

**SVKM'S NMIM'S Nilkamal School of Mathematics, Applied
Statistics & Analytics
Master of Science (Data Science)
Practical-7 Web Feed**

Writeup:-

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

Purva Burundkar – A018

Web feed:

In cloud computing, web feeds, such as RSS or Atom feeds, are hosted and managed within cloud-based environments for efficient distribution and accessibility. Content creators produce these feeds to syndicate their content, incorporating metadata and summaries for dissemination. These feeds are commonly stored in cloud storage services like Amazon S3, Google Cloud Storage, or Azure Blob Storage, ensuring scalability, reliability, and security. Additionally, specialized feed hosting services operate in the cloud, offering users the ability to create, customize, and distribute feeds seamlessly. Content delivery networks (CDNs) are often employed to optimize feed delivery globally, reducing latency and enhancing performance by caching feeds on distributed servers. Subscribers access these feeds via various feed readers or aggregators, which periodically fetch and parse the content from the cloud, presenting it to users in a readable format. Furthermore, cloud-based feed services can provide real-time updates to subscribers through technologies like WebSockets, enabling instant notifications of new content. Integration with other cloud services further enhances the capabilities of cloud-hosted feeds, facilitating automation and seamless distribution across multiple platforms. Overall, hosting web feeds in the cloud offers unparalleled scalability, reliability, and integration possibilities, making it the preferred choice for publishers and subscribers in the digital ecosystem.

RSS (Really Simple Syndication) and Atom

RSS (Really Simple Syndication) and Atom are both web feed formats used to syndicate frequently updated content such as blog posts, news headlines, audio, and video. While they serve similar purposes, there are differences between the two:

RSS (Rich Site Summary or Really Simple Syndication):

RSS is an XML-based format originally developed by Netscape in the late 1990s.

It has several versions, with RSS 2.0 being the most widely used.

RSS uses a simple and standardized structure, making it easy to generate and parse.

It supports basic metadata such as title, description, publication date, and author.

RSS feeds are typically denoted by ".rss" or ".xml" file extensions.

Atom:

Atom is a more recent web feed format standardized by the Internet Engineering Task Force (IETF) in 2005.

It was designed to address some of the limitations of RSS and provide more features and flexibility.

Atom is also XML-based but offers a stricter and more extensible structure compared to RSS.

It includes features like support for content types other than text, better support for internationalization, and a more robust mechanism for linking related content.

Atom feeds are denoted by ".atom" file extensions.

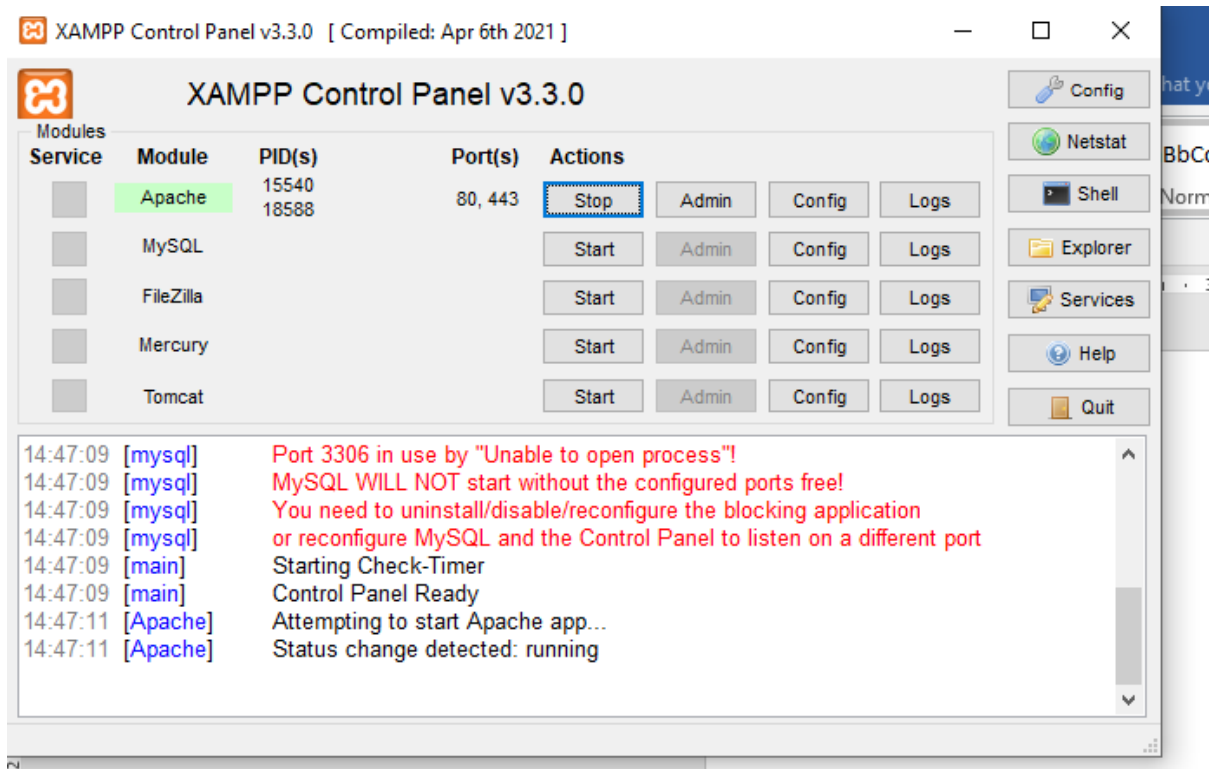
Both RSS and Atom feeds can be subscribed to by users using feed readers or aggregators, allowing them to receive updates from their favorite websites or content sources in one centralized location.

