

# Abstract:

- In The “News APP”, We have all the news around the World.
- Those olden times are gone where people use to read newspaper. In this fast new century, people read news from various news apps,
- For this, we need to download various apps, as all news providers has their own sites and apps.
- So what if we get all the news in just one web app ? .. that's why we build an Application using React JS, Node.js, LowDB and REST API i.e News APP

# Introduction:

# News APP has 129 news website resources Form around the world.

# User have to login first on the website.

# After successful login, User has the option to select their own news sources by clicking on either Add Source / Remove Source button.

# Once the user select a news source, the title of the source turns into a link, and clicking on that it will redirect the user to the articles page.

# After choosing the source of resource the news application fetches and list top 10 news from the particular source.

# If anyone want more news form particular resource, We have provided the link of particular resources so it will redirect the user to get more news.

# We have options to choose news Languages wise, country wise and category wise news like Bollywood, entertainment , general ,Technology, Business , sports, etc.

# The Web App updates news every hours form the resources.

# If we found some interesting news then we can save that news. It will be save in local database and whenever we want to read that again we can found that news easily! on the News APP

# API we have use in this project is from site <https://newsapi.org/>.

# Sponsorletter:

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04 May 2020

Ashutosh Rathi

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## LETTER OF SPORNSORSHIP

I hereby affirm, to the best of my knowledge and belief, that the project named "News APP" is sponsored by "Ashutosh Rathi" to Pranav Deelip Shimpi, Sarang Chandwadkar, Suyog Kurumkar and Mohit Kelani and the expected completion date is during the 1<sup>st</sup> week of May 2020. A News App where the user can get various news sources for current affairs at one place.

A database connectivity for saving the information is also needed in the project.

Certified by,  
Ashutosh Rathi

Date: 04 May 2020

Yours truly,  
Ashutosh Rathi

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# **Problem Statement:**

- An UPSC aspirant student wants to learn and Study the current affairs as it is one of the important topic in UPSC Examination
- For this, He has several sites bookmarked for the current news.
- He wants all the sites at one place where he can see different top news from glob.
- So for this purpose, he wants a web app where he can found all the current affairs.
- In the web app if user found any important news then he can save that news in the database
- Also, user can redirect to the original site of the resource through web app so he can gets many more news form the sites.

# Objectives:

- Create a safe Login.
- To make all the information accessible to the user at the desk in just a click away.
- To fetch top 10 news from the news websites.
- To have centralized control of records of important news from the resources.
- To ease the process of reading best news from glob and see resources form 129+ different genre, different language articles.
- If any article to be found helpful to the user then option of saving that article.

# Outcomes:

- The user will get all the current news affairs from the global resources.
- Automated save articles in just one click.
- Simple and accurate results from top 10 news.
- Ease in manage all the resources that user wants.
- User can also visit official resource website.
- Online reading Saves time.
- Do not need to download various news apps.



## S/W and H/W required:

- Visual Studio editor
- React
- NodeJs
- React JS
- REST API
- Sublime text editor
- A Computer System
- Internet Connection
- Data provided by Sponsor
- Disk space: 2 to 3 GB or more
- Processors: Intel Atom<sup>®</sup> processor or Intel<sup>®</sup> Core<sup>™</sup> i3 processor or later versions.

# Plan with timeline:

- 25<sup>th</sup> Feb - 8<sup>th</sup> March -> Learn NodeJs.
- 9<sup>th</sup> March - 16<sup>th</sup> March -> Learn ReactJs.
- 18<sup>th</sup> March - 20<sup>th</sup> March -> Learning CSS.
- 21<sup>th</sup> March- 25<sup>th</sup> March -> Learning Bootstrap.
- 26<sup>th</sup> March - 30<sup>th</sup> March -> Learning database connectivity
- 1<sup>st</sup> April - 8<sup>th</sup> April -> Implementing Sample reactJS ToDoApp.
- 9<sup>th</sup> April - 14<sup>st</sup> April -> Making of UI.
- 15<sup>th</sup> April - 17<sup>th</sup> April -> Connecting database with lowDB.
- 18<sup>th</sup> April -20<sup>th</sup> April -> Working on React Module.
- 21<sup>st</sup> April – 25<sup>th</sup> April -> Working on Rest API

- 26<sup>th</sup> April - 28<sup>th</sup> April -> Working on Test cases and errors.
- 29<sup>th</sup> April - 2<sup>nd</sup> May -> Finishing the project and final touch-up.

