PROJECT REPORT

PROJECT TITLE : NEWS TRACKER APPLICATION

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1. INTRODUCTION

1.1 Project Overview

News Tracker is a full stack web application which allows users to register along with their favourite topics, upon login the app displays the news based on the user's interest. The news displayed in the app is based on the New catcher API and Cric buzz API from Rapid API site. A news-sharing app wants to help users find relevant and important news easily every day and also provide explicitly news from that users locality/region which may of help to the user.

1.2 Purpose

Enabling users to view news from anywhere at anytime. It also helps to reduce thetime to get information about a specific topic. Also enables a person to get an updated news which may help Business people to make business related decisions quickly and correctly.

2. LITERATURE SURVEY

2.1 Existing problem

A news application is a major intelligent data set that recounts a report. Think about it like you would some other piece of news coverage. It simply utilizes programming rather than words and pictures. As our lives are exceptionally bustling nowadays, we frequently feel we want in excess of 24 hrs. a day to adapt up to all thatwe have in our timetable. Indeed, that is unrealistic yet diminishing the time by changingthe traditional strategy for pursuing news can help. Simply let us know what market news you're keen on and get a fast look for the afternoon. Just read what you feel is applicable and save your time. This application assists you with questioning all data about Indices, Commodities, Currencies, Future Rates, Bonds, and so on as on true sites.

INTRODUCTION:

The client wanted to create a solution to facilitate work for media professionalsthrough a location-based assignment management tool. The main challenge was tocreate a system on which journalists and other staff remained connected, and couldlocate or contact each other swiftly to relay stories faster. The built a News Tracker tocollect a variety of sources of misinformation on Facebook and aggregate the storiespublished so that they could have a clearer sense of the different types of misinformation out there. They wanted to know how frequently it was published andwhat strategies and narratives were employed to engage audiences on Facebook.

LITEREATURE SURVEY:

1 .An Improved Method for Multi-Lingual News Feed Application

Authors : Regonda Nagaraju, Mohammed Farhan Pasha, Mohammed Abdul Majeed, AdapaSujith

Published : *International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-9 Issue-1, October 2019.*

Abstract :

In the present era, the internet and new technologies are changing the information behavior of news reader .Instead of reading a copy of the local newspaper or watching the scheduled evening news, people increasingly turn to the internet for daily news updates. A Multi-Lingual news feed application is aimed at developing a web based application named multilingual news feed app. This Application deals with the user who wants to read news from the web application. User can select different countries in which a user is interested, the latest news will be fetched from the selected country. The news will be fetched and displayed based on the country selectedin its own national language & the news is categorized into 7 differentcategories. A user can select any category which they are looking for. When you are done selecting the country & category, then the page will automatically refresh and the news will be displayed on Multi- Lingual news feed application. This application also supports translation and the news can be translated into any language.

This application is fully responsive and has a good-looking user interface. Theusers will find this application much interesting for reading the news articles.

2.Exploring mobile news reading interactions for news app personalisation

Authors : *Marios Constantinides, John Dowell, David Johnson, Sylvain Malacria*

Published : Conference Paper · August 2015

Abstract :

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.

3.Topic Detection and Tracking in News Articles

Authors : *Sagar Patel, Sanket Suthar,Sandip Patel, Nehal Patel and ArpitaPatel Chandubhai S*

Published : Conference Paper in Smart Innovation · March 2017.

Abstract :

We have presented an idea in this paper for detecting and tracking topics from news articles. Topic detection and tracking are used in text mining process. From data which are unstructured in textmining we extracts previously unknown and useful information. The main purpose of this paper is to identify and follow tasks occurred in different news sources. We are going to use agglomerative clusteringbased on average linkage for detecting the topics, calculate the similarity of topics using cosine similarity and KNN classifier for tracking the topics.