Despite the differences, many feed readers support both formats, and publishers often provide feeds in both RSS and Atom to cater to different preferences.

Benefits of web feed

Web feeds, such as RSS and Atom, offer a multitude of benefits for both content creators and consumers alike. Publishers can easily syndicate their content across various platforms, expanding their reach and visibility. By subscribing to these feeds, users receive instant updates whenever new content is published, ensuring they stay informed in real-time without the need for manual checking. The convenience of consolidating multiple sources into a single feed reader or aggregator simplifies content consumption, saving users time and effort. Additionally, the ability to customize and filter content based on personal preferences enhances the user experience by delivering only relevant updates. Moreover, web feeds support offline access, enabling users to access content even when offline, fostering continuous engagement. Ultimately, web feeds streamline content distribution and consumption, making them an indispensable tool in the digital landscape.

1)Open xampp panel



Verify using localhost



Welcome to XAMPP for Windows 8.0.30

You have successfully installed XAMPP on this system! Now you can start using Apache, MariaDB, PHP and other components. You can find more info in the FAQs section or check the HOW-TO Guides for getting started with PHP applications.

XAMPP is meant only for development purposes. It has certain configuration settings that make it easy to develop locally but that are insecure if you want to have your installation accessible to others.

Start the XAMPP Control Panel to check the server status.

Community

XAMPP has been around for more than 10 years – there is a huge community behind it. You can get involved by joining our Forums, liking us on Facebook, or following our exploits on Twitter.

Login in mysql cmd

```
MySQL 8.0 Command Line Client - Unicode
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 15
Server version: 8.0.26 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.
```

Create a database

```
mysql> create database ds;
Query OK, 1 row affected (0.02 sec)

mysql> use database ds;
ERROR 1049 (42000): Unknown database 'database'
mysql> use ds;
Database changed
```

Create a table and add values

```
mysql> CREATE TABLE `product` ( `id` int(11) NOT NULL, `title` varchar(250) NOT NULL, `description` text NOT NULL, `image` varchar(500) NOT NULL, `link` varchar(500) NOT NULL, `date` datetime NOT NULL) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
Query OK, 0 rows affected, 1 warning (0.12 sec)

mysql> INSERT INTO `product` (`id`,`title`,`description`,`image`,`link`,`date`) VALUES(1, 'Lorem ipsum dolor sit amet, consectetur adipiscing elit.', 'Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vivamus varius ipsum ante eu gravida odio tempus et, lacinia rutrum lectus ac scelerisque tristique. Aliquam porttitor suscipit aliquam. Phasellus tempus porta commodo. Nulla id blandit est, vel ultricies purus. Nullam faucibus ac elit ac scelerisque. Suspendisse nec ultrices quam. Duis laoreet tempus', 'https://www.lotus-qa.com/wp-content/uploads/2020/02/testing.jpg', 'link1', '2021-07-17 18:06:19'),(2, 'Aliquam non tristique in, gravida vitae purus. Fusce id nulla augue. Donec', 'Phasellus lore a enim, aliquam non tristique in, gravida vitae purus. Fusce id nulla augue. Donec efficitur est nisi, nec consectetur odio vestibulum et. Cras eget tortor pulvinar, cursus sem in, rutrum nisi. Morbi in purus turpis. Vestibulum laoreet f tellis sapien, scelerisque egestas lacus finibus sed, tiam euismod nibb tellus, a tristique mi vehicula non.', 'https://www.thesddevocate.org/wp-content/uploads/2016/02/board-351516-900-720.jpg', 'link2', '2021-07-18 11:06:19'),(3, 'Vivamus pretium neque odio', 'Vivamus pretium neque odio, finibus vehicula fells congue nec. Duis ligula elit, congue sed tellus sit amet, congue vulputate purus. Suspendisse sodales urna nec ipsum luctus accumsan. Praesent efficitur, justo sed tristique consectetur, neque orci laculis sem, ac vestibulum est sapien sed ante. Mauris vel augue mattis, mattis fells ut, fermentum justo. Nulla ultrices lobortis diam sit amet mollis. Cras non dignissim urn', 'http://www.flexibleproduction.com/wp-content/uploads/2017/06/test-intelligence-social.jpg', 'link3', '2021-07-19 11:07:36'),(4, 'tiam in faucibus ex. Donec ut mattis ex, at cursus diam. Phasellus lene idiet auctor accumsan. Duis hendrerit, orci vel pharetra varius, nulla lectus ultricies ex, nec semper lacus magna ac ex. Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Donec ac pharetra ex, eget lacinia ex. Sed varius aliquet magna nec gravida. Vivamus dui mauris, luctus quis diam sed, blandit condimentum nibb. Nam at mi velit. In sagittis imperdiet arcu et vehicula. Phasellus mi arcu, tincidunt ut elit vitae, semper fringilla orci. Praesent at nulla quis turpis aliquam efficitur. In sed turpis quis ipsum tincidunt porta in vel nunc.', 'https://www.railwaysignalling.eu/wp-content/uploads/2015/05/testing.jpg', 'link4', '2021-07-20 19:07:36');
Query OK, 4 rows affected (0.03 sec)
Records: 4  Duplicates: 0  Warnings: 0

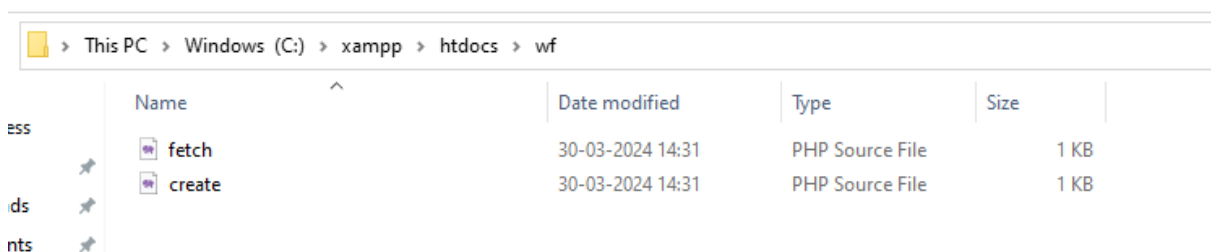
mysql> ALTER TABLE `product` ADD PRIMARY KEY (`id`);
Query OK, 0 rows affected (0.11 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> ALTER TABLE `product` MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=5;COMMIT;
Query OK, 4 rows affected, 1 warning (0.10 sec)
Records: 4  Duplicates: 0  Warnings: 1

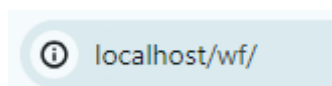
Query OK, 0 rows affected (0.00 sec)

mysql>
```

