Index.php

```php
<?php
//NAAM - STUDENTEN NUMMER

//Date: 31-10-2018
function getWeatherTypeById($weatherNumber) {
    switch ($weatherNumber) {
        case "20":case "26":case "27":case "28":case "29":
            $weatherClass = "cloudy";
            break;
        case "32":case "36":
            $weatherClass = "sunny";
            break;
        case "5":case "6":case "7":case "10":case "11":case "12":case "35":case "40":
            $weatherClass = "rainy";
            break;
        case "0":case "1":case "2":case "3":case "4":case "37":case "38":case "39":
            $weatherClass = "stormy";
            break;
        case "13":case "16":case "17":case "41":
            $weatherClass = "snowy";
            break;
        default:
            $weatherClass = "sunny"; //default is sunny
            break;
    }return $weatherClass;
}

//Include the weather function
include_once('getWeatherTempEmmen.php');
$weatherInEmmenString = getWeatherStringEmmen();
//now put this into an array for easy access.
$weatherInEmmen = explode(" ", $weatherInEmmenString);
//set the CSS class that controls the website theme: cloudy, sunny, rainy, stormy, snowy
$cssWeatherClass = getWeatherTypeById($weatherInEmmen[2]);
?>

<head>
    <meta charset="UTF-8" />
    <title>Page title</title>
    <link rel="stylesheet" type="text/css" href="style.css" />
</head>
<body class="<?php echo $cssWeatherClass; ?>">

<form action="storeQuestion.php" method="POST">
    <div>Name</div><input class="formControl" type="text" name="name" id="name" placeholder="Your name..." >
    <div>Email</div><input class="formControl" type="email" name="email" id="email" placeholder="Your email..." >
    <div>Phone</div><input class="formControl" type="tel" name="phone" id="phone" placeholder="Your telephone number..." >
    <div>Gender</div>
    Male <input type="radio" name="gender" id="genderMale" value="Male" >
    Female <input type="radio" name="gender" id="genderFemale" value="Female" >
    Other <input type="radio" name="gender" id="genderOther" value="Other" checked="checked">
    <div>Question</div><textarea name="question" cols="4" rows="8" class="formControl" placeholder="Your question"></textarea>
    <div>Send confirmation mail</div><input type="checkbox" name='agreeArray[]' id='sendConf' value="Wants confirmation mail," checked="checked">
    <div>Send me a news letter</div><input type="checkbox" name='agreeArray[]' id='sendLetter' value="Wants a News letter," >
    <div>Send me advertisements</div><input type="checkbox" name='agreeArray[]' id='sendAds' value="Wants advertisements in mail.">
    <div> </div><input type='submit' name='submit' id='submit' value="Submit">
</form>
```

rssFeed.php

```php
<?php
//NAAM - STUDENTEN NUMMER
//Date: 31-10-2018

$rss = new DOMDocument();
$rss->load('https://blog.arduino.cc/feed');
$feed = array();
foreach ($rss->getElementsByTagName('item') as $node) {
    $item = array(
        'title' => $node->getElementsByTagName('title')->item(0)->nodeValue,
        'desc'  => $node->getElementsByTagName('description')->item(0)->nodeValue,
        'link'  => $node->getElementsByTagName('link')->item(0)->nodeValue,
        'date'  => $node->getElementsByTagName('pubDate')->item(0)->nodeValue,
    );
    array_push($feed, $item);
}
$limit = 5;
for ($x = 0; $x < $limit; $x++) {
    $title = str_replace(' & ', ' &amp; ', $feed[$x]['title']);
    $link = $feed[$x]['link'];
    $description = $feed[$x]['desc'];
    $date = date('l M d, Y', strtotime($feed[$x]['date']));
    echo '<div class="feedElement">';
    echo '<p><strong><a href="'. $link .'" title=' . $title . '">' . $title . '</a></strong><br />';
    echo '<small><em>Posted on ' . $date . '</em></small></p>';
    echo '<p>' . $description . '</p>';
    echo '</div>';
}
```

storeQuestion.php

```php
<?php
//NAAM - STUDENTEN NUMMER
//Date: 31-10-2018
if (isset($_POST["submit"])) {
    //get all the values, and then add them to the xml file.
    $user = filter_input(INPUT_POST, 'name');
    $gender = filter_input(INPUT_POST, 'gender');
    $question = filter_input(INPUT_POST, 'question');
    //load the xml into memory
    $XML = new DOMDocument();
    $XML->load('questions.xml');
    //get the root element.
    $root = $XML->getElementsByTagName('root')->item(0);
    //create a new question item
    $xmlItem = $XML->createElement("item");
    //create a new user item
    $xmlUser = $XML->createElement("user");
    $xmlUser->appendChild($XML->createTextNode($user));
    //create a new gender item
    $xmlGender = $XML->createElement("gender");
    $xmlGender->appendChild($XML->createTextNode($gender));
    //create a new question item
    $xmlQuestion = $XML->createElement("question");
    $xmlQuestion->appendChild($XML->createTextNode($question));
    //Get all the elements from the array
    $AllCheckboxes = "";
    if(isset($_POST['agreeArray'])) {
        foreach($_POST['agreeArray'] as $box){
            $AllCheckboxes = $AllCheckboxes.$box;
        }
    }
    //create a new agreeItem
    $xmlAgree = $XML->createElement("agree");
    $xmlAgree->appendChild($XML->createTextNode($AllCheckboxes));
    //append the above 3 items to the $xmlItem
    $xmlItem->appendChild($xmlUser);
    $xmlItem->appendChild($xmlGender);
    $xmlItem->appendChild($xmlQuestion);
    $xmlItem->appendChild($xmlAgree);
    //append the $xmlItem to the $root
    $root->appendChild($xmlItem);

    $XML->save("questions.xml");

    header("Location: index.php#sectionQuestions");
}
```