2.3 Problem Statement Definition :

PROBLEM STATEMENT:

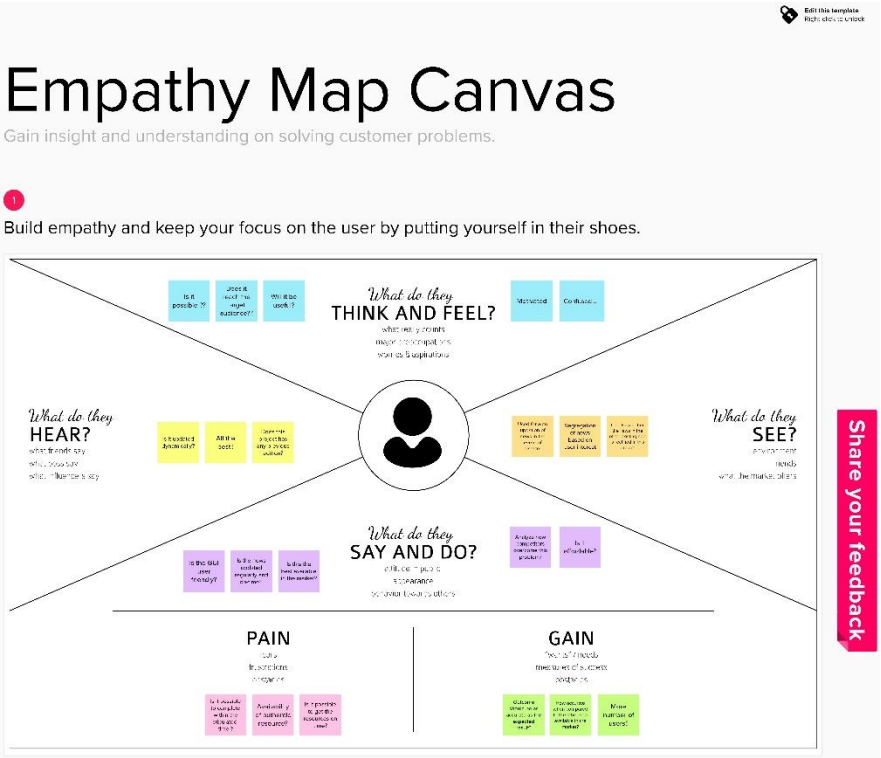
As our lives are very busy these days, we often feel we need more than 24 hrs.aday to cope up with everything we have in our schedule. Well, that's not possible but reducing the time by changing the conventional method of reading news can help. Justtell us what market news you're interested in and get a quick peek for the day. Only readwhat 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.

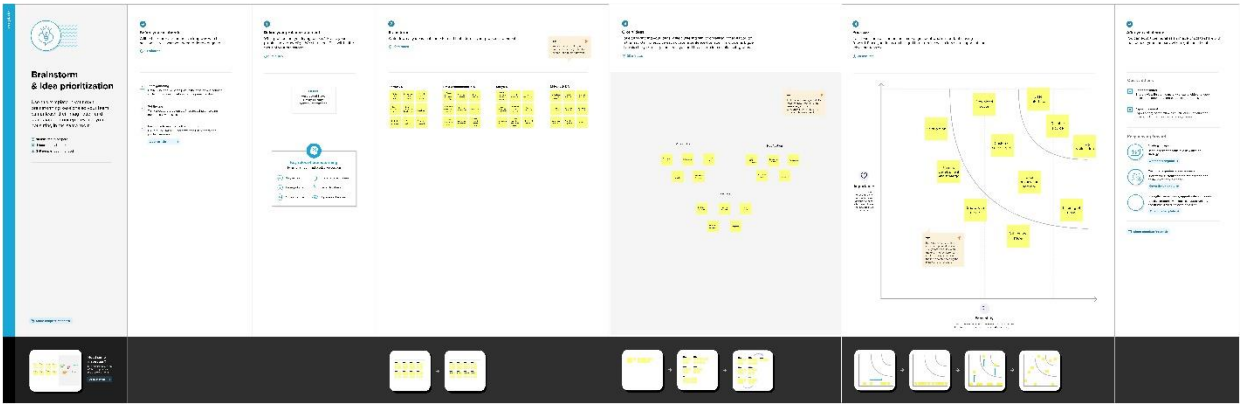
QUESTIONS	DESCRIPTION
What is the issue?	Physical newspapers are old fashioned inthis digital era. They cost money to buy, can easily be damaged, limited amount of information, not flexible to modifications, poor quality. Fixing these in such a way can make physical newspapers become extinct and their use can be abolished. If the problem isn't solved, it would become a greater problem to integrate people to become digitally aware.
When does this issue occur?	The issue occurs when the customer wants to read the news.
Who does the problem affect?	Customers
What are the boundaries of the problem?	geographic, workflow, daily life
Where is the issue occuring?	The issue occurs when people try to access information i.e during the usage. Accessing information is flawed through the usage of physical newspapers in thedigital era.

