Schedule

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Reports from JIRA

Sprint-1

The screenshot shows the Jira Software interface for the 'my testings' project. The left sidebar contains navigation options: PLANNING (Roadmap, Backlog, Board) and DEVELOPMENT (Code, Project pages, Add shortcut, Project settings). The main area displays the 'Backlog' for 'my testings'. A search bar and filters (Epic, Type) are at the top. The 'ITT Sprint 1' (15 Nov - 25 Dec) is expanded, showing 5 issues, all marked as 'DONE'. A 'Quickstart' button is visible in the bottom right corner of the sprint view.

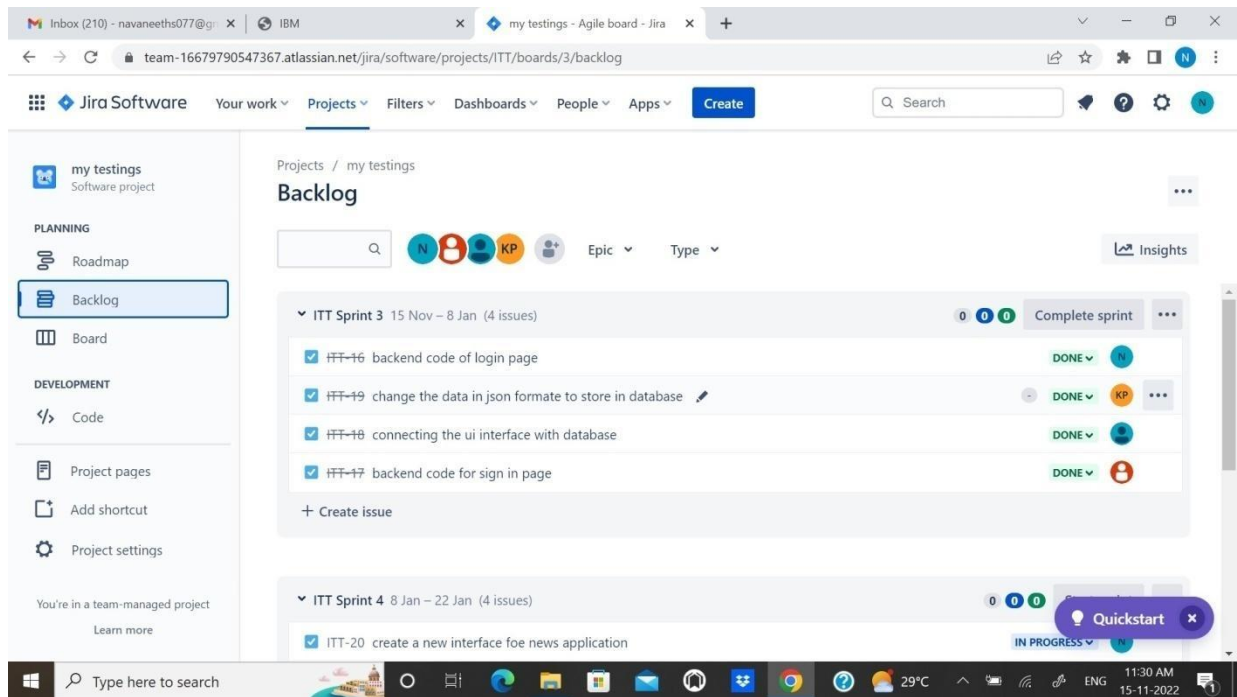
Issue ID	Issue Description	Status	Assignee
IT-4	hg	DONE	Assignee 1
IT-9	creating flask project	DONE	Assignee 2
IT-12	creating database	DONE	Assignee 3
IT-14	ideation phase	DONE	Assignee 4
IT-16	deployment of app in cloud	DONE	Assignee 5

Sprint-2

The screenshot shows the Jira Software interface for the 'my testings' project. The left sidebar contains navigation options: PLANNING (Roadmap, Backlog, Board) and DEVELOPMENT (Code, Project pages, Add shortcut, Project settings). The main area displays the 'Backlog' for 'my testings'. A search bar and filters (Epic, Type) are at the top. The 'ITT Sprint 2' (15 Nov - 11 Dec) is expanded, showing 4 issues, all marked as 'DONE'. A 'Quickstart' button is visible in the bottom right corner of the sprint view.

Issue ID	Issue Description	Status	Assignee
IT-5	ibm_db python package	DONE	Assignee 1
IT-13	ibm cloudant package	DONE	Assignee 2
IT-14	creating login page	DONE	Assignee 3
IT-15	creating sign in page	DONE	Assignee 4

Sprint-3



The screenshot shows the Jira Software interface for the 'my testings' project. The left sidebar contains navigation options: Roadmap, Backlog (selected), Board, Code, Project pages, Add shortcut, and Project settings. The main area displays the 'Backlog' for 'my testings'. It shows two sprints: 'ITT Sprint 3' (15 Nov – 8 Jan, 4 issues) and 'ITT Sprint 4' (8 Jan – 22 Jan, 4 issues). The 'ITT Sprint 3' issues are:

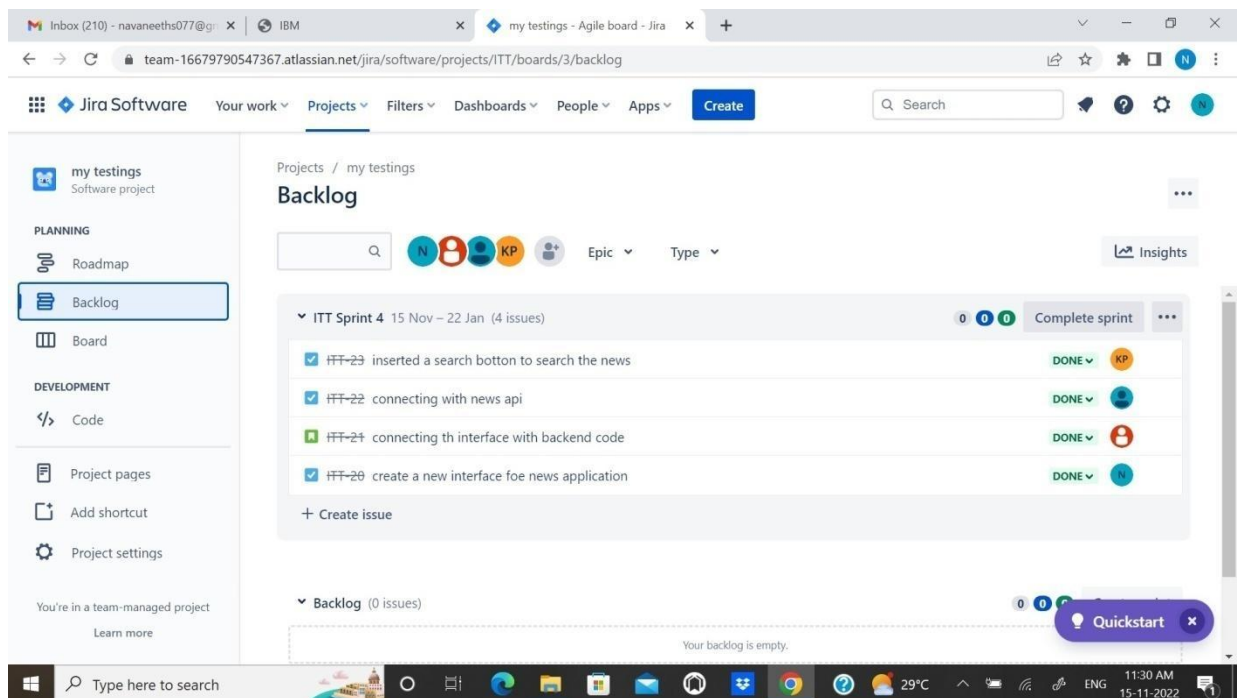
- ITF-16: backend code of login page (DONE, assigned to N)
- ITF-19: change the data in json format to store in database (DONE, assigned to KP)
- ITF-18: connecting the ui interface with database (DONE, assigned to N)
- ITF-17: backend code for sign in page (DONE, assigned to N)

The 'ITT Sprint 4' issues are:

- ITF-20: create a new interface for news application (IN PROGRESS, assigned to N)

The bottom of the screen shows the Windows taskbar with the search bar and various application icons.

Sprint-4



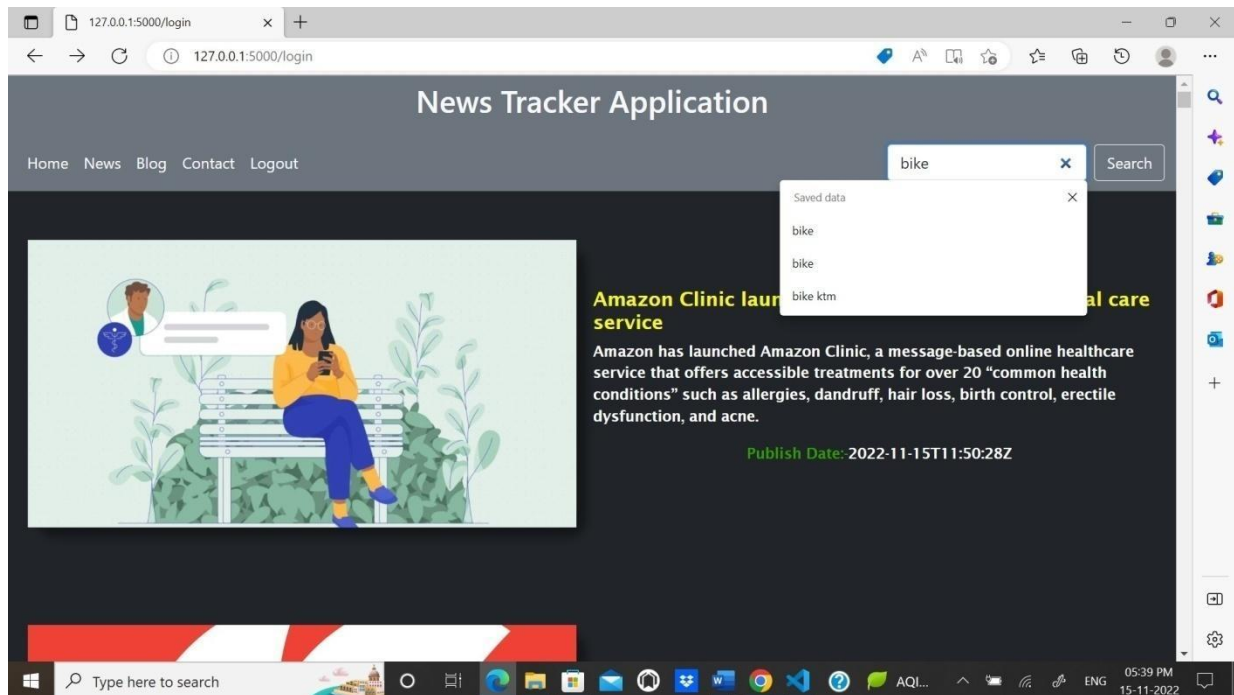
The screenshot shows the Jira Software interface for the 'my testings' project. The left sidebar contains navigation options: Roadmap, Backlog (selected), Board, Code, Project pages, Add shortcut, and Project settings. The main area displays the 'Backlog' for 'my testings'. It shows two sprints: 'ITT Sprint 4' (15 Nov – 22 Jan, 4 issues) and 'Backlog' (0 issues). The 'ITT Sprint 4' issues are:

- ITF-23: inserted a search button to search the news (DONE, assigned to KP)
- ITF-22: connecting with news api (DONE, assigned to N)
- ITF-24: connecting the interface with backend code (DONE, assigned to N)
- ITF-20: create a new interface for news application (DONE, assigned to N)

The 'Backlog' section is empty, with the message 'Your backlog is empty.' displayed. The bottom of the screen shows the Windows taskbar with the search bar and various application icons.