Paste the files in following folder



Load wf





Replace the url with whatever you want

```
<?php
$url="https://timesofindia.indiatimes.com/rssfeeds/4719148.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>
```

Click on fetch and check if the link works

Index of /wf

Name	Last modified	Size	Description
 Parent Directory		-	
 create.php	2024-03-30 14:31	902	
 fetch.php	2024-03-30 14:50	774	

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

'We are much better than that...': Virat Kohli to RCB teammates



Virat Kohli was named Royal Challengers Bengaluru 'Player of the Match' for his 83 not out against Kolkata Knight Riders in their IPL match on Friday. Despite their defeat, Kohli was presented with a gift hamper by teammate Glenn Maxwell. KKR secured their victory with seven wickets and 19 balls to spare.

Watch: RCB dressing room chat after losing to KKR



RCB lost IPL 2024 match against despite Virat Kohli's 83. A day after losing the match, RCB posted a video of their coach Andy Flower discussing and reviewing the performances of the players in the match. KKR have two wins from two matches, and RCB one victory from three games.

Kohli & Gambhir's hug: 'Sometimes you cross the line but...'



Cricket fans witnessed an unexpected on-field reunion between Virat Kohli and Gautam Gambhir during the Indian Premier League match between Royal Challengers Bengaluru and Kolkata Knight Riders. The former adversaries, who had a tumultuous history, were seen shaking hands and sharing smiles during a strategic timeout at M Chinnaswamy Stadium.

'Impossible for RCB to win the IPL...'



Kolkata Knight Riders won the Indian Premier League 2024 match by seven wickets over Royal Challengers Bengaluru, led by Venkatesh Iyer and Sunil Narine. The team became the first to win away from home in the IPL season. However, concerns about RCB's bowling performance were raised, with former cricketers including Michael Vaughan expressing skepticism.

IPL 2024: TOI's team of the week



TOI's IPL XI includes standout performers like Rachin Ravindra, Sanju Samson, Andre Russell, Virat Kohli, and other talented players showcasing their skills in the ongoing IPL 2024 tournament.

Live Score: Bangladesh vs Sri Lanka, 2nd Test Day 1



Watch: Spin bowling coach lauds KKR after victory against RCB



KKR's away win celebrated by Carl Crowe. Anukul Roy, Harshit Rana, Mitchell Starc, Sunil Narine, Andre Russell, Varun Chakravarthy and Venkatesh Iyer's efforts.

'Jhagda Hua?': Delhi Police's hilarious meme after Kohli-Gambhir hug



Former rivals Virat Kohli and Gautam Gambhir surprised fans with a heartwarming reconciliation at an IPL match. The duo's past conflicts were overshadowed by their display