3. IDEATION AND PROPOSED SOLUTION

3.1 Empathy Map Canvas



3.2 Ideation and Brainstorming

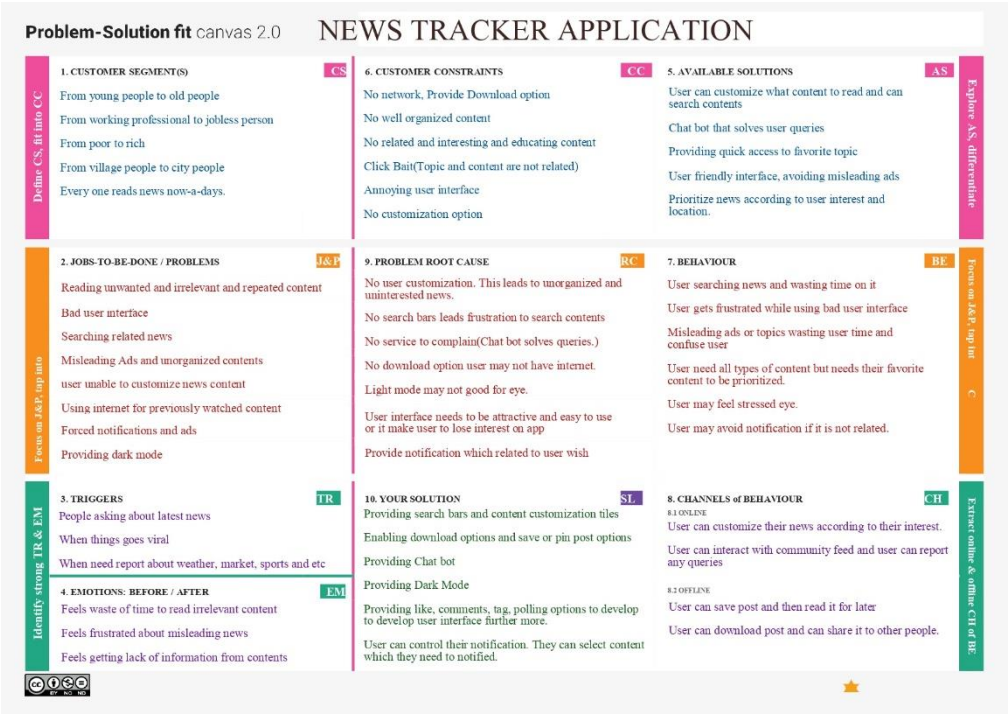


3.3 Proposed Solution

S. No	Parameter	Description
1.	Problem Statement (Problem to be solved)	• Fake news detection • News clean and crisp • Time delay in Notifications • Increase in number of irrelevant news
2.	Idea / Solution description	• Improve app speed and usage • Automatic speech recognition • User privacy and data security • Create own Wishlist • Authorized news • Compact with mobile platform
3.	Novelty / Uniqueness	• Fast loading and higher performance • Category news • Easy access and able to sharewith the colleagues • Helpful customer care support
4.	Social Impact / Customer Satisfaction	• Daily email news report • Providing more flexibility foreveryone • On going development and support strategy • Neglect irrelevant news
5.	Scalability of the Solution	In scale of 10 : • As a product - 8.5 • In point of user - 8 • As a business - 9 • As a developer -9.2
6.	Business Model (Revenue Model)	• Affordable cost of subscription • Multiplatform Support • Design consistent experience • Minimization of user input

		andwork progress

3.4 Problem Solution fit :



REQUIREMENT ANALYSIS

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Installation	User can install the app from google play store, App store and from website.
FR-2	User Registration	Registration through Form Registration through Gmail Registration through Mobile number.
FR-3	User Confirmation	Confirmation via Email Confirmation via OTP
FR-4	User login	User should login the app with the User's name or email and password.
FR-5	User Information	User can include their information in preferred topics so that they could be recommended by the application.