7. CODING & SOLUTIONS

7.1. Feature 1



8. TESTING

• User Acceptance Testing:

TEAM ID	PNT2022TMID30960
TEAM LEADER	DeviPriya S
PROJECT NAME	News Trecker Application

Test case ID	Feature Type	Component	Test Scenario	Pre-Requisite	Steps To Execute	Test Data	Expected Result	Actual Result	Status	Comments	TC for Automation(Y/N)	BUG ID
.loginPage_TC_01	Functional	Home Page	Verify user is able to see the Login/Signup popup when user clicked on My account button		1.Enter URL and click go 2.Click on My Account dropdown button 3.Verify login/Signup popup displayed or not	https://shopanexr.com/	Login/Signup popup should display	Working as expected	Pass			
.loginPage_TC_02	UI	Home Page	Verify the UI elements in Login/Signup popup		1.Enter URL and click go 2.Click on My Account dropdown button 3.Verify login/Signup popup with below UI elements: a.email text box b.password text box c.Login button d.New customer? Create account link e.Last password? Recovery password link	https://shopanexr.com/	Application should show below UI elements: a.email text box b.password text box c.Login button with orange colour d.New customer? Create account link e.Last password? Recovery password link	Working as expected	Fail	Steps are not clear to follow		BUG-1234
.loginPage_TC_03	Functional	Home page	Verify user is able to log into application with Valid credentials		1.Enter URL(https://shopanexr.com/) and click go 2.Click on My Account dropdown button 3.Enter valid username/email in Email text box 4.Enter valid password in password text box 5.Click on login button	Username: chalam@gmail.com password: Turing123	User should navigate to user account homepage					
.loginPage_TC_04	Functional	Login page	Verify user is able to log into application with Invalid credentials		1.Enter URL(https://shopanexr.com/) and click go 2.Click on My Account dropdown button 3.Enter Invalid username/email in Email text box 4.Enter invalid password in password text box 5.Click on login button	Username: chalam@gmail.com password: Turing123	Application should show "Incorrect email or password" - validation message.					
.loginPage_TC_04	Functional	Login page	Verify user is able to log into application with Invalid credentials		1.Enter URL(https://shopanexr.com/) and click go 2.Click on My Account dropdown button 3.Enter Valid username/email in Email text box 4.Enter invalid password in password text box 5.Click on login button	Username: chalam@gmail.com password: Turing12367860678606786	Application should show "Incorrect email or password" - validation message.					
.loginPage_TC_05	Functional	Login page	Verify user is able to log into application with Invalid credentials		1.Enter URL(https://shopanexr.com/) and click go 2.Click on My Account dropdown button 3.Enter Invalid username/email in Email text box 4.Enter invalid password in password text box 5.Click on login button	Username: chalam@gmail.com password: Turing12367860678606786	Application should show "Incorrect email or password" - validation message.					

1. Purpose of Document

The purpose of this document is to briefly explain the test coverage and open issues of the [ProductName] project at the time of the release to User Acceptance Testing (UAT).

2. Defect Analysis

This report shows the number of resolved or closed bugs at each severity level, and how they were resolved

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	10	4	2	3	20
Duplicate	1	0	3	0	4
External	2	3	0	1	6
Fixed	11	2	4	20	37
Not Reproduced	0	0	1	0	1
Skipped	0	0	1	1	2
Won't Fix	0	5	2	1	8
Totals	24	14	13	26	77