# Keywords:

- Centralized Control
- Simple use
- database
- REACT JS
- NODE JS
- REST API

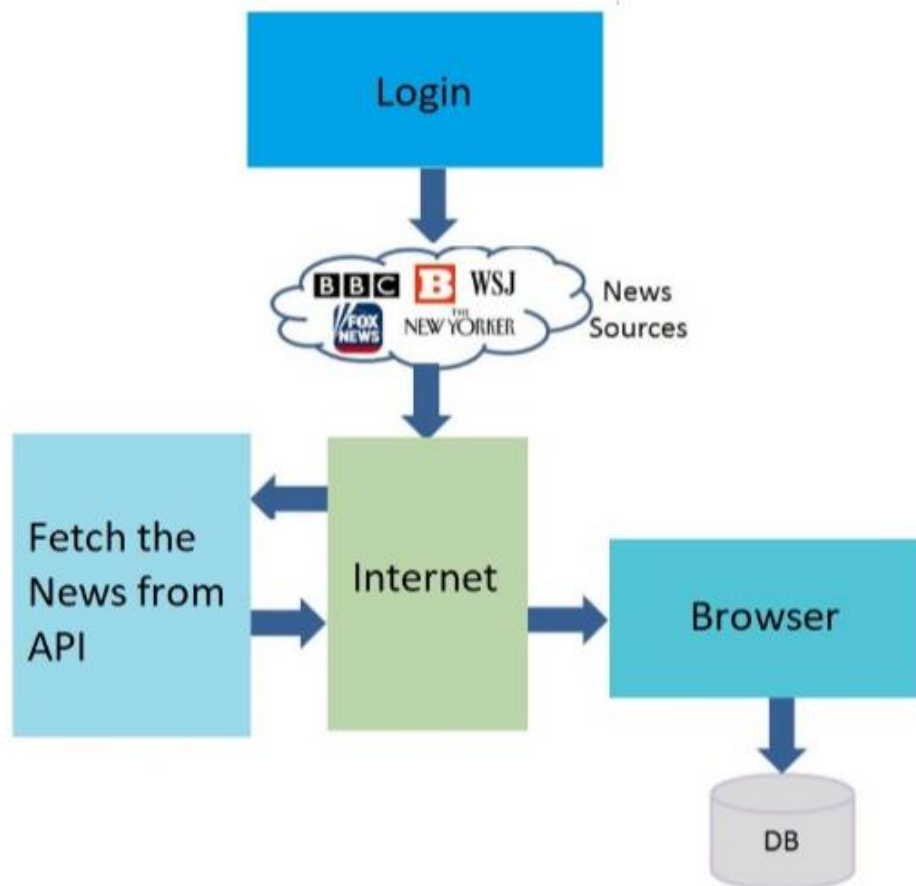
# Functional requirements:

- Proper Verification and Validation that:  
No invalid entries are there  
No duplication is present  
No missing values in the database  
Password verification
- User should be able to Login himself and  
Select his resources
- User should view the saved information.
- Top 10 news be visible to the user as well.

