

# Bazaar – php example code – part 13 – RSS syndication script

Article focus on a way how to generate RSS XML code for syndication news about currently published articles. User can subscribe for obtaining news about currently posted articles into a RSS readers.

## RSS short introduction

RSS (RDF Site Summary or Really Simple Syndication)<sup>[2]</sup> is a web feed<sup>[3]</sup> that allows users and applications to access updates to websites in a standardized, computer-readable format. (wikipedia, 26.12.2020)

By creating RSS feed, we enable to other people gain info about all of our new post. Our goal is to populate newsfeed from the bazaar\_item database table to inform about new items available for sell.

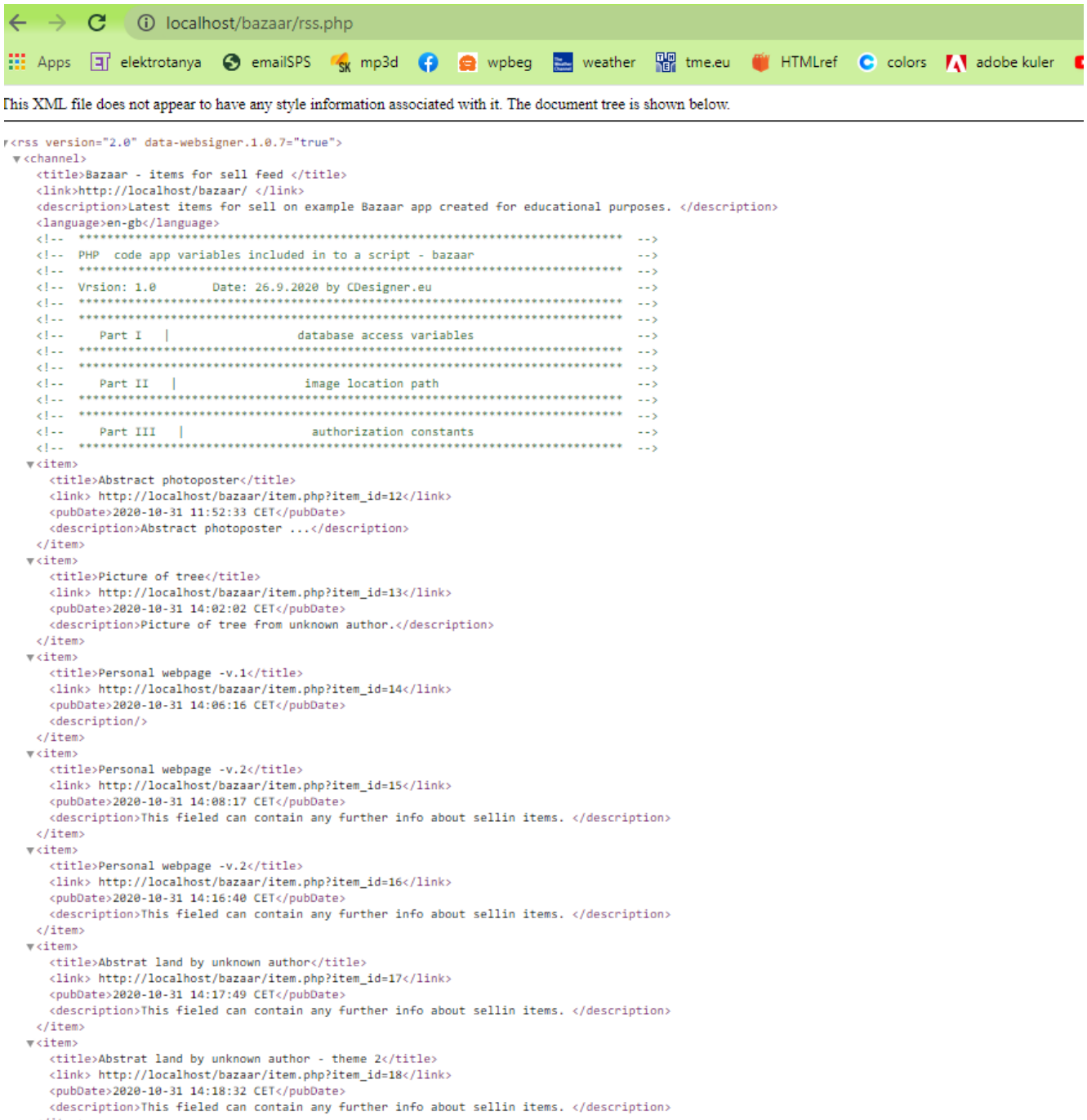
To view an RSS feed, users need a RSS newsreader. Some of them are integrated in most of today browsers.

## Closer look at RSS

RSS uses as a HTML markup language that uses tags and

attributes for content description. Base of RSS is then XML used to describe web content for syndication.