Non-functional Requirements:

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

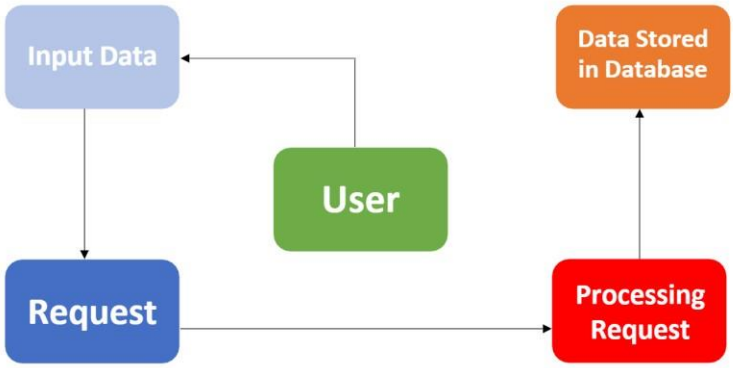
FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	This app is user friendly app, where users can clear their queries with the chatbot.
NFR-2	**Security**	This app is secured app, where users information is encrypted properly.
NFR-3	**Reliability**	This app can be accessed anywhere and anytime. User can download the news offline.
NFR-4	**Performance**	The app is well tested and hence the performance of the app is great.
NFR-5	**Availability**	Chatbot is available in this app to rectify the queries of the users. Variety of news is provided by this app. More sub categories are available.

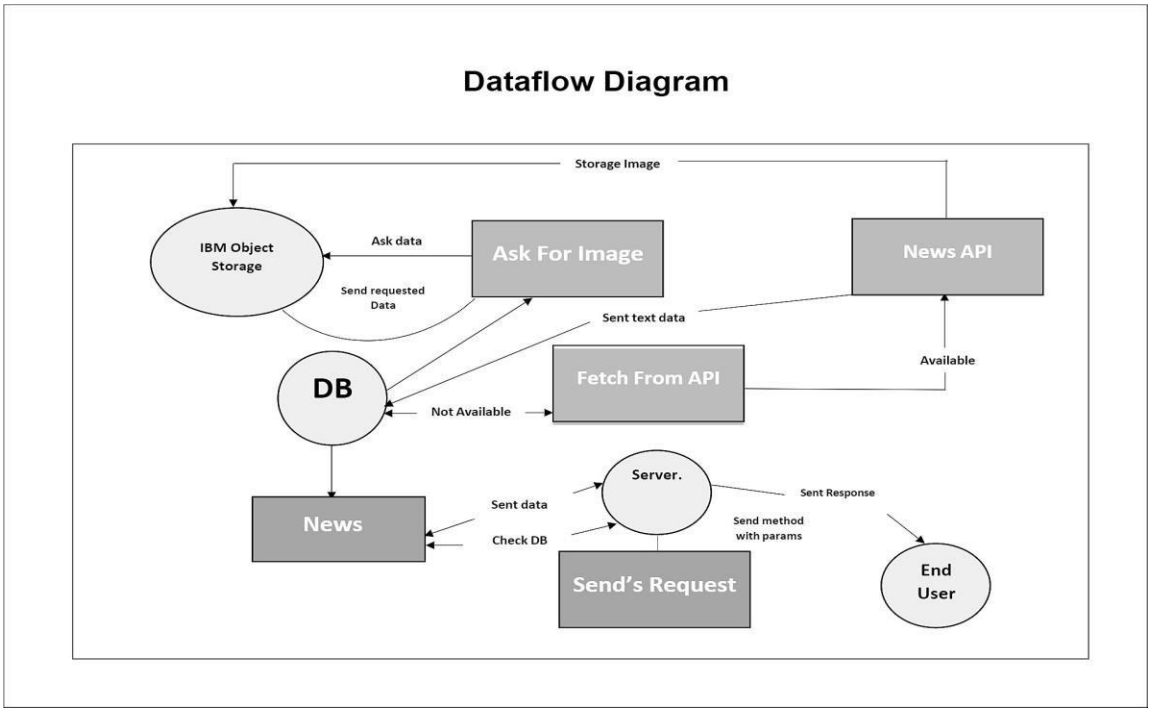
PROJECT DESIGN

5.1 Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Example:





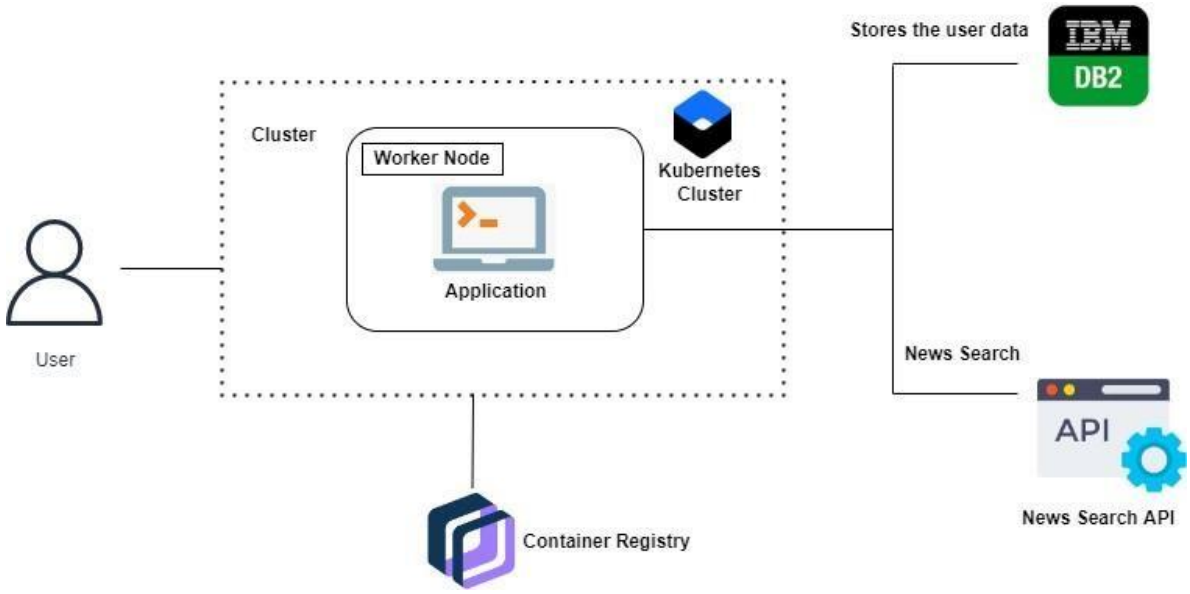
5.2 Solution Architecture and Technical Architecture :

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions.

Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders

Technical Architecture :



Project Workflow: -

- The user interacts with the application.
- Registers by giving thedetails.
- 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 the news by using a searchbar.

Table-1 : Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	User interacts with the application using web development, which is used to get the information needed for the user.	HTML, CSS, JavaScript / React Js etc.
2.	Application Logic	The Logic depends on the extraction news from the database	Python
3.	Database	Data type , configuration etc.	MYSQL, NOSQL, etc.
4.	Cloud database	Database service on cloud	IBM DB2, IBM Cloudnet etc..
5.	File storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem.
6.	Infrastructure (server/cloud)	Application deployment on local system / cloud local server configuration : Docker Cloud server configuration : Kubernetes	Local, Cloud Foundry, Kubernetes, etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
9.	External API-2	Purpose of External API used in the application	Aadhar API, etc.
10.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.

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

PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation :

Product Backlog, Sprint Schedule, and Estimation

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	10	High
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	5	High
Sprint-1		USN-3	As a user, I can register for the application through Gmail	5	Medium
Sprint-2	Dashboard	USN-4	User interface design and implementation of cards	5	High
Sprint-2	Home page	USN -5	Interface for news card in brief with headline, related image and news contributor info	10	High
Sprint-2		USN-6	Search related news	5	Medium
Sprint-3	News card description	USN-7	Constitutes location, headline, time ago, news contributor info	10	Medium

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority
Sprint-3		USN-8	News card comments, share and Related cards	10	Low
Sprint-4	News card description	USN-9	News Contributor Profile and follow option	10	High
Sprint-4	Chat bot	USN-10	Watson chat bot implementation	10	Medium

Project Tracker, Velocity & Burndown Chart: (4 Marks)

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

Velocity:

We have a 24-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

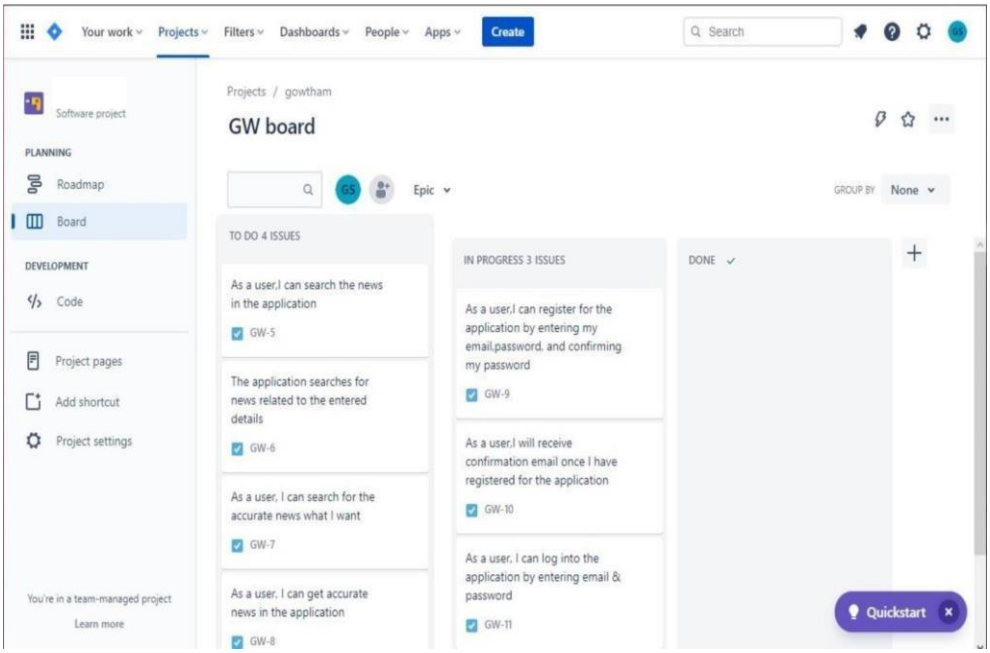
$$AV = \frac{sprint\ duration}{velocity} = \frac{\mathbf{20}}{\mathbf{24}} = 0.83$$

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

6.3 Reports from JIRA :

JIRA-BOARD



7. CODING AND SOLUTIONING

FRONTEND:

LOGIN.CSS

```
  img{
                    width: 100%;
}
        .login {
            height: 1000px;width: 100%;
            background: radial-gradient(#653d84, #332042);position: relative;
        }
        .login_box {
            width: 1050px; height: 600px; position: absolute;top: 50%;
            left: 50%;
            transform: translate(-50%,-50%);background: #fff;
            border-radius: 10px;
            box-shadow: 1px 4px 22px -8px #0004;display: flex;
            overflow: hidden;
        }
        .login_box .left{width: 41%;
           height: 100%; padding: 25px 25px;

        }
        .login_box .right{width: 59%;
           height: 100%
        }
        .left .top_link a { color: #452A5A; font-weight: 400;
        }
        .left .top_link{height: 20px
```

```
}
.left .contact{
        display: flex; align-items: center;
    justify-content: center;align-self: center; height: 100%;
    width: 73%; margin: auto;
}
.left h3{
   text-align: center;margin-bottom: 40px;
}
.left input {
    border: none; width: 80%; margin: 15px 0px;
    border-bottom: 1px solid #4f30677d;padding: 7px 9px;
    width: 100%; overflow: hidden;
    background: transparent;font-weight: 600;
    font-size: 14px;
}

{
        background: linear-gradient(-45deg, #dcd7e0, #fff);

}
.submit {
    border: none; padding: 15px 70px; border-radius: 8px; display: block; margin: auto; cursor: pointer; margin-top: 120px;
    background: #583672;color: #fff;
    font-weight: bold;
    -webkit-box-shadow: 0px 9px 15px -11px rgba(88,54,114,1);
    -moz-box-shadow: 0px 9px 15px -11px rgba(88,54,114,1);box-shadow: 0px 9px 15px -11px rgba(88,54,114,1);
```

```
}



.right {
        background: linear-gradient(212.38deg, rgba(242, 57, 127, 0.7) 0%, rgba(175, 70, 189,01.png) no-repeat;
    background-size: cover;color:  #fff;
        position: relative;
}

.right .right-text{ height: 100%; position: relative;
  transform: translate(0%, 45%);
}
.right-text h2{ display: block;width: 100%;
  text-align: center;font-size: 50px; font-weight: 500;
}
.right-text h5{ display: block;width: 100%;
  text-align: center;font-size: 19px; font-weight: 400;
}

.right .right-inductor{position: absolute; width: 70px;
  height: 7px; background: #fff0;left:  50%; bottom: 70px;
  transform: translate(-50%, 0%);
}
.top_link img {width: 28px;
```

```
        padding-right: 7px;margin-top: -3px;
    }
    .signup{
        display: flex;float: right;
        flex-direction: column; margin: 10px 10px 0px 15px;
    }
    .signup > form > button{border: none; padding: 15px 70px; border-radius: 8px; display: block; margin-top: 15px; float: right;
        background: #11daae;cursor: pointer; color: #fff;
        font-weight: bold;
        -webkit-box-shadow: 0px 9px 15px -11px rgba(242, 57, 127, 0.7);
        -moz-box-shadow: 0px 9px 15px -11px rgba(175, 70, 189, 0.71);
        box-shadow: 0px 9px 15px -11px rgba(242, 57, 127, 0.7);
    }
    .signup > form > h5{ font-weight: bold;float:    left; color: white; margin-right: 15px;
    }
```