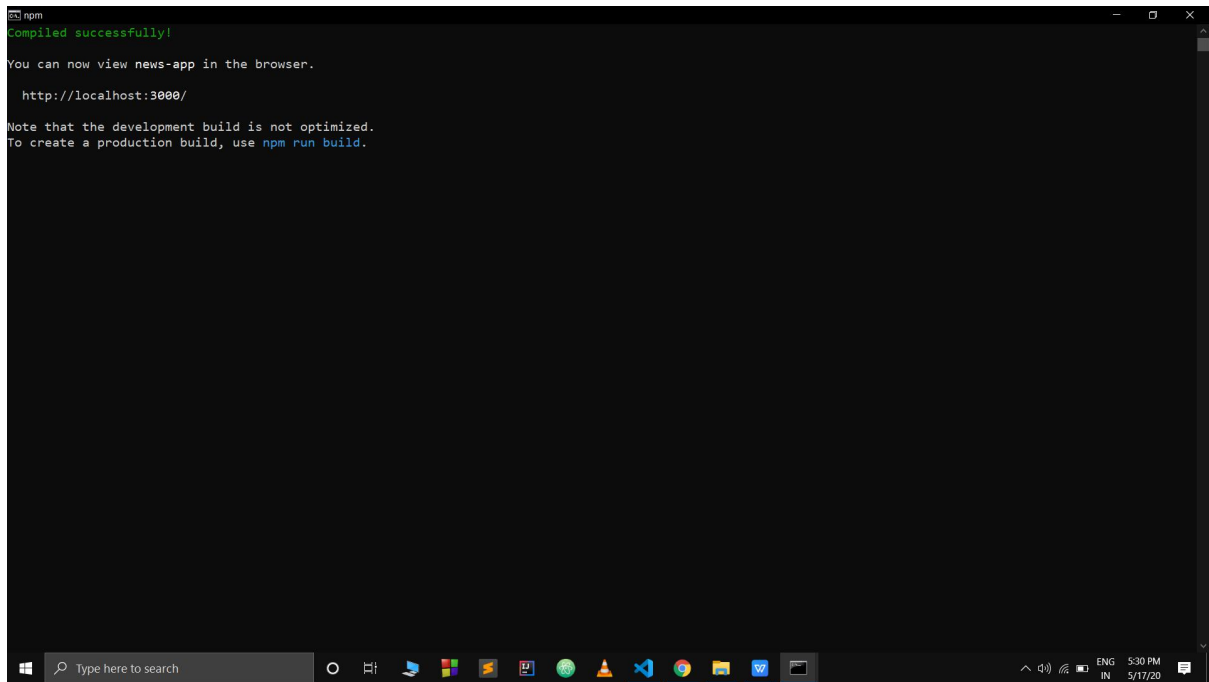
# **Non functional requirements:**

- Usability - User-friendliness and proper Graphical User Interface for the user.
- Supportability - It should support all types of systems and operating systems as per user requirements.
- Performance - Efficient and accurate performance regarding security, analysis according to the different resources and database connectivity that saves the article link and date and the information.
- Reliability - Reliable project for database storage and accurate stories not fake one.
- Maintainability - Low maintenance costs and negligible errors.
- Serviceability - Easy and punctual post deployment services in case of failures.