Next picture show output of generated RSS code for advertising new items on our Bazaar app.



```
r<rss version="2.0" data-websigner.1.0.7="true">
  <channel>
    <title>Bazaar - items for sell feed </title>
    <link>http://localhost/bazaar/ </link>
    <description>Latest items for sell on example Bazaar app created for educational purposes. </description>
    <language>en-gb</language>
    <!-- ***** -->
    <!-- PHP code app variables included in to a script - bazaar -->
    <!-- ***** -->
    <!-- Vrsion: 1.0      Date: 26.9.2020 by CDesigner.eu -->
    <!-- ***** -->
    <!-- ***** -->
    <!-- Part I |          database access variables -->
    <!-- ***** -->
    <!-- ***** -->
    <!-- Part II |         image location path -->
    <!-- ***** -->
    <!-- ***** -->
    <!-- Part III |        authorization constants -->
    <!-- ***** -->
  </channel>
  <item>
    <title>Abstract photoposter</title>
    <link> http://localhost/bazaar/item.php?item_id=12</link>
    <pubDate>2020-10-31 11:52:33 CET</pubDate>
    <description>Abstract photoposter ...</description>
  </item>
  <item>
    <title>Picture of tree</title>
    <link> http://localhost/bazaar/item.php?item_id=13</link>
    <pubDate>2020-10-31 14:02:02 CET</pubDate>
    <description>Picture of tree from unknown author.</description>
  </item>
  <item>
    <title>Personal webpage -v.1</title>
    <link> http://localhost/bazaar/item.php?item_id=14</link>
    <pubDate>2020-10-31 14:06:16 CET</pubDate>
    <description/>
  </item>
  <item>
    <title>Personal webpage -v.2</title>
    <link> http://localhost/bazaar/item.php?item_id=15</link>
    <pubDate>2020-10-31 14:08:17 CET</pubDate>
    <description>This field can contain any further info about sellin items. </description>
  </item>
  <item>
    <title>Personal webpage -v.2</title>
    <link> http://localhost/bazaar/item.php?item_id=16</link>
    <pubDate>2020-10-31 14:16:40 CET</pubDate>
    <description>This field can contain any further info about sellin items. </description>
  </item>
  <item>
    <title>Abstrat land by unknown author</title>
    <link> http://localhost/bazaar/item.php?item_id=17</link>
    <pubDate>2020-10-31 14:17:49 CET</pubDate>
    <description>This field can contain any further info about sellin items. </description>
  </item>
  <item>
    <title>Abstrat land by unknown author - theme 2</title>
    <link> http://localhost/bazaar/item.php?item_id=18</link>
    <pubDate>2020-10-31 14:18:32 CET</pubDate>
    <description>This field can contain any further info about sellin items. </description>
  </item>
</rss>
```

## Required tags for the channel

- **title**. The title of the channel. Should contains the name.
- **link**. URL of the website that provides this channel.
- **description**. Summary of what the provider is.
- one **item** tag at least, for the content.

```
1      <rss version="2.0">
2          <channel>
3              <title>XUL</title>
4      <link>https://www.link.domain</link>
5          <description></description>
6              <item>
7                  ...
8              </item>
9          </channel>
10     </rss>
```

## Script rss.php for RSS markup generation

Next code provide all functionality for obtaining data about items for sell and generate RSS XML syndication feed for subscribed users.

```
<?php header(,Content-Type: text/xml'); ?>
<?php echo ,<?xml version="1.0" encoding="utf-8"?>,; ?>
<rss version="2.0">
<channel>
<title>Bazaar – items for sell feed </title>
<link>http://localhost/bazaar/ </link>
<description>Latest items for sell on example Bazaar app creat
ed for educational purposes. </description>
<language>en-gb</language>
<?php // main part read info about items for sell and generate
feed posts
```

```

session_start(); // start the session – must be added on all p
ages for session variable accessing
// solution using SESSIONS with COOKIES for longer (30days) lo
gin persistency
if(!isset($_SESSION['users_id'])) { // if session is no more a
ctive
    if(isset($_COOKIE['users_id']) && isset($_COOKIE['username
'])) { // but cookie is set then renew session variables along
them
        $_SESSION['users_id'] = $_COOKIE['users_id'];
        $_SESSION['username'] = $_COOKIE['username'];
        $_SESSION['user_role'] = $_COOKIE['user_role']; // add
ed for role
    }
}
/**
 * Main part of generator newsfeed
 */
// connect to the database
require_once('appvars.php'); // including variables for data
base
$dbc = mysqli_connect(DB_HOST, DB_USER, DB_PW, DB_NAME);
    // Check connection
    if($dbc === false){
        die(„ERROR: Could not connect to database. “ . mys
qli_connect_error());
    }
    // Obtain all listed items for sell
    $sql = „SELECT * FROM bazaar_item“ ;
    //go through the array of items for sell and format it as RS
S

        if($output = mysqli_query($dbc, $sql)){
            if(mysqli_num_rows($output) > 0){ // if any r
ecord obtained from SELECT query

                while($row = mysqli_fetch_array($output)){
                    //next rows outputed in while loop
                    // $first_name_buyer = $row['first_
name'];

                    echo „<item>,;