NEWS.HTML

```
<!DOCTYPE
html>
                    <html lang="en">
                    <head>
                        <meta charset="UTF-8">
                        <meta http-equiv="X-UA-Compatible" content="IE=edge">
                        <meta name="viewport" content="width=device-width, initial-scale=1.0">
                        <title>Document</title>
                        <link rel="Stylesheet" href="login.css">
                    </head>
```

```
<body>

<section class="login">
<div class="signup">
<form action="">
<h5>Click here to create a new Account</h5>
<button formaction="../index.html">SignUp</button>
</form>
</div>
<div class="login_box">
<div class="left">
<div class="top_link"><a href="#"><img src="https://dri
home</a></div>
                                                    <div class="contact">
                                                    <form action="">
                                                    <h3>SIGN IN</h3>
                                                    <input type="text" placeholder="USERNAME">
<input type="password" placeholder="PASSWO
<button class="submit" formaction="./news.
</form>
</div>
</div>
<div class="right">
<div class="right-text">
<h2>News Tracker</h2>
<h5>Login to know about what is happening??</h5>
</div>

</div>
</section>
</body>
</html>
```

STYLE.CSS

```
@import url("https://fonts.googleapis.com/css2?family=Roboto&display=swap");

  * {
        box-sizing: border-box;
    }
    body {
        display: absolute;
```

```
    justify-content: center;align-items: center; margin: 0;
    background-color: #f7f8fc;
    font-family: "Roboto", sans-serif;color: #10182f;
}
.logo{
        display: flex;float: left;
}

        display: flex; align-items: center;
        justify-content: space-between;
}

}       display: flex;


        list-style: none; margin: 1rem; margin-right: 25px;margin-left: 25px ;

}

a{
        text-decoration: none;color: rgb(49, 49, 47);
}
a:hover {
            text-decoration: none;color: #daa800; opacity: 0.8; transition: 1s;
}
.container { display: flex;width: 1040px;
    justify-content: space-evenly;flex-wrap: wrap;
}
.card {
```

```
    margin: 10px; background-color: #fff;border-radius: 10px;
    box-shadow: 0 2px 20px rgba(0, 0, 0,
0.2);
    overflow: hidden;width: 300px; height: 460px;
}
.card-header img { width: 100%; height: 200px; object-fit: cover;
}
.card-body { display: flex;
    flex-direction: column; justify-content: center;align-items: flex-start;padding: 20px;
    min-height: 250px;
}

.tag {
    background: #cccccc;border-radius: 50px;font-size: 12px; margin: 0;
    color: #fff; padding: 2px 10px;
    text-transform: uppercase;cursor: pointer;
}
.tag-teal {
    background-color: #47bcd4;
}
.tag-purple {
    background-color: #5e76bf;
}
.tag-pink {
    background-color: #cd5b9f;
}
.tag-cyan{
```

```
    background-color: #62e2f3;
}
.tag-aas{
    background-color: #838485;
}

.card-body p { font-size: 13px;margin: 0 0 40px;
}
.user    { display: flex;
    margin-top: auto; margin-right: 20px;margin-top: 5px;
}

.user img {
    border-radius: 50%;width: 40px; height: 40px; margin-right:10px;
}
.user-info h5 { margin: 0; margin-top:5px;
}
.user-info small {color: black;
}
```