# Design/Block Diagram:



# Use Case Diagram:



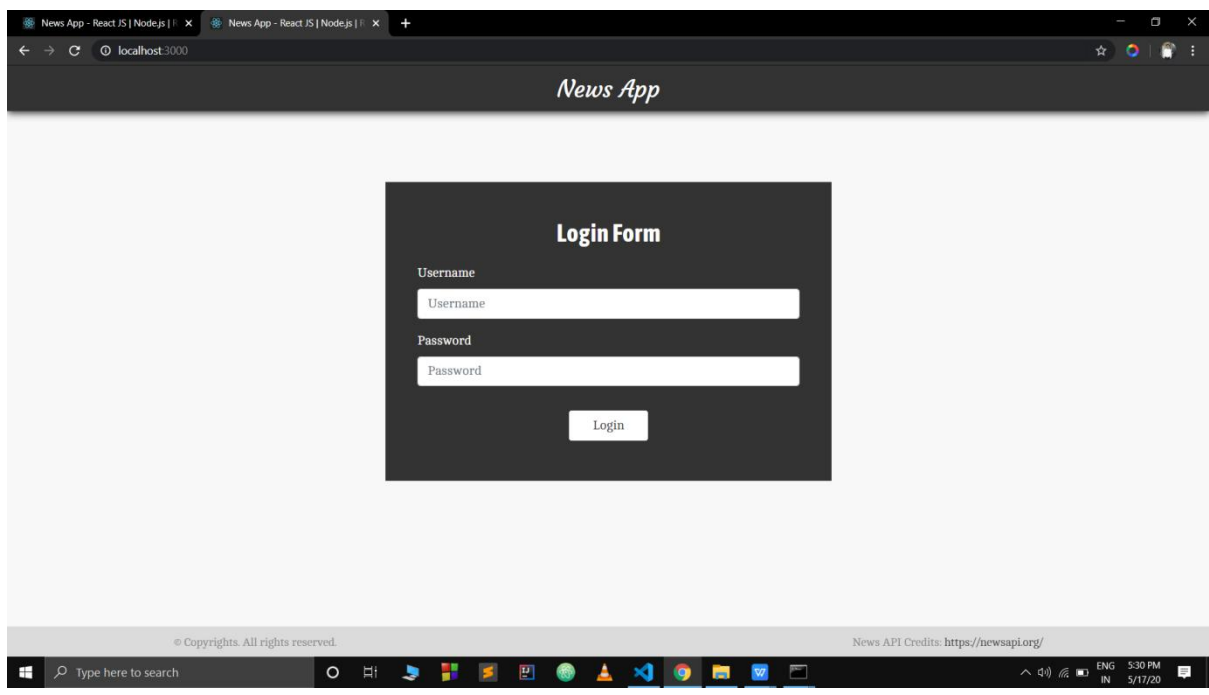
```
npm
Compiled successfully!

You can now view news-app in the browser.

  http://localhost:3000/

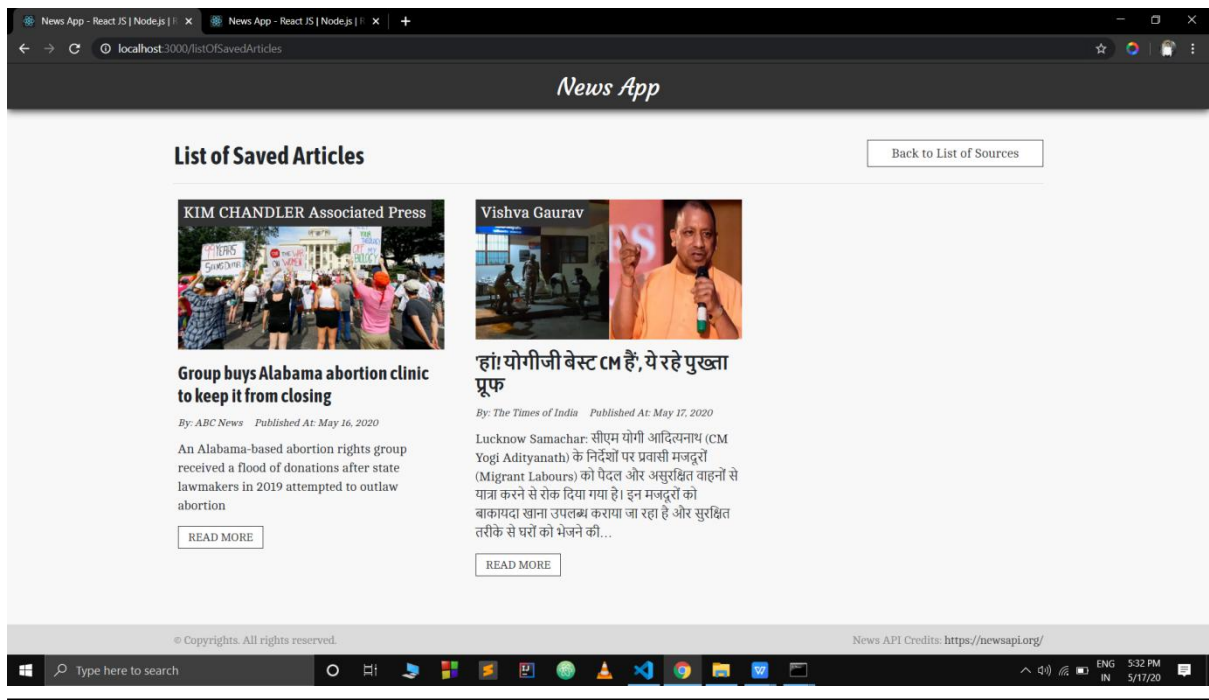
Note that the development build is not optimized.
To create a production build, use npm run build.
```