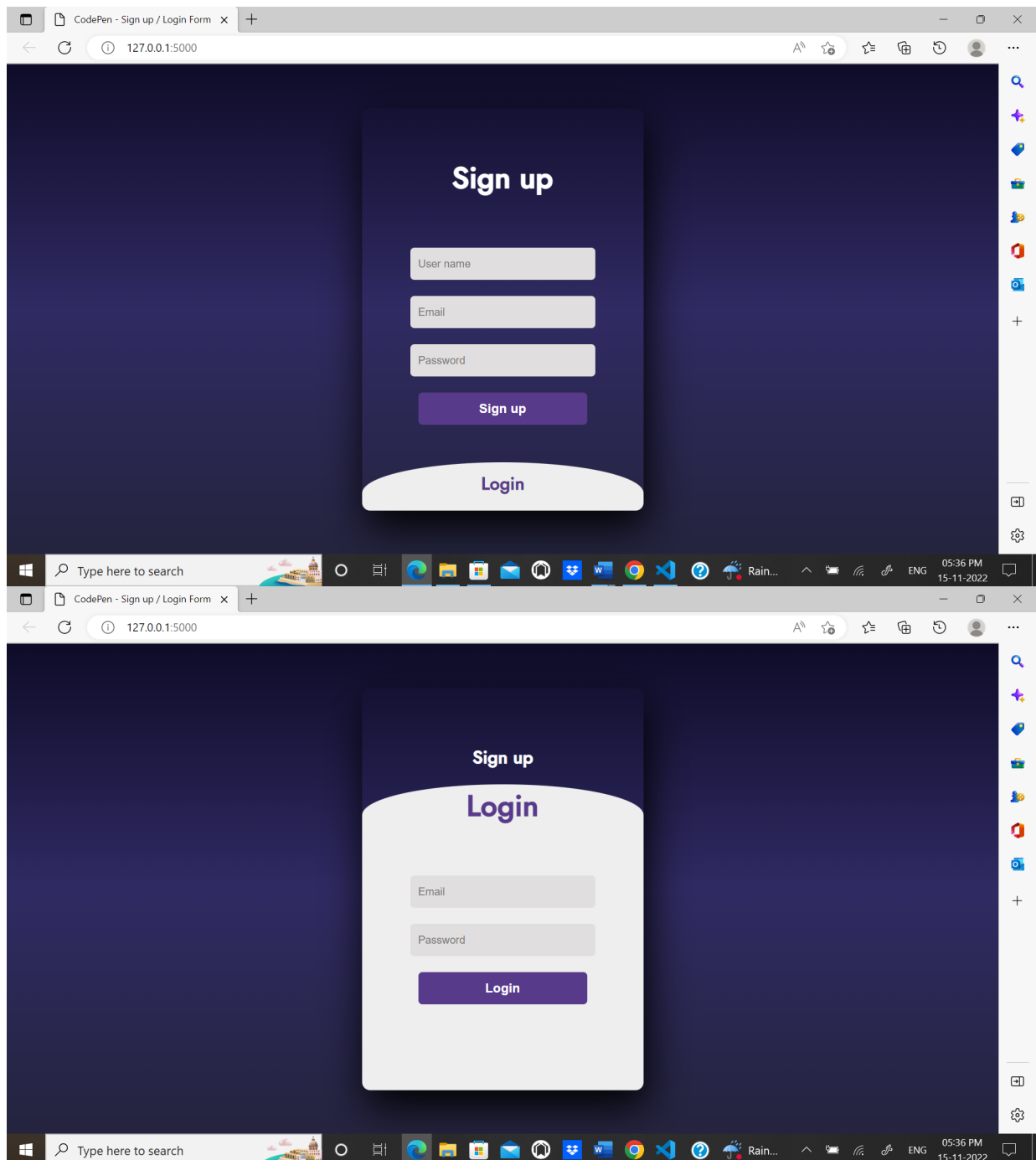
3. Test Case Analysis

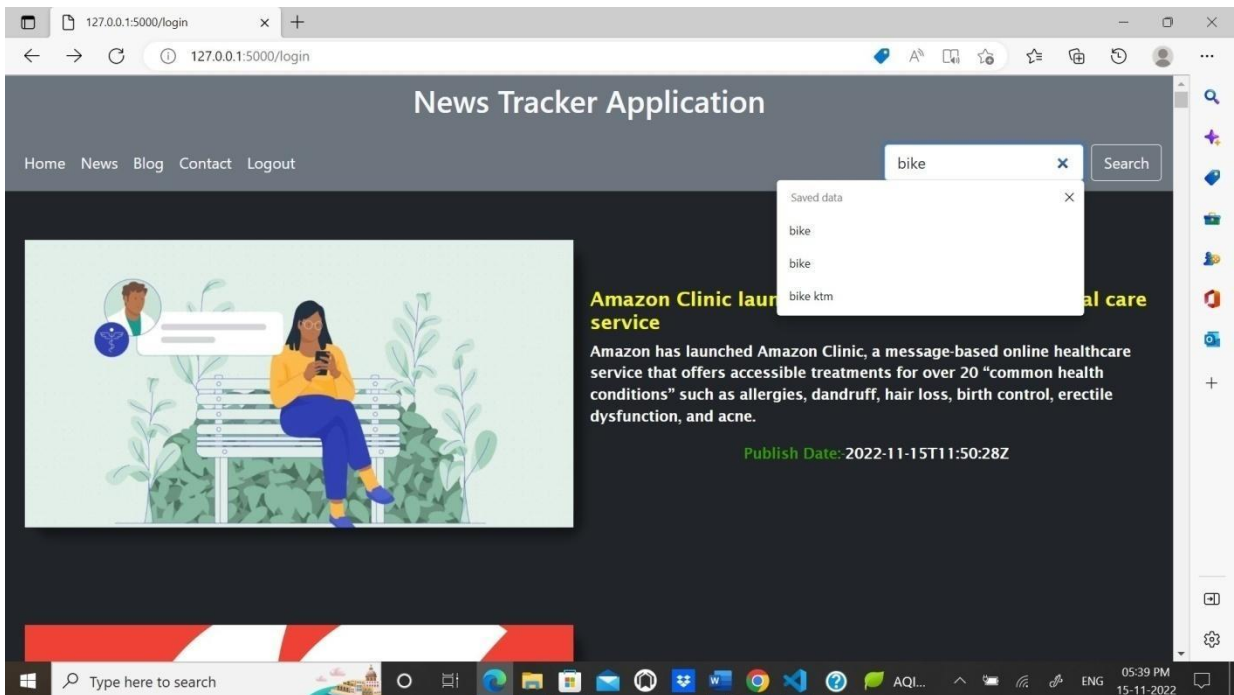
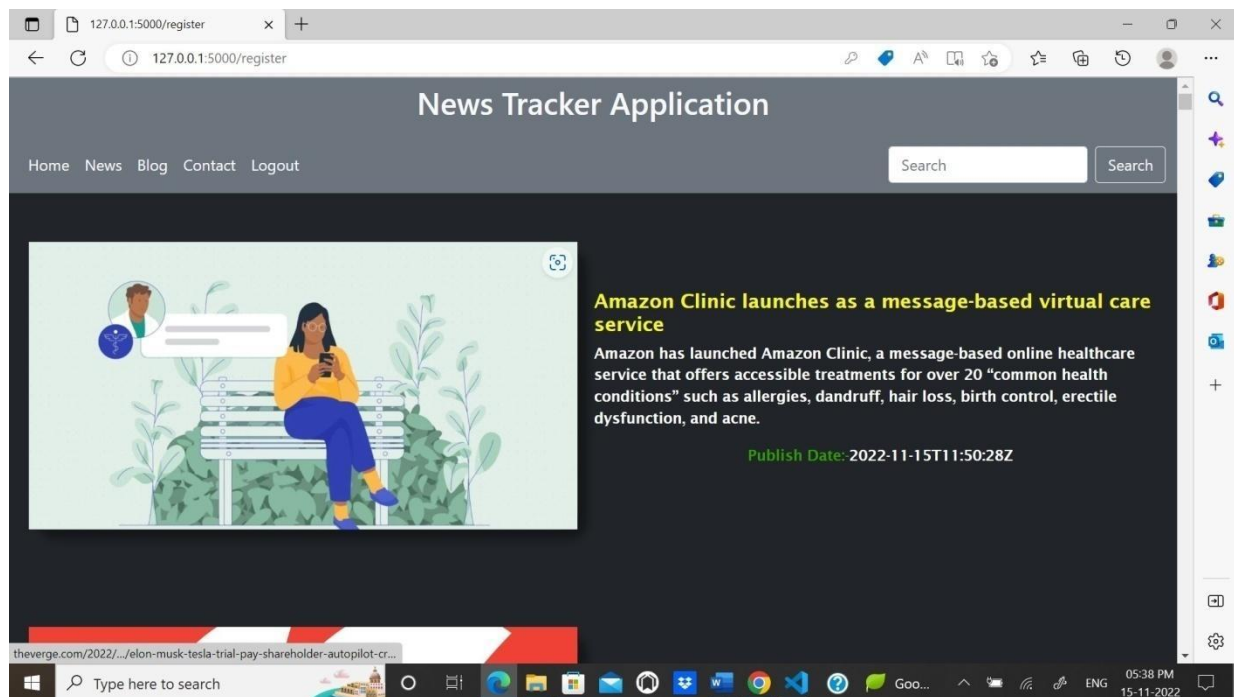
This report shows the number of test cases that have passed, failed, and untested

