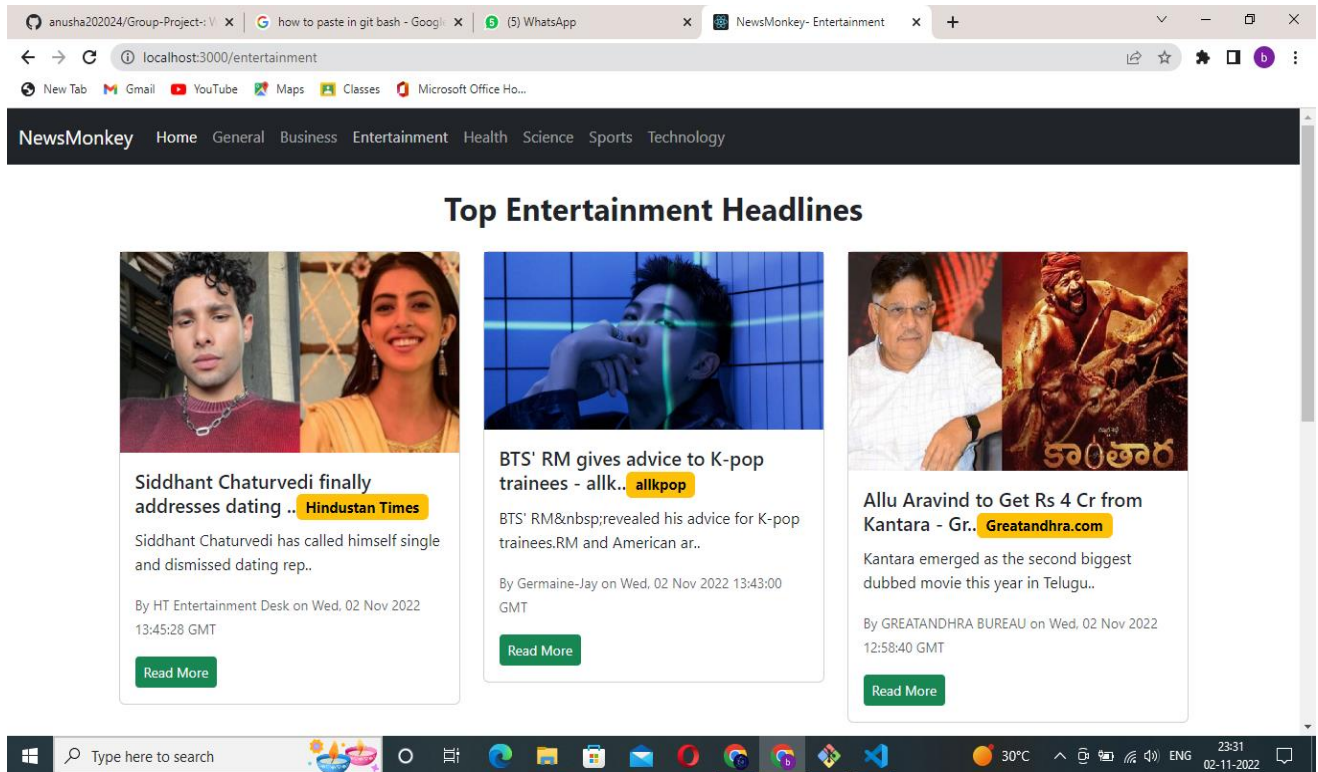# SOFTWARE REQUIREMENT SPECIFICATION

NEWS MANIA

  News is that part of communication that keeps us informed of the changing events, issues, and characters in the world outside. Though it may be interesting or even entertaining, the foremost value of news is as a utility to empower the informed.

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Introduction

We decided to create a news portal which shows the news to the user in an effective and customized manner. As nowadays it becomes necessary to know everything which is happening in the world.

A news portal is an access point to news this is generally thought of as an internet connection to a news source but the definition of a "Portal" would include a newspaper, magazine or any other access to news. A web portal is any access point to the Internet.

We name it as a "*NEWS MANIA*".

Purpose

- The main purpose of the news mania is that to provide the all type of instant and important news related to business, entertainment, sports, education etc.
- Those people who don't have time to read the newspaper and always linked with internet can get more information.
- The portal Is open to public and end user or customer can come here and browse the desired news.
- User does not have to wait for paper in the morning.

Project Scope

Technology has infiltrated multiple spheres of our lives, including the way we consume news. What used to be available in a daily newspaper is now available in the palm of our hands. No longer do people find the need to buy newspapers to indulge in what's happening around.

With access to some of the best news websites, it isn't surprising that people find online news a lot easier to handle and manage.