# Use Case Diagram:

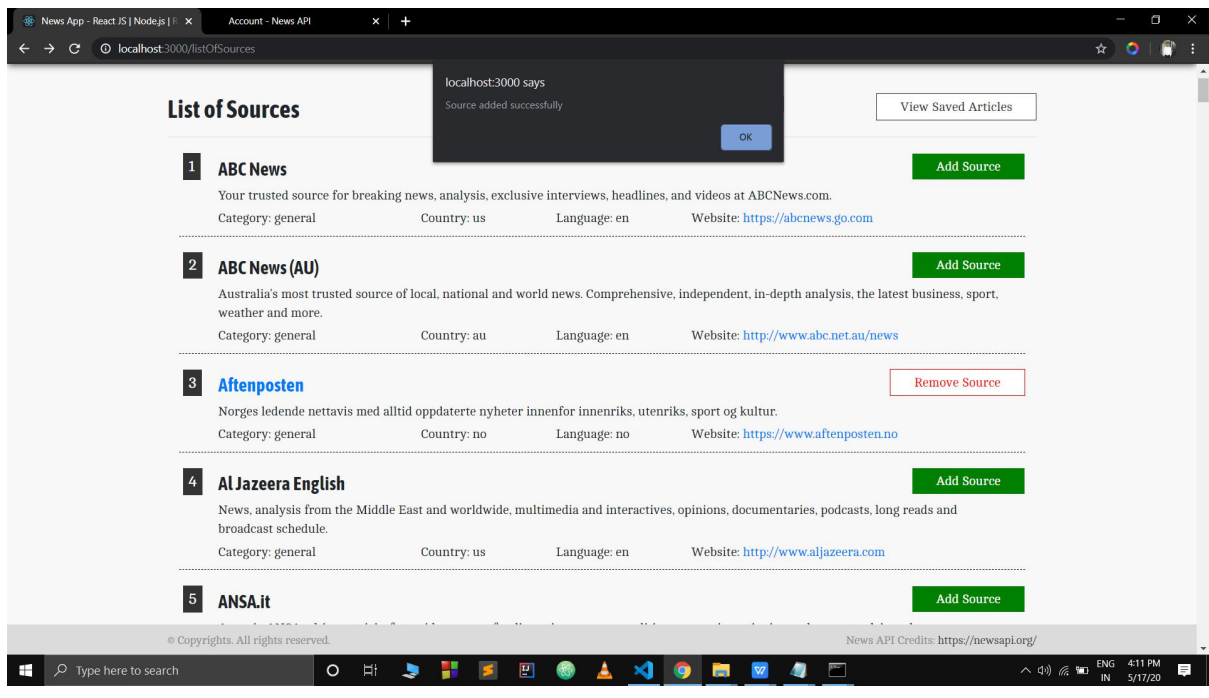


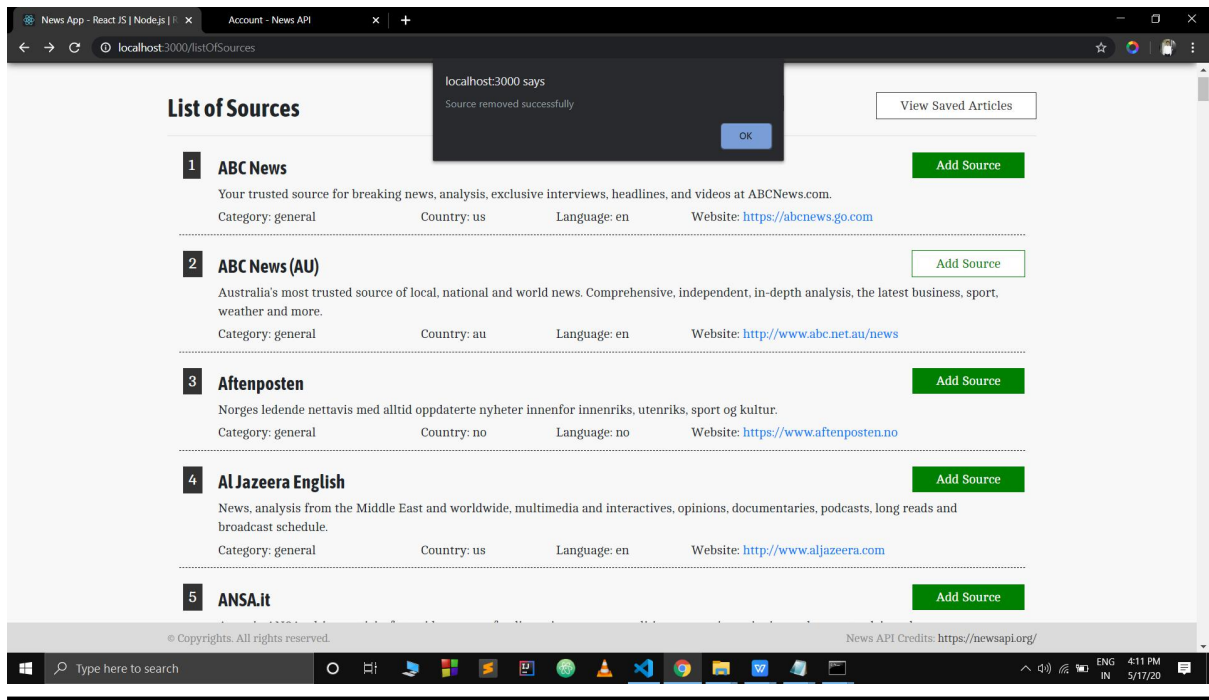