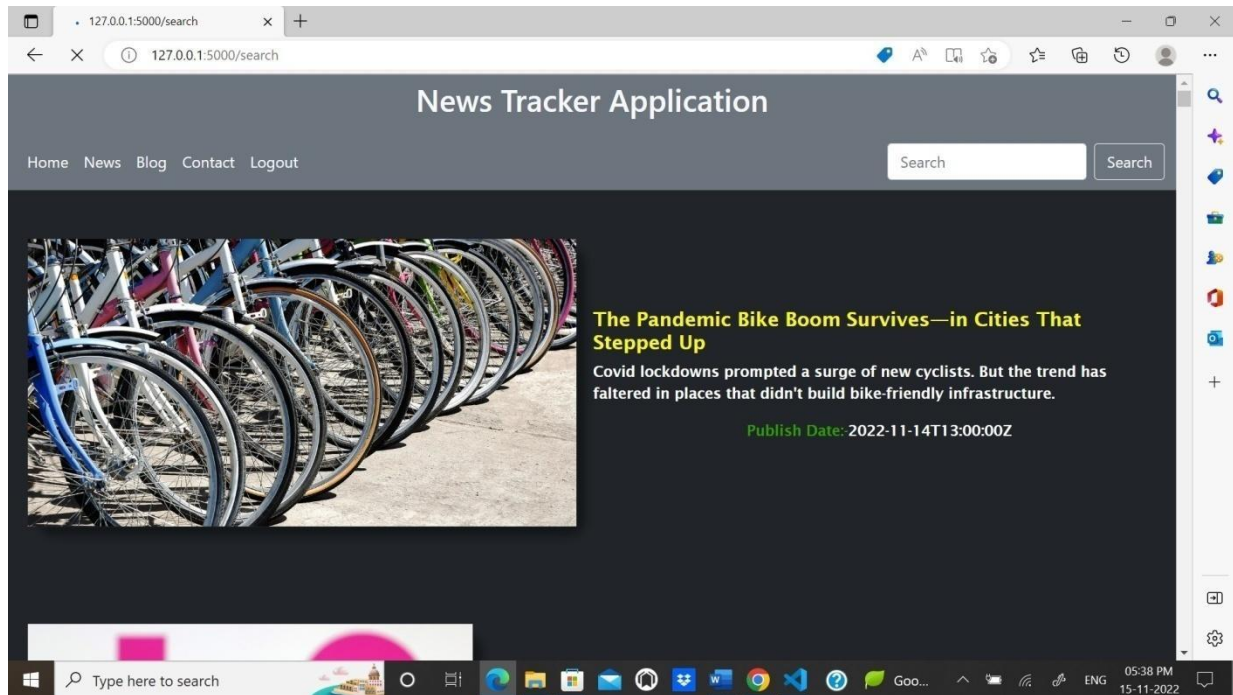
Section	Total Cases	Not Tested	Fail	Pass
Print Engine	7	0	0	7
Client Application	51	0	0	51
Security	2	0	0	2
Outsource Shipping	3	0	0	3
Exception Reporting	9	0	0	9
Final Report Output	4	0	0	4
Version Control	2	0	0	2

9. RESULTS

9.1 Performance Metrics







10. ADVANTAGES

1. All trending news will be displayed in an orderly manner.
2. We can customize the topic in which we are interested and make them display
3. The user experience is quite simple and friendly

10.1.DISADVANTAGES

1. The same news which is published on different websites can be displayed.
2. Delay response of news API can make the news collapse.

11. CONCLUSION

Thus the project using IBM CLOUD is tested, verified, and executed successfully.

12. Future scope

In the future, we planned to implement this project on a large scale which will be helpful and used by all the people.

13. APPENDIX

13.1 Source Code

Home.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="{{url_for('static', filename='css/style.css')}}">
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="icon" href="{{url_for('static', filename='img/logo.png')}}">
  <link href="https://fonts.googleapis.com/icon?family=Material+Icons"
rel="stylesheet">
  <title>{% block title %}{% endblock %}</title>
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
```

```

EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTWfSpd3yD65VohhpUuCOmLASjC"
crossorigin="anonymous">
</head>
<body>
  <nav class="bg-secondary">
    <h2 class="logo text-light">News Tracker Application</h2>
    <!-- <ul class="menu"><li class="nav-items"><a href="/">Home</a></li><li
class="nav-items"><a href="/">News</a></li><li class="nav-items"><a
href="/">Blogs</a></li><li class="nav-items"><a href="/">Contact</a></li></ul> -->
  </nav>
  <nav class="navbar navbar-expand-lg bg-secondary">
    <div class="container-fluid">
      <!-- <h2>News Tracker Application</h2> -->
      <!-- <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent"
aria-expanded="false" aria-label="Toggle navigation"><span
class="navbar-toggler-icon"></span></button> -->
      <div class="collapse navbar-collapse" id="navbarSupportedContent">
        <ul class="navbar-nav me-auto mb-2 mb-lg-0">
          <li class="nav-item">
            <a class="nav-link active text-light" aria-current="page" href="#">Home</a>
          </li>
          <li class="nav-item">
            <a class="nav-link text-light" href="#">News</a>
          </li>
          <li class="nav-item">
            <a class="nav-link text-light" href="#">Blog</a>
          </li>
          <li class="nav-item" role="contact">
            <a class="nav-link text-light" href="/contact">Contact</a>
          </li>
          <li class="nav-item" role="logout">
            <a class="nav-link text-light" href="/">Logout</a>
          </li>
        </ul>
        <form class="d-flex" role="search" action="/search" method="post">
          <input class="form-control me-2" type="search" placeholder="Search"
aria-label="Search" name="nm">
          <button class="btn btn-outline-light" type="submit">Search</button>
        </form>
      </div>
    </div>
  </nav>
  <section id="main" class="bg-dark">
    <!-- <form action="/search" method="post"><p><input type="text" name="nm"
/></p><p><input type="submit" value="submit" /></p></form> -->
    <!-- <div class="banner"></div> -->
    <!-- <div class="head">TODAY'S TOP HEADLINES</div>
{% for title,desc,img,p_date,url in contents %}
<div class="wrapper"><div class="item"><a href="{{url}}"></a></div><div class="c-box"><div class="content"><a
href="{{url}}"><h2>{{title}}</h2></a></div><div class="content"><a
href="{{url}}"><p>{{desc}}</p></a></div><div class="content"><p style="color:rgb(77,
255, 0);">Publish Date:-
</p><p>{{p_date}}</p></div></div></div>
{% endfor %} --> {% for title,desc,img,p_date,url in all %} <div class="wrapper">

```



