# A Novel Approach for News Extraction using Web Scrapping

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***Abstract-*** **A Novel Approach for news extraction using web scrapping Smart parser is useful system which can be used to get the top stories and latest news from the top news sites. The system will display's top stories from the different news site's and regional news based on user's location from these sites. This system also provides live updating cricket score summary. User can select any site from option and read the top news and latest news from that site and even visit actual page also. System also provides the regional news on the basis of user location. User can register into the system and also make any site as default which is completely optional. Web scrapping is the technology which is used to get the content from those news sites. This system will restructures the data and displays to the user.**

## I. INTRODUCTION

Smart parser is useful system which can be used to get the top stories and latest news from the top news sites. The system will display's top stories from the different news site's and regional news based on user's location from these sites. This system also provides live updating cricket score summary. User can select any site from option and read the top news and latest news from that site and even visit actual page also. System also provides the regional news on the basis of user location. User can register into the system and also make any site as default which is completely optional. Web scrapping is the technology which is used to get the content from those news sites. This system will restructures the data and displays to the user.

Currently someone needs to read the news then they must visit the particular websites such as Times of India, India Today, Deccan Herald, and The Hindu. Since the website contains huge amount of data it takes some time to load. In advance to the websites are popped up with plenty of advertisements. That is the some of the issues with the current system. Even if someone wants to read news from two websites then they must visit two websites which is time consuming and consumes the internet. In addition if regional news is to found then they must search regional news which are again popped up by plenty of advertisements. So we propose a system which display's the news from multiple news paper in single application, also this system provides the news which is regional to the user.

## II. LITERATURE SURVEY

Web scrapping is the very useful technology in the field of getting the content from the different websites. The best features of the web scrapping technology are that can scrape the content which is required. Web scrapping is used by the many companies for business. One of the example of the web scrapping in the real estate listing gathering, It is a huge and growing web scrapping area. This is an area where the businesses are using web scraping to gather already listed. All the machine learning companies are using web scrapping to get the data. Email address gathering is another field of the application where once the emails are collected bulk emails are sent.

Website creators also uses the web scrapping where collecting data from the different social media websites, what is trending and what is in etc. Web scrapping is used in the one of the project in which it is used to scrape the content of particular category of book in the Amazon store. In another project web scrapping is used to scrape the contents from the Twitter on the basis of hash tag or by searching the keywords in the twitter. In the field of machine learning web scrapping is used in sentiment analysis field, where the data is scrapped from the websites.

Web scrapping is used in technologies such as Market research using web data in any of the industry. Even web scrapping technology is used in price comparing sites where it compares the price of item or room from different websites. In advance these applications use the web scraping to the scrape the content from the dependant websites. Various government and private watch dogs uses the web scrapping to monitor the malicious activities going on the internet.

Netucon Company based at Ahmadabad provides ultimate solutions to its customers and software development services with innovation and creativity. Netucon understands the requirements from the customer's and clients and produces the software. They developed a LinkedIn connection creator this LCC is useful for scrapping CEOs, creating B2C contacts, Lead Generators, Digital marketers, Blogger who post their blogs on LinkedIn and so on.

## III. PROPOSED IDEA

In the smart parser top news and latest news from the top news sites displayed using web scrapping technologies. The system scrapes the top news and latest news from the top news sites and displays it to the user. The home page of the application will be displaying the top news from different sites. A user menu will be given and from the menu user can select any of the site and read the news from that site and also in addition to the this user can register to the system and select any one of the news website as default and in case the top news and latest news from that sites are displayed on home page is completely optional. Web scrapping is the major technology used to develop the system. The special attraction of the system is that of regional news that is news based on user's location is also scraped and displayed in the application. For example consider the fig 1. , which contains all

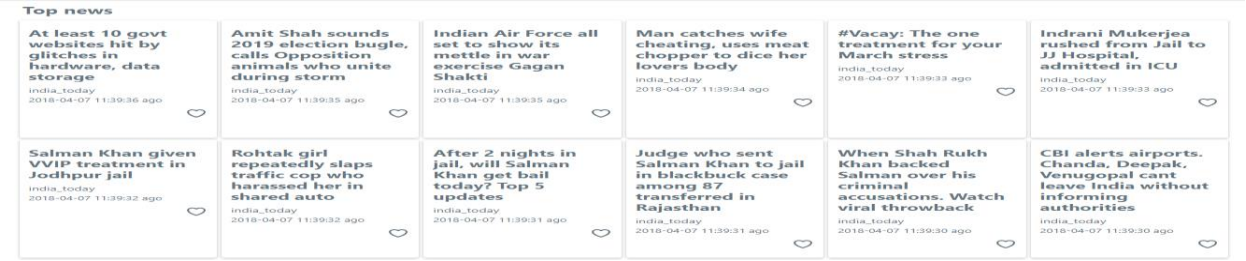
the information of the given website including top news. From this page the system takes only the top news by using web scraping technique.

## IV. IMPLEMENTATION

The implementation part of the system starts by taking the URL of the website. System scraps all the links of the top stories. After taking the link of each top stories system scraps the content of those links. System keeps monitoring in the change in the contents of the site. System can be implemented using a python library known as beautiful soup. Beautiful soup can also be used to implement the monitoring of changes. System scraps the contents from the site using beautiful soup library, html tags, css classes and ids. Finally the system restructures the data and displays it to the user. The summary of the scraped content is generated using natural language processing toolkit.

## V. EXPERIMENTAL RESULT:

System scraps the top news from the site and displays in a restructured format. The fig 2. Shows




the result of the proposed system. The system updates automatically for any changes in the sites. Also the summary of the each news is displayed.

## VI.CONCLUSIONS AND FUTURE WORK

The system is able to fetch only the required contents among the huge data. The study of the each website structures is a major part of this scraping technique.

The system can also be modified to scrap the content based on the type of the news. The system can also can be updated to display the news based on the users location. Trending news can be highlighted according to the number of views.

## VII.REFERENCES

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