# Database:

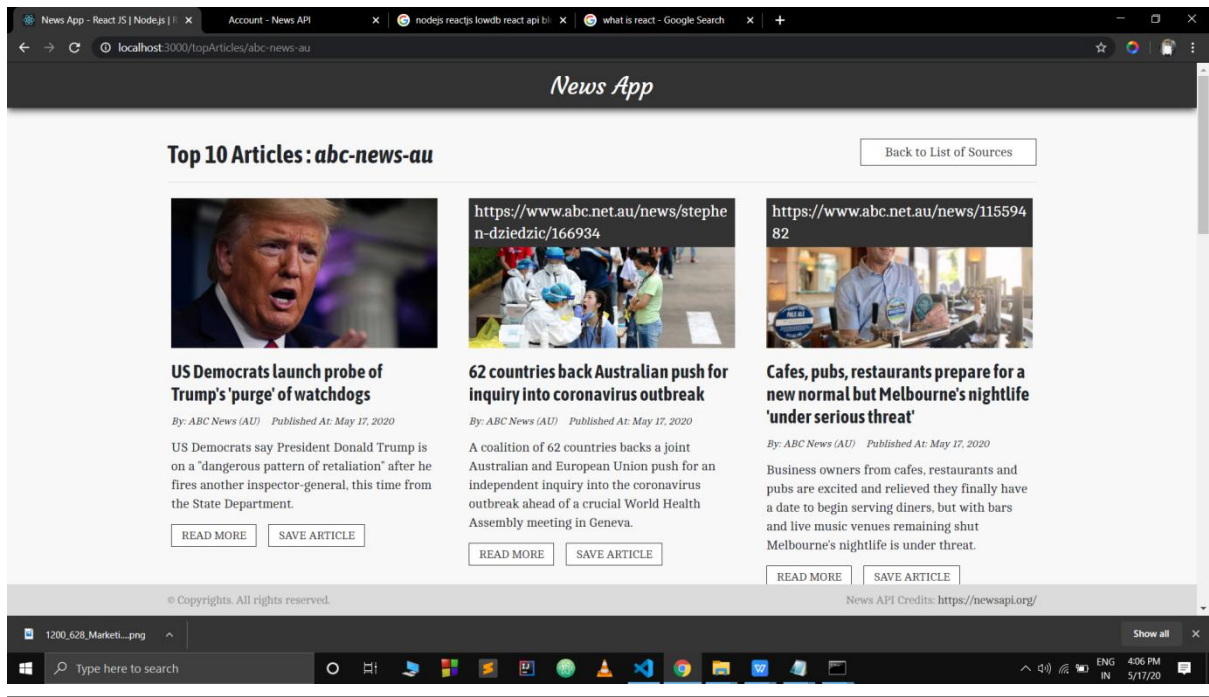