```

<div class="item">
  <a href="{{url}}">
    
  </a>
</div>
<div class="c-box">
  <div class="content">
    <a href="{{url}}">
      <h2>{{title}}</h2>
    </a>
  </div>
  <div class="content">
    <p>{{desc}}</p>
  </div>
  <div class="content">
    <p style="color:rgb(48, 158, 0);">Publish Date:- </p>
    <p> {{p_date}}
    </p>
  </div>
</div> {% endfor %}
</section>
<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.js"
integrity="sha384- IQsoLXl5PILFhosVNubq5LC7Qb9DXgDA9i+tQ8Zj3iwWAwPtgFTxbJ8NT4GN1R8p"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.min.js"
integrity="sha384- cVKIPhGWiC2Al4u+LWgxfKTRIcfu0JTxR+EQDz/bgldoEyl4H0zUF0QKbrJ0EcQF"
crossorigin="anonymous"></script>
</body>
</html>

```

Index.html

```

<!DOCTYPE html>
<html>
  <head>
    <title>Slide Navbar</title>
    <link rel="stylesheet" href="{{url_for('static', filename='css/style2.css')}}">
    <link href="https://fonts.googleapis.com/css2?family=Jost:wght@500&display=swap"
rel="stylesheet">
  </head>
  <body>
    <div class="main">
      <input type="checkbox" id="chk" aria-hidden="true">
      <div class="signup">
        <form action="/register" method="post">
          <label for="chk" aria-hidden="true">Sign up</label>
          <input type="text" name="un" placeholder="User name" required=""> required=""
<input type="email" name="ue" placeholder="Email">
          <input type="password" name="up" placeholder="Password">
          <button type="submit">Sign up</button>
        </form>
      <div class="login">
        <form action="/login" method="post">
          <label for="chk" aria-hidden="true">Login</label>
          <input type="email" name="email" placeholder="Email">
          <input type="password" name="pswd" placeholder="Password">

```

```

        <button type="submit">Login</button>
    </form>
</div>
</body>
</html>

```

Contact.html

```

<!DOCTYPE html>
<html lang="en">
<head>
</div>
<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>Document</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
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<body>
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<tr>
<th scope="col">Team Member</th>
<th scope="col">Contact (Click the Symbol)</th>
</tr>
<tr>
<td>Devipriya S</td>
<td>
<a href="https://www.linkedin.com/in/devi-priya-s5154711b3">
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1.146v13.708c0 .633-
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12.248V6.169H2.542v7.225h2.401zm-1.2-8.212c.837 0 1.358-.554
1.358-1.248-.015-.709-.52-1.248-
1.342-1.248-.822 0-1.359.54-1.359 1.248 0 .694.521 1.248 1.327 1.248h.016zm4.908
8.212V9.359c0-
.216.016-.432.08-.586.173-.431.568-.878 1.232-.878.869 0 1.216.662 1.216
1.634v3.865h2.401V9.25c0-
2.22-1.184-3.252-2.764-3.252-1.274 0-1.845.7-2.165 1.193v.025h-.016a5.54 5.54 0 0
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</svg>
</a>
</td>
</tr>
<tr>
<td>Anusuya R</td>
<td>
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<path d="M0 1.146C0 .513.526 0 1.175 0h13.65C15.474 0 16 .513 16
1.146v13.708c0 .633-

```

```

.526 1.146-1.175 1.146H1.175C.526 16 0 15.487 0 14.854V1.146zm4.943
12.248V6.169H2.542v7.225h2.401zm-1.2-8.212c.837 0 1.358-.554
1.358-1.248-.015-.709-.52-1.248-
1.342-1.248-.822 0-1.359.54-1.359 1.248 0 .694.521 1.248 1.327 1.248h.016zm4.908
8.212V9.359c0-
.216.016-.432.08-.586.173-.431.568-.878 1.232-.878.869 0 1.216.662 1.216
1.634v3.865h2.401V9.25c0-
2.22-1.184-3.252-2.764-3.252-1.274 0-1.845.7-2.165 1.193v.025h-.016a5.54 5.54 0 0
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<td>Anusuya R</td>
<td>
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12.248V6.169H2.542v7.225h2.401zm-1.2-8.212c.837 0 1.358-.554
1.358-1.248-.015-.709-.52-1.248-
1.342-1.248-.822 0-1.359.54-1.359 1.248 0 .694.521 1.248 1.327 1.248h.016zm4.908
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.216.016-.432.08-.586.173-.431.568-.878 1.232-.878.869 0 1.216.662 1.216
1.634v3.865h2.401V9.25c0-
2.22-1.184-3.252-2.764-3.252-1.274 0-1.845.7-2.165 1.193v.025h-.016a5.54 5.54 0 0
1 .016-
.025V6.169h-2.4c.03.678 0 7.225 0 7.225h2.4z" />
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</a>
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</tr>
<tr>
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12.248V6.169H2.542v7.225h2.401zm-1.2-8.212c.837 0 1.358-.554
1.358-1.248-.015-.709-.52-1.248-
1.342-1.248-.822 0-1.359.54-1.359 1.248 0 .694.521 1.248 1.327 1.248h.016zm4.908
8.212V9.359c0-
.216.016-.432.08-.586.173-.431.568-.878 1.232-.878.869 0 1.216.662 1.216
1.634v3.865h2.401V9.25c0-
2.22-1.184-3.252-2.764-3.252-1.274 0-1.845.7-2.165 1.193v.025h-.016a5.54 5.54 0 0
1 .016-
.025V6.169h-2.4c.03.678 0 7.225 0 7.225h2.4z" />
</svg>
</a>
</td>
</tr>

```

