

SVKM'S NMIM'S Nilkamal School of Mathematics, Applied Statistics & Analytics

Master of Science (Data Science)

Practical-7 Web Feed

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Writeup:-

- **Web Feed**
- **RSS and Atom**
- **Benefits of web feed**

- **Web Feed**

Users can receive regularly updated content using a web feed, which is a type of data format. Syndicate web feeds, sometimes referred to as news feeds or syndicated feeds, are made available for user subscription by content providers. To gather all of these feeds in one location for convenient access, aggregation is utilized. Pull technology is used by web feeds to deliver updated content to users. Web feeds are mostly available in two formats: Atom and RSS (Really Simple Syndication).

A feed reader, also called a news reader, functions as an aggregation application in a web feed system. By dragging a link from their browser to the aggregator, users can subscribe to feeds. After that, the aggregator contacts servers for content lists and routinely checks for updates. Web feeds usually include links or HTML content, frequently offering updates in summary form. Websites, weblogs, podcasters, and other media use them.

Web feeds allow for automatic information flow across websites without the need for human intervention because they function as machine-readable systems. This makes it possible for material to be distributed across several platforms effectively.

- **RSS and Atom**

RSS

Web feeds or web syndication are referred to as RSS, even though not all web feeds are in the RSS format. The family of web feeds known as RSS (Really Simple Syndication) is mostly used to publish content like blog entries, news headlines, audio video entries, etc. Usually, the RSS feed includes the entire text or a summary together with meta data such as the author's name and the publishing date. Users can view updates on linked websites that automatically syndicate material thanks to

RSS feeds. The published material can be seen in several programs thanks to the XML program. Users that subscribe to the RSS can view updates as well as aggregate texts from many sources.

The software used to see the RSS feed is RSS Reader or Aggregator that may be Web based, Mobile based or Desktop based one.

It is easy to subscribe the RSS feeds by entering into the URI of feeder or just by clicking the Web feed Icon in the Website that invites the subscription. RSS feeder regularly verify the updates and downloads the update text and gives an user interface to read the feeds. RSS feed reduces the job of the user for visiting all the interested websites, instead it gives the informations about the updating of all the subscribed websites.

Atom

Atom is a pair of standards, Atom syndication and Atom publishing protocol. The Atom Syndication format is in XML(Extensible Markup Language) while the Atom Publishing Protocol called Atom Pub or APP is in the HTTP protocol. Many blogs and Wiki uses the Web feeds in Atom format.

- **Benefits of web feed**

Timely Updates: Users may stay up to speed on the newest stories, articles, and updates from their favorite websites or sources with the help of web feeds, which provide users with content that is updated on a regular basis.

Convenience: Instead of having to visit each website separately, users may subscribe to web feeds and access all of their favorite material in one convenient place, such as a feed reader or aggregator.

Customization: Users can customize their web feeds to match their interests and preferences by selecting the material they wish to subscribe to. Users will receive updates that are pertinent and targeted thanks to this adjustment.

Efficiency: Web feeds save consumers time and effort by combining content from several sources into a single feed, which eliminates the need to search through multiple websites to get pertinent information.

Accessibility: Web feeds make it easy for people to stay informed while they're on the go by allowing them to access material on computers, smartphones, or tablets from any location with an internet connection.

Automation: Pull technology is used by web feeds to automatically retrieve and update content for consumers. Without the need for human interaction, this automation guarantees that users receive

updates on time.

Syndication: Content producers can increase visibility and reach by syndicating their work to a larger audience through web feeds. This helps customers and content creators alike by making important information easier to share.

Machine Readability: Because web feeds are machine readable, information can be automatically transferred between websites and systems without the need for human intervention. This facilitates smooth integration with various platforms and services and increases efficiency.

Write a program for Web Feed.

<https://www.carronmedia.com/create-an-rss-feed-with-php/>

Step 1

XAMPP Control Panel v3.3.0 [Compiled: Apr 6th 2021]

XAMPP Control Panel v3.3.0

Service	Module	PID(s)	Port(s)	Actions
<input type="checkbox"/>	Apache	4588 2104	80, 443	<input type="button" value="Stop"/> <input type="button" value="Admin"/> <input type="button" value="Config"/> <input type="button" value="Logs"/>
<input type="checkbox"/>	MySQL	14824	3307	<input type="button" value="Stop"/> <input type="button" value="Admin"/> <input type="button" value="Config"/> <input type="button" value="Logs"/>
<input type="checkbox"/>	FileZilla			<input type="button" value="Start"/> <input type="button" value="Admin"/> <input type="button" value="Config"/> <input type="button" value="Logs"/>
<input type="checkbox"/>	Mercury			<input type="button" value="Start"/> <input type="button" value="Admin"/> <input type="button" value="Config"/> <input type="button" value="Logs"/>
<input type="checkbox"/>	Tomcat			<input type="button" value="Start"/> <input type="button" value="Admin"/> <input type="button" value="Config"/> <input type="button" value="Logs"/>

Config Netstat Shell Explorer Services Help Quit

14:27:00 [Apache] Status change detected: running
14:27:05 [mysql] Problem detected!
14:27:05 [mysql] Port 3306 in use by "Unable to open process!"
14:27:05 [mysql] MySQL WILL NOT start without the configured ports free!
14:27:05 [mysql] You need to uninstall/disable/reconfigure the blocking application
14:27:05 [mysql] or reconfigure MySQL and the Control Panel to listen on a different port
14:27:05 [mysql] Attempting to start MySQL app...
14:27:05 [mysql] Status change detected: running