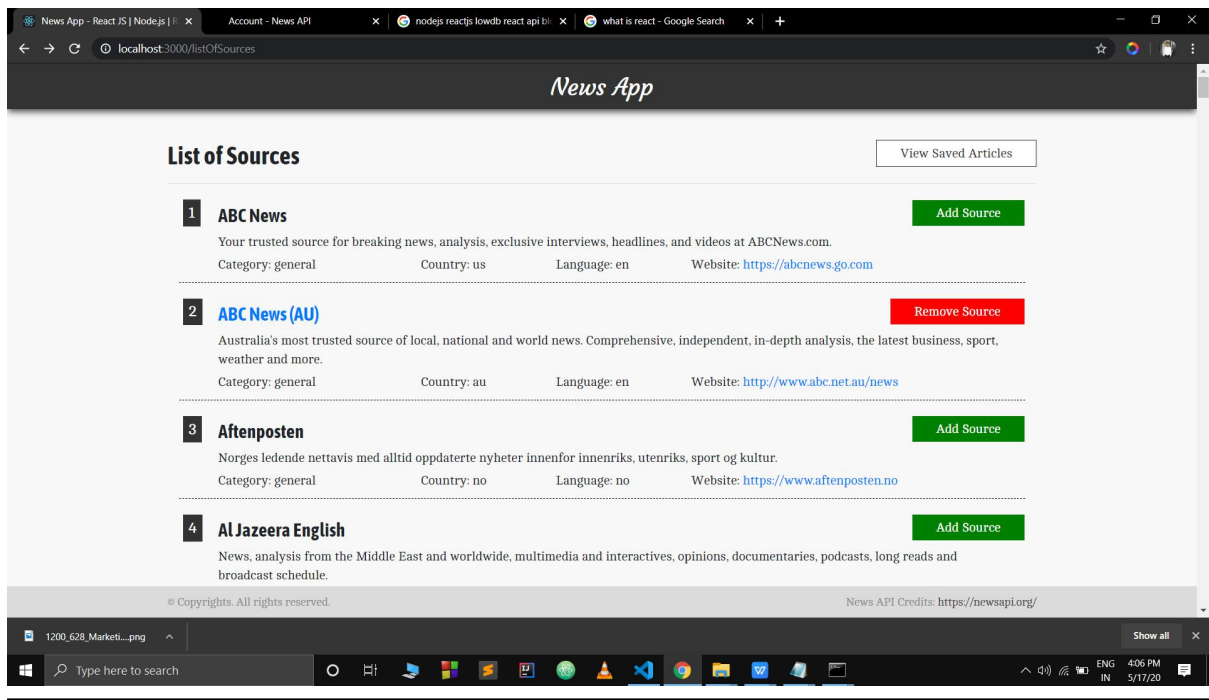
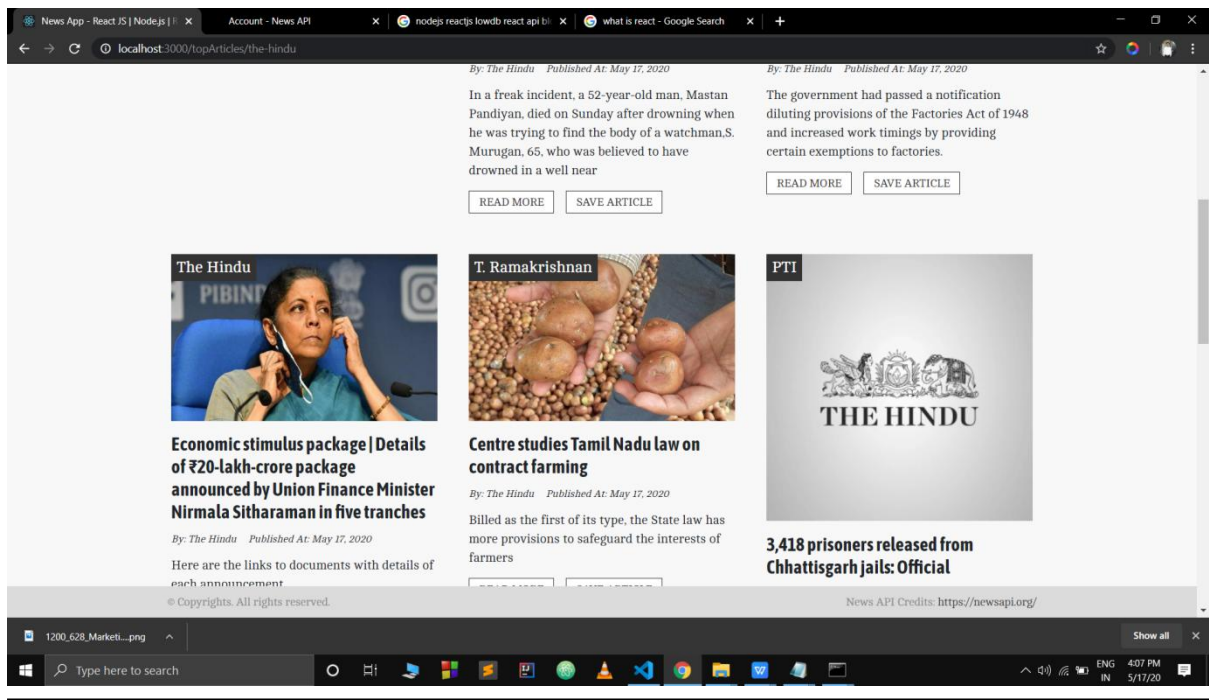
# Test cases:





# Test Cases:





## Results/Observations:

- Easy to maintain the database.
- It will reduce the work for user to learn current affairs as well as journalist of finding all the resources.
- User gets Top 10 news from resources.
- Easy analysis of all the information provides as we can check all the information from various resources as it is true or not .
- Easy to find individual news by just clicking read more.
- User can save the information from resources as well as he can share the link to anyone.

# **Conclusion:**

- “News APP” project developed for a Student has been designed to achieve efficiency and reduce the time taken to handle the activities.
- It is designed to replace the existing apps that gives all the news from single source.
- The implementation of the system can be for student for current affairs as well as journalist or their organization to help them to find all the global news at one place and save the time to find needed information.

# References:

- Coursera Full Stack Web Development Course
- <https://nodejs.org/en/> Node version 14.x
- Npm modules
- HTML
- CSS
- Bootstrap
- JavaScript
- React JS
- Node JS
- Rest API

## **Future Scope:**

- The system is interactable and flexible and changes can be made further to increase the efficiency for the user.
- More updates can be made on the project such as other category news, Quiz's bases on the information to interact user with Our APP
- This project sample will be helpful to other fields like college library where many colleges prefer olden newspapers, as well, if modified further or upgraded according to their needs.
- Time to time upgradation and post-deployment services will lead to the benefit of both user and developer.

## Report Documentation & Accounting Page

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<b>Address (Details):</b> Computer Department, K. K. Wagh Institute of Engineering Education & Research, Hirabai Haridas Vidyanagari, Amrutdham, Nashik Pin – 422 003				
<b>Report Title: News APP</b>				
<b>Author [with Address, phone, E-mail]:</b> <b>Address: Nashik</b>  <b>E-mail: 23pranavshimpi@gmail.com</b>		<b>Author Details (Year, Branch, Roll):</b>  <b>Year:</b> 2019– 2020  <b>Branch:</b> Computer Engineering  <b>Roll:</b> 13,31,38,62		
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In The "News APP", We have all the news around the World there are current affairs as well in the news. Those olden times are gone where people use to read newspaper. In this fast new century, people read news from various news apps, For this, we need to download various apps, as all news providers has their own sites and apps. So what if we get all the news in just one web app ? .. that's why we build an Application using React JS, Node.js, DataBase and REST API i.e News APP