```

    </table>
</div>
<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.js"
integrity="sha384- IQsoLXl5PILFhosVNubq5LC7Qb9DXgDA9i+tQ8Zj3iwWAwPtgFTxbJ8NT4GN1R8p"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.min.js"
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crossorigin="anonymous"></script>
</body>
</html>
Style.css body { margin: 0px; padding: 0px; background-color: rgb(69, 54, 54); } *
{ box-sizing: border-box; } ul { list-style: none; } a { text-decoration: none !important;
} nav { min-height: 60px; width: 100%; /* background-color: red; */ /* border-top: 1px
solid black !important; */ position: relative; display: flex; justify-content:
space-around; align-items: center; flex-flow: row wrap; } .logo h2 { font-size: 30px;
font-weight: bold; font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', Roboto,
Oxygen, Ubuntu, Cantarell, 'Open Sans', 'Helvetica Neue', sans-serif; color: white
!important; text-decoration: none !important; letter-spacing: 1px; } nav .menu { display:
flex; flex-flow: row wrap; justify-content: center; align-items: center; } nav .menu li a
{ height: 35px; line-height: 30px; display: flex ; text-transform: uppercase; align-items:
center; padding: 0px 22px; font-size: 15px; font-weight: bold; color: white; font-family:
'Poppins', sans-serif; letter-spacing: 1px; } nav .menu li a: hover { color: black;
background-color: white; border-radius: 20px; } #main { /* padding-top: 98px; */ } .banner
{ height: 620px; width: 100%; display: flex; flex-wrap: column; justify-content: center;
align-items: center; background-color: black; border: 1px solid rgb(98, 4, 4); } .banner
img { height: 100%; width: 100%; padding: 2px; } .head-git { height: 40px; width: 100%;
justify-content: center; align-items: center; background-color: rgb(250, 244, 244);
display: flex; flex-flow: row; margin-bottom: 5px; } .head-git h2 { font-size: 18px;
font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
color: black; } .head-git h2 a { text-decoration: none ; color: blue; font-size: 23px; }
.head-git h2 a: hover { color: rgb(211, 47, 41); background-color: beige; } .nav-link {
height: 100%; width: 100%; color: black; } .head { height: 50px; width: 100%; display:
flex; align-items: center; justify-content: center; color: white; font-size: 30px;
font-weight: bold; font-family: 'Times New Roman', Times, serif; padding-left: 20px;
padding-top: 10px; } .wrapper { height: 400px; width: 100%; display: flex; align-items:
center; padding: 10px; justify-content: space-between; /* background-color: rgb(68, 47,
47); */ } .wrapper .item { height: 300px; min-width: 30%; border-radius: 20px; margin:
10px; box-shadow: 10px 10px 10px rgba(0, 0, 0, 0.4); padding: 0.5px; flex-flow: column
wrap; border-bottom: 1px white; } .wrapper .item img { height: 100%; width: 100%; } .c-box
{ height: content; max-width: 50%; display: flex; align-items: center; padding: 10px;
flex-flow: column; padding: 1px; } .c-box .content { height: content; min-width: 30%;
display: flex; align-items: center; flex-flow: row wrap; } .c-box .content p { color:
#fff; font-size: 15px; font-weight: bold; font-family: 'Lucida Sans', 'Lucida Sans
Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva, Verdana, sans-serif; } .c-box
.content h2 { color: yellow; font-size: 20px; font-weight: bold; font-family: 'Lucida
Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva, Verdana,
sans-serif; } .head-f { height: 40px; width: 100%; justify-content: center; align-items:
center; border-top: 2px solid black; background-color: yellow; display: flex; flex-flow:
column; } .head-f h2 { font-size: 15px; font-family: 'Gill Sans', 'Gill Sans MT', Calibri,
'Trebuchet MS', sans-serif; color: black; }
Style2.css body { margin: 0; padding: 0;
display: flex; justify-content: center; align-items: center; min-height: 100vh; } .main {
font-family: 'Jost', sans-serif; background: linear-gradient(to bottom, #0f0c29, #302b63,
#24243e); width: 350px; height: 500px; background: red; overflow: hidden; background:
url("https://doc-08-2c-
docs.googleusercontent.com/docs/securesc/68c90smiglihng9534mvqmq1946dmis5/fo0picsplnhiucmc
012
5s29respqpr4j/1631524275000/03522360960922298374/03522360960922298374/1Sx0jhdPepnNIyds4r
nN4kHSJtU1EyWka?e=view&authuser=0&nonce=gcrocepgbb17m&user=03522360960922298374&has
h=tfhgbs86ka6divo31lbvp93mg4csvb38") no-repeat center/ cover; border-radius: 10px;

```

```

box-shadow: 5px 20px 50px #000; } #chk{ } display: none; .signup{ position: relative;
width:100%; height: 100%; } label{ } input{ } button{ color: #fff; font-size: 2.3em;
justify--weighsor: pointer; transition: .5s ease-in-out; width: 60%; height: 20px;
background: #e0dede; justify-content: center; display: flex; margin: 20px auto; padding:
10px; border: none; outline: none; border-radius: 5px; width: 60%; height: 40px; margin:
10px auto; justify-content: center; display: block; color: #fff; background: #573b8a;
font-size: 1em; font-weight: bold; margin-top: 20px; outline: none; border: none;
border-radius: 5px; transition: .2s ease-in; cursor: pointer; } button:hover{ background:
#6d44b8; } .login{ } height: 460px; background: #eee; border-radius: 60% / 10%; transform:
translateY(-180px); transition: .8s ease-in-out; .login label{ color: #573b8a; transform:
scale(.6); } #chk:checked ~ .login{ transform: translateY(-500px); } #chk:checked ~ .login
label{ transform: scale(1); } #chk:checked ~ .signup label{ transform: scale(.6); }

```

app.py