PAGE.HTML

```
                    <html lang="en">
                    <head>
<meta charset="UTF-8">
<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integri
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/pocrossorigin="anonymous"></scripT>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/boocrossorigin="anonymous"></script>
```

```
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="an
<title>Daily Expense</title>
<style type="text/css">body{
background-color: #EAF6F6;
}
form{
margin-left: 550px;width: 30%;
}
</style>
</head>
<body>
<nav class="h1 navbar navbar-inverse navbar-light p-3 mb-2 bg-warning text-l
<div class="container-fluid">
<div class="navbar-header">
<a class="navbar-brand" href="a">Personal Expense Tracker</a>
</div>
<ul class="nav navbar-nav navbar-right">
<li><a class="navbar-brand" href="{{url_for('login')}}"><span class="glyphic
<li><a class="navbar-brand" href="{{url_for('register')}}"><span class="glyp
</ul>
</div>
</nav>
<br>
<blockquote class="blockquote text-center">
<p class="mb-0">Fill your daily expense and minimize your unwanted expenses.
<footer class="blockquote-footer">Save and Invest your money to profit.<cite
</blockquote>
<div class="card">
<div class="card-body">Welcome Dinesh.
</div>
</div>
<br>
<div class="container">
<div class="row">
<div class="col-md-6">
<h3>Add Expense</h3>
<form action="/addexpense" method="POST">
<div class="form-group">
<label for="">Date</label>
```

```
<input class="form-control" type="datetime-local" name="date"
</div>

<div class="form-group"> <label for="">Expense name</label>
<input class="form-control" type="text" name="expensename" id=
</div>
<div class="form-group">
<label for="">Expense Amount</label>
<input class="form-control"   type="number" min="0" name="amo
</div>
<div class="form-group">
<label for=""></label>
<select class="form-control" name="paymode" id="paymode">
<option   selected hidden>Pay-Mode</option>
<option name="cash" value="cash">cash</option>
<option name="debitcard" value="debitcard">debitcard</opti
<option name="creditcard" value="creditcard">creditcard</o
<option name="epayment" value="epayment">UPI</option>
<option name="onlinebanking" value="onlinebanking">onlineb

</select>

<div class="form-group">
<label for=""></label>
<select class="form-control" name="category" id="category">
<option selected hidden>Category</option>
<option                                                    name = "food" value="food">food</option>
<option name = "entertainment" value="entertainment">Enter
<option name = "business" value="business">Business</optio
<option name ="rent" value="rent">Rent</option>
<option name = "EMI" value="EMI">EMI</option>
<option name = "other" value="other">other</option>
</select>
</div>

<input class="btn btn-danger" type="submit" value="Add" id="">

</form>
</div>
</div>
</div>
</body>
</html>
```

BACKEND:
NEWSTRACKER.JS

```
const body = document.querySelector("body");

const homeAdd = function (arg) {

arg.classList.add("home-body");

}
//axios requests that reach our server to run SA on said story and show result insidebutton
const saButtons = document.querySelectorAll(".sa-button");

for (let button of
saButtons) {
                                        button.addEventListener("click", async function (evt) {evt.preventDefault();
                                        const text = button.firstChild;
                                        const input = text.nextSibling;const value = input.value;
                                        const storyID = button.getAttribute('data-story')if (value === "Get Polarity") {
                                        try {
                                        const req = await axios.post(`/story/${storyID}/polarity`);
                                        const resp = req.data.response;input.value = resp;
                                        } catch (error) { console.error(error.response.data)
}
}
else if (value === "Get Subjectivity") {const req = await
axios.post(`/story/${storyID}/subjectivity`);const resp = req.data.response;
input.value = resp;
}
})
}

const deleteQueryButtons = document.querySelectorAll(".close")for (let button of deleteQueryButtons) {
```

```
button.addEventListener("click", async function (evt) {console.log("CLICKEDDDD")
const queryID = button.getAttribute('data-query')console.log(queryID)
const req = await axios.post(`/user/${queryID}/delete`);const resp = req.data.response;
button.value = resp;
})
}


//Replace broken images with default image

const default_avatar = 'https://secure.gravatar.com/avatar?d=wavatawindow.addEventListener("load", event => {
let images = document.querySelectorAll('img');for (let image of images) {
let isLoaded = image.complete && image.naturalHeight !== 0;if (!isLoaded) {
image.src = default_avatar;
}
}
});
```

8. ADVANTAGES & DISADVANTAGES

- This app can be accessed anywhere and anytime, So that the user can view thenews
- Its ad free
- The news is only based on the API
- It may contain some unwanted content but we don't have control over it
- The user can bookmark their favourite news

9. CONCLUSION

Thus we have developed a full stack application based on the plans and within the given time. We have tested the application in both desktop and mobile and it worked well, Overall it was a great experience. 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 position to demonstrate a complete adaptive mobile news framework providing automatic personalisation of news apps. 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.

10. FUTURE SCOPE

In future we may integrate our own news API instead of third party APIs and may develop a mobile native application so that it can be used in both android and ios.

11. APPENDIX

Project source code : https://github.com/IBM-EPBL/IBM-Project-1859-1658418555