Step 2

> This PC > Windows (C:) > xampp > htdocs >

Name	Date modified	Type	Size
dashboard	27-03-2024 14:26	File folder	
demo	28-03-2024 08:31	File folder	
img	27-03-2024 14:26	File folder	
rss	28-03-2024 08:56	File folder	
webalizer	27-03-2024 14:26	File folder	
webfeed	30-03-2024 14:43	File folder	
xampp	27-03-2024 14:26	File folder	
applications	15-06-2022 21:37	Chrome HTML Do...	4 KB
bitnami	15-06-2022 21:37	Cascading Style S...	1 KB
favicon	16-07-2015 21:02	Icon	31 KB
index	16-07-2015 21:02	PHP Source File	1 KB
webfeed	30-03-2024 14:45	PHP Source File	1 KB

Step 3

fetch

```
<?php
$url="https://timesofindia.indiatimes.com/rssfeeds/913168846.cms";
$feedArr=json_decode(json_encode(simplexml_load_file($url)),true);
if(isset($feedArr['channel'])){
    if(isset($feedArr['channel']['item'])){
        echo "<div class='container'>";
        foreach($feedArr['channel']['item'] as $list){
            echo "<div class='item'>";
            echo "<a href='". $list['link'] ."'
target='_blank'><h2>". $list['title'] . "</h2></a>";
            echo "<div class='desc'>". $list['description'] . "</div>";
            echo "</div>";
        }
        echo "</div>";
    }else{
        echo "Invalid Feed Link";
    }
}else{
    echo "Invalid Feed";
}
?>

<style>
.container{
    width: 80%;
    margin: auto;
}
.item{
    width:300px;
    float:left;
    height:500px;
    padding:10px;
}
.desc img{
    width:100%;
}
</style>
```

create

```
<?php
$con=mysqli_connect('localhost','root','','mscds');
$res=mysqli_query($con,"select * from product order by date desc");
```

```

$link='http://google.com';
header('Content-Type: text/xml');
$feed="<?xml version='1.0' encoding='UTF-8' ?>";
$feed.='<rss xmlns:atom="http://www.w3.org/2005/Atom" version="2.0">';
$feed.='<channel>';
$feed.='<title>My Website Feed</title>';
$feed.='<link>'.$link.'</link>';
$feed.='<description>My Website Feed Description</description>';
if(mysqli_num_rows($res)>0){
    while($row=mysqli_fetch_assoc($res)){
        $feed.='<item>';
        $feed.='<title>'.$row['title'].'</title>';
        $feed.='<description>'.$row['description'].'</description>';
        $feed.='<link>'.$row['link'].'</link>';
        $feed.='<guid>'.$row['id'].'</guid>';
        $feed.='<pubDate>'.$row['date'].'</pubDate>';
        $feed.='</item>';
    }
}
$feed.='</channel>';
$feed.='</rss>';
echo $feed;
?>



```

product sql file






product.sql

This PC > Windows (C:) > xampp > htdocs > webfeed

Name	Date modified	Type	Size
 create	30-03-2024 14:46	PHP Source File	1 KB
 fetch	30-03-2024 14:52	PHP Source File	1 KB

Step 4

Index of /webfeed

Name	Last modified	Size	Description
 Parent Directory		-	
 create.php	2024-03-30 14:46	901	
 fetch.php	2024-03-30 14:52	776	

Apache/2.4.58 (Win64) OpenSSL/3.1.3 PHP/8.0.30 Server at localhost Port 80

Step 5

[NTA NITTT Feb 2024 results declared: Here's the direct link to download](#)



National Testing Agency released NITTT February 2024 result on March 30, 2024. Candidates can check results on [nittt.nta.ac.in](#). Follow steps to access and save result.

[Delhi School Results for Class 5, 8, 9 & 11 OUT at edudel.nic.in: Direct link to check](#)

Directorate of Education, Govt. of NCT of Delhi
Annual Result Academic Session 2023-24

Student ID *

Select

Class *

Select

Score (00/100/100) *

Visual Code

72KZ7297

Copy this code shown

Submit

Reset

Delhi DoE declared results for classes 5, 8, 9, 11 on March 30, 2024. Follow steps on [edudel.nic.in](#) to check, download, and print the results for future reference.

[No right to choose specific school for education: Delhi HC clarifies scope of Article 21A](#)



Delhi High Court clarifies that Article 21A ensures free and compulsory education till age fourteen, not admission to a specific school. Justice C Hari Shankar dismisses plea for Class II admission, noting absence of application for the academic year. Emphasises each year as a new session; directs Directorate of Education to facilitate admission elsewhere.

[Can't teach religion, jingoism for Indian Knowledge Systems](#)



Officials from the state's NEP 2020 steering committee reported concerning trends in higher education institutes, where subjects such as "religion, jingoism, and blind hero-worship" were taught using Indian Knowledge Systems (IKS). They intend to revise NEP implementation by forming a subcommittee to develop guidelines for IKS subjects. Changes include altering subject selection processes to increase flexibility.