The most popular benefits of news sites that are worth considering -

No extra costs involved -> Although some of the popular new websites do have a monthly subscription fee, most of them up and rising ones are 100% free. All you need to do is open the website, search for the particular news that you are looking to read, and then indulge in it in your free time. That's how amazing and lucrative news websites are in today's date.

Diversity of news -> paper to keep yourself updated about the happenstances in your life, chances are that your choices are limited. The most newspaper focuses on the national news as a priority and put the global news in the backseat. With the online news sites, you have access to a plethora of news subjects to scroll through. From the national to global and sports news, you have everything with a single click.

In-depth information -> Opening a news site and reading a piece might intrigue you to explore more on the subject. If the particular news site doesn't have further information, you always have other options to look into. Finding in-depth and informative pieces of news is not as difficult with news websites as you'd often find with the physical newspaper. The news websites also offer background information, which is always a bonus.

24x7 updates -> News sites (most of them) are updated round the clock. Since the competition online is so cutthroat, it isn't surprising that every news outlet is trying to push out their exclusive piece to be able to get their cut in the market. So, irrespective of the time, you can scroll on any of the search engines and read a piece of news that you want to know more about. This isn't a convenience you'd find with the staple physical newspapers.

Accessibility -> Another reason why news sites are so much more popular is all thanks to their accessibility. All of them are available for free on the internet, enabling you to scroll through and read the news that you want more information on. Also, with a news site, you get to access it via the smartphone that you carry around with you. There's no longer any need for you to separately carry a newspaper for you to keep up with the news.

Multitasking -> Lastly, news sites enable you to multitask. Not only do you get to keep up with the news, but you also get to get your work done on the side as well, which is no doubt a benefit that most individuals would like to reap. No longer will you have to set aside a fixed time in the

 day just for reading the news. You can read your news while finishing up all the accessory work around you.

References

- React JS - You tube, W3schools.
- https://www.newsapi.ai/?gclid=CjwKCAjwtp2bBhAGEiwAOZZTuAAlBRORfl-821QtFwZCzLHwV91zd_5YIUzurgD1Jnzqe5-SZHTjJhoCib8QAvD_BwE
- Html, CSS, JavaScript - https://getbootstrap.com/
- https://reactjs.org/
- https://www.bbc.com/news
- ML model – Different algo from different sites learning
- https://www.geeksforgeeks.org/machine-learning/

Features

Customized news portal design -> Online news portal development should provide readers with the possibility to customize their hope page giving them the power to choose sections, contents, topics of their interest.

Style matters -> News portal development is a work of creativity as well. Creating the portal or website with a stylish and up-to-the-minute design is an absolute process of art and creativity. You have to know the audience and design for them.

Top Loading Bar -> It becomes necessary as nowadays user can't wait, so by showing top loading bar it will satisfy the user that his/her click is in progress.

Spinner -> So that user can wait a second, it confirms the user that the page is loading instead of showing white screen, so that user should not switch to other websites.

Proper date and time -> Recent news will benefit the user more rather than the old news.

News In depth -> User can click on the title of the news and read the full news in depth from its original source.

No reloading -> User don't have to wait after a click on the website as the page is not reloading its only changing the path.

Login/logout -> User can login and logout.

Searching -> User can search the news with keywords according to their interests.

Showing specific news -> When the user first time logins , the data will be cached and next time when the user logins it will show news of their interests.

ML model -> By giving API key to the ml model we can classify the news into various categories like entertainment, sports, business etc.

Functional Requirements

- HTML
- CSS
- ReactJs.
- JavaScript
- Bootstrap
- Flask
- Machine Learning
- Python
- Jupyter

Other Nonfunctional Requirements

Performance Requirements -> The system provides us with good performance in terms of speed and accuracy. There is fast communication between the client and server. The application is also available to the client anytime and anywhere.

Security Requirements -> The software does not allow any unauthorized access to any administrator or developer level modules of the system. It maintains the privileges granted to user at various user levels.

Software Quality Attributes -> The prioritization of the software quality attributes are as under -

1. Accurate and hence reliable.

2. Compatibility.

3. Fast speed.

External Interface Requirements

User Interfaces ->

Various user interfaces for online news portal could be:

1. News Portal

2. Home Page

3. Login Page

4. Various News type page

Hardware Interfaces ->

The System must run over the internet, all the hardware is required to be connected to the internet. As for e.g., Modem, WAN-LAN, Ethernet Cross-Cable.

Software Interfaces ->

The user needs a browser to interact with the user.

Communications Interfaces ->

A system with a web browser and stable internet connection is required for the communication purposes. Communication standards and network communication protocol ->

HTTP

HTTPS

FTP