getQuestionsFromXML.php

```php
<?php
//NAAM – STUDENTEN NUMMER
//Date: 31-10-2018

$XML = new DOMDocument();
$XML->load('questions.xml');
$lQuestions = array();
foreach ($XML->getElementsByTagName('item') as $node) {
    $item = array(
        'user'     => $node->getElementsByTagName('user')->item(0)->nodeValue,
        'gender'   => $node->getElementsByTagName('gender')->item(0)->nodeValue,
        'question' => $node->getElementsByTagName('question')->item(0)->nodeValue,
        'agree'    => $node->getElementsByTagName('agree')->item(0)->nodeValue,
    );
    array_push($lQuestions, $item);
}
$limit = 5;
for ($x = 0; $x < count($lQuestions); $x++) {
    $user = $lQuestions[$x]['user'];
    $gender = $lQuestions[$x]['gender'];
    $question = $lQuestions[$x]['question'];
    $agree = $lQuestions[$x]['agree'];

    echo '<div class="questionCard">';
    echo '<h3>'.$user.' - <small><em>'.$gender.'</em></small></h3>';
    echo '<h4 id="agree">'.$agree.'</h4>';
    echo '<p>' . $question . '</p>';
    echo '</div>';
}
```

Constants

```php
<?php

// Valid constant names
define("FOO",     "something");
define("FOO2",    "something else");
define("FOO_BAR", "something more");

// Invalid constant names
define("2FOO",    "something");

// This is valid, but should be avoided:
// PHP may one day provide a magical constant
// that will break your script
define("__FOO__", "something");

?>


<?php
define('MIN_VALUE', '0.0');    // RIGHT - Works OUTSIDE of a class definition.
define('MAX_VALUE', '1.0');    // RIGHT - Works OUTSIDE of a class definition.

//const MIN_VALUE = 0.0;         RIGHT - Works both INSIDE and OUTSIDE of a class definition.
//const MAX_VALUE = 1.0;         RIGHT - Works both INSIDE and OUTSIDE of a class definition.

class Constants
{
    //define('MIN_VALUE', '0.0');    WRONG - Works OUTSIDE of a class definition.
    //define('MAX_VALUE', '1.0');    WRONG - Works OUTSIDE of a class definition.

    const MIN_VALUE = 0.0;         // RIGHT - Works INSIDE of a class definition.
    const MAX_VALUE = 1.0;         // RIGHT - Works INSIDE of a class definition.

    public static function getMinValue()
    {
        return self::MIN_VALUE;
    }

    public static function getMaxValue()
    {
        return self::MAX_VALUE;
    }
}

?>
```

Usefull string functions

```php
<?php
echo strlen("Welcome to Cloudways"); //will return the length of given string
?>
```

```php
<?php
echo str_word_count("Welcome to Cloudways"); //will return the number of words in a string
?>
```

```php
<?php
echo strrev("Welcome to Cloudways"); // will return the string starting from the end
?>
```

```php
<?php
echo strpos("Welcome to Cloudways","Cloudways"); //returns the position of Cloudways
?>
```

```php
<?php
echo str_replace("cloudways", "the programming world", "Welcome to cloudways"); //replaces a part of a string with another string
?>
```

```php
<?php
echo ucwords("welcome to the php world"); //uppercase words
?>
```

```php
<?php
echo strtoupper("welcome to cloudways");// It will convert all letters of string into uppercase
?>
```

```php
<?php
echo strtolower("WELCOME TO CLOUDWAYS"); //convert to lower
?>
```

```php
<?php
echo str_repeat("=",13); //prints ===========
?>
```

```php
<?php
echo strcmp("Cloudways","CLOUDWAYS"); //1
echo "<br>";
echo strcmp("cloudways","cloudways"); //Both the strings are equal //0
echo "<br>";
echo strcmp("Cloudways","Hosting"); //-1
echo "<br>";
echo strcmp("a","b"); //compares alphabetically //-1
echo "<br>";
echo strcmp("abb baa","abb baa caa"); //compares both strings and returns the result in terms of number of characters.
?>
```

```php
<?php
echo substr("Welcome to Cloudways",6)."<br>";
echo substr("Welcome to Cloudways",0,10)."<br>";
?>
```

```php
<?php
$str = "Wordpess Hosting";
echo $str . "<br>";
echo trim("$str","Wording"); //returns: pess Host
?>
```