```

from cloudant.client import Cloudant
from cloudant.error import CloudantException
from cloudant.result import Result,
ResultByKey from flask import Flask,
render_template, request from newsapi import
NewsApiClient

```

```

serviceUsername = "50ab9a31-993d-4eaf-abf1-21c6f737b08c-bluemix"
servicePassword = "6864bc1c41f5701310846a0a80700140c138e7c82b8c7f678ce5ab877f8b90b9"

```

```

from flask import Flask

```

```

from flask import Flask, render_template, redirect, url_for, request, session, flash

```

```

app = Flask(__name__)
serviceURL = "https://50ab9a31-993d-4eaf-abf1-21c6f737b08c-
bluemix:6864bc1c41f5701310846a0a80700140c138e7c82b8c7f678ce5ab877f8b90b9@50ab9a31-993d-
4eaf-abf1-21c6f737b08c-bluemix.cloudantnosqldb.appdomain.cloud"
client = Cloudant(serviceUsername, servicePassword, url=serviceURL)
client.connect()

```

```

app = Flask(name)

```

```

@app.route("/news")

```

```

def news():

```

```

    api_key = '4f625485702d4929a546bcf4eb9d5c79'
    newsapi = NewsApiClient(api_key=api_key)
    top_headlines = newsapi.get_top_headlines(sources="the-verge")
    all_articles = newsapi.get_everything(sources="the-verge")

```

```

    t_articles = top_headlines['articles']
    a_articles = all_articles['articles']

```

```

    news = []
    desc = []
    img = []
    p_date = []
    url = []

```

```

    for i in range(len(t_articles)): main_article = t_articles[i]
        news.append(main_article['title'])
        desc.append(main_article['description'])

```

```

        img.append(main_article['urlToImage'])
        p_date.append(main_article['publishedAt'])
        url.append(main_article['url'])
        contents = zip(news, desc, img, p_date, url)
        news_all = []
        desc_all = []
        img_all = []
        p_date_all = []
        url_all = []

    for j in range(len(a_articles)): main_all_articles = a_articles[j]
        news_all.append(main_all_articles['title'])
        desc_all.append(main_all_articles['description'])
        img_all.append(main_all_articles['urlToImage'])
        p_date_all.append(main_all_articles['publishedAt'])
        url_all.append(main_article['url'])
        all = zip(news_all, desc_all, img_all, p_date_all, url_all)

    return render_template('home.html', all=all)

@app.route("/search", methods=['POST', 'GET'])
def searchFunc():
    inputText = request.form['nm']
    api_key = '4f625485702d4929a546bcf4eb9d5c79'
    newsapi = NewsApiClient(api_key=api_key)
    top_headlines = newsapi.get_top_headlines(sources="bbc-news")
    all_articles = newsapi.get_everything(q=inputText)

    t_articles = top_headlines['articles']
    a_articles = all_articles['articles']

    news = []
    desc = []
    img = []
    p_date = []
    url = []

    for i in range(len(t_articles)): main_article = t_articles[i]
        news.append(main_article['title'])
        desc.append(main_article['description'])
        img.append(main_article['urlToImage'])
        p_date.append(main_article['publishedAt'])
        url.append(main_article['url'])
        contents = zip(news, desc, img, p_date, url)
        news_all = []
        desc_all = []
        img_all = []
        p_date_all = []
        url_all = []

    for j in range(len(a_articles)): main_all_articles = a_articles[j]

        news_all.append(main_all_articles['title'])
        desc_all.append(main_all_articles['description'])
        img_all.append(main_all_articles['urlToImage'])
        p_date_all.append(main_all_articles['publishedAt'])
        url_all.append(main_article['url'])

```

```

        all = zip(news_all, desc_all, img_all, p_date_all, url_all)

    return render_template('home.html', all=all)

def addNewUser(userName, userEmail, userPassword): jsondata = {}
    jsondata["userName"] = str(userName)
    jsondata["userEmail"] = str(userEmail)
    jsondata["userPassword"] = str(userPassword)
    myDataBase = client['database1']
    newDocument = myDataBase.create_document(jsondata)

def authenticate(userName, userEmail): myDataBase = client['database1']
    result_collection = Result(myDataBase.all_docs, include_docs=True)
    for data in result_collection:

        if data['doc']['userName'] == str(userName): return True
        if data['doc']['userEmail'] == str(userEmail): return True
    return False

def authenticateLogin(userEmail, userPassword): myDataBase = client['database1']

    result_collection = Result(myDataBase.all_docs, include_docs=True)
    for data in result_collection:
        if data['doc']['userPassword'] == str(userPassword) and data['doc']['userEmail'] ==
str(userEmail): return True
    return False

@app.route("/login", methods=['POST', 'GET'])
def loginUser():
    userEmail = request.form.get("email")
    userPassword = request.form.get("pswd")

    if (authenticateLogin(userEmail, userPassword)):
        return news()
    return render_template("index.html")

@app.route("/register", methods=['POST', 'GET'])
def registerUserData():
    userName = request.form.get("un")
    userEmail = request.form.get("ue")
    userPassword = request.form.get("up")
    print(userEmail, userName, userPassword)
    if (authenticate(userName=userName, userEmail=userEmail)):
        return render_template("index.html")
    addNewUser(userName, userEmail, userPassword)
    return news()

@app.route("/")
def home():
    return render_template("index.html")

@app.route("/contact")
def hh():
    return render_template("contact.html")

```

```
if __name__ == "__main__":  
    app.run(debug=True)
```

GitHub :

<https://github.com/IBM-EPBL/IBM-Project-48044-1660804009>

Project Demo Link:

https://github.com/IBM-EPBL/IBM-Project-48044-1660804009/blob/main/News%20Tracker/Final%20deliveries/PNT2022TMID30960_News%20TrackerApplication_video_.mp