## TASK 2

Create database task2 with 2 tables:

```
qr_code
id_qr_code
id_statistic
file_name
title
code

file_name
tid_qr_code
title
user_agent
ip_address
promo_code
date_time
```

Create file *create\_qr\_code.php* which generates 4 QR codes. Images with QR codes put in *codes* folder. Define the file name as you wish. Content of each QR code is URL in format:

```
http://your ngrok address/your folder/scan.php?code=random code
```

Parameter *code* is unique for every QR code and should be a random number from 4 to 6 numbers long. For generating random number you can use code below:

```
$length = mt_rand(4, 6);
$down = 0;
$up = 9;
$i = 0;
$code = "";

while ($i < $length) {
    $code .= mt_rand($down, $up);
    $i++;
}
settype($code, "integer");</pre>
```

More info: https://www.php.net/manual/en/function.mt-rand.php

After generating QR codes put data in  $qr\_code$  table. Title is a string that will be shown below every QR code on index.php page.

Create index.php page which will shown 4 QR codes from  $qr\_code$  table. For showing QR codes create function getQrCodeData which will return data from  $qr\_code$  table in array format. Using foreach function write out all data from that array (QR code image and title)

Create *scan.php* page which receives *code* parameter with GET method. After receiving data *scan.php* you need to check if *code* is integer and if it exists in *qr\_code* table. For checking this create function *codeExists*. This function returns *id\_qr\_code* for valid code and *false* for invalid code. If code exists and **scan** cookie is not set, insert data into *statistic* table and create random *promo code* and show it to the user. Promo code is random number from 3 to 7 numbers long. After that create cookie **scan** which has value *YES* and lifetime of 15 minutes. For testing purposes reduce the lifetime of cookie, for example to 30 seconds.

If code doesn't exist in table write out message "Invalid data, have a good day!".

For inserting data in *statistic* table create *insertIntoStatistic* function. For creating random promo code create *createPromoCode* function.

Create *statistics.php* page which shown all data from *statistic* table in descending order based on date. Data should be presented in table format.

Create *db.php* file for database connection code, *config.php* file for config parameters and *functions.php* file for function definitions. These files are included in *index.php*, *create\_qr\_code.php*, *scan.php* and *statistics.php* 

**Important:** Test your project with *ngrok* and your mobile phone. You should have QR code scanner installed on your mobile device.

**Help**: use files from *help* folder in *task2.zip* file. For generating QR codes use *phpqrcode* class and examples from *02.zip* file.