```

```

        echo    ,<title>'.$row[,name_of_item'].'
</title>;
        echo    ,<link> http://localhost/bazaar/
item.php?item_id=,.$row[,item_id,].'</link>;
        echo    ,<pubDate>,.$row[,item_add_date'
].' ,.date(,T').'</pubDate>;
        echo    ,<description>,substr($row[,ite
m_description'], 0, 64).'</description>;

        echo    ,</item>;

    }

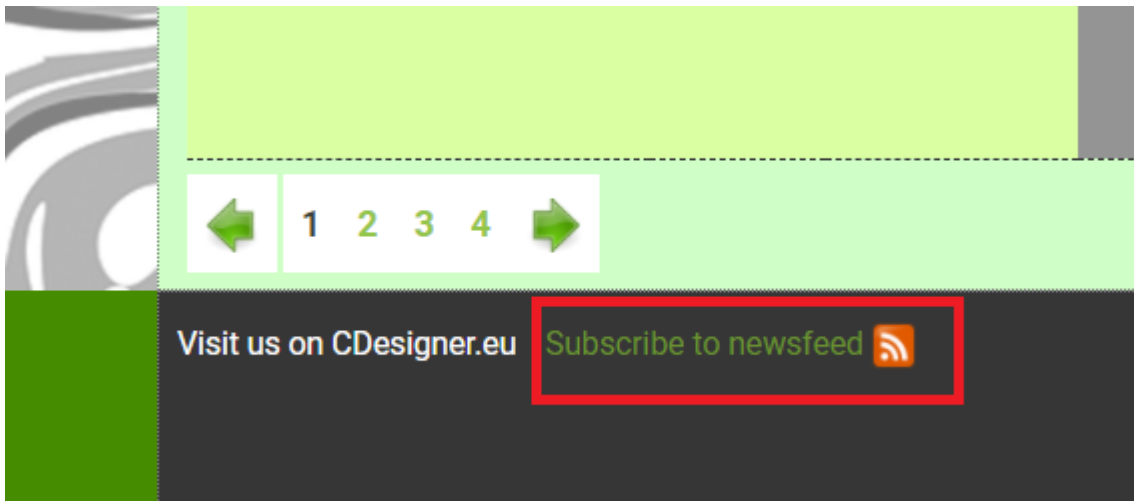
    // Free result set
    mysqli_free_result($output);
} else {
    echo „No info about buyer obtained.“; // i
f no records in table
    $cart_was_submitted = false; // items cann
not be bought by technical issue
}
} else {
    echo „ERROR: Could not able to execute $sql. “
. mysqli_error($dbc); // if database query problem
    $cart_was_submitted = false; // items cann not
be bought by technical issue
};
?>
</channel>
</rss>

```

## Integration RSS generator in to a page

Our RSS generator is available for syndication from bottom part (footer) of the page via link with syndication image as

it depicts next screen.



RSS subscription available from page footer

Full code of footer.php script included in our pages is:

```
<!--
*****
*** ->
<!--           PHP footer of bazaar   for
including                                           ->
<!--
*****
*** ->
<!-- Vrsion: 1.0           Date: 22. - 22.11.2020 by CDesigner.eu
                                ->
<!--
*****
*** ->
<?php
// for further rework of the code
function generate_footer($width) {
    if($width==580) {
        echo ,<div class="footer" >';
        echo ,<div class="footer" id="footer_container_580">';
                                echo ,<a           class="navbrar-
brand" href="https://cdesigner.eu"> Visit us on CDesigner.eu <
/a>';
```

```

        echo      ,<a      class="navbar-
brand" href="rss.php,,> Subscribe to newsfeed  </a>;
    echo ,</div>';
    echo ,</div>';
}
if($width==1060) {
    echo ,<div class="footer" >';
    echo ,<div class="footer" id="footer_container_1060">';
        echo      ,<a      class="navbar-
brand" href="https://cdesigner.eu"> Visit us on CDesigner.eu <
/a>';
        echo      ,<a      class="navbar-
brand" href="rss.php"> Subscribe to newsfeed  </a>';
    echo ,</div>';
    echo ,</div>';
}
}
?>
<!-- older solution without daptive width
<div class="footer" >
    <div class="footer" id="footer_container_1060">
        <a      class="navbar-
brand" href="https://cdesigner.eu"> Visit us on CDesigner.eu <
/a>
        <a      class="navbar-
brand" href="rss.php"> Subscribe to newsfeed  </a>
    </div>
</div>
-->

```

In our pages is this footer script invoked way as can be visible on next code snippet. After including with requireonce() is invoked function for generating footer with expected with.

... code omitted from index.php ...

```
<?php // footer include code
    require_once('footer.php'); // including footer
    generate_footer(1060); // function from footer.php
for seting width, you can use 580 and 1060px width
?>
```

```
</body>
</html>
```

## Conclusion

With RSS syndication is opened new way for our users to subscribe for getting all new info about products for sell. Short example provide shor introduction to RSS generation and how to implement RSS generator into a code of our page.

Full Bazaar app code for further reference can be obtained from [github](#) here.