

## Example code Tuulia Antonius

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### Intro

Here is a example how I am exporting data from the database to an Excel sheet using the Laravel framework and PHPExcel class.

This example has two classes.

Class **Customer** is a business class for customer business rules. It gets the data and calls class ***ExcelExport*** to render the data in Excel.

## Class Customer

```
<?php
/**
 * Class Customer
 *
 * This is s business class to handle the business rules related to the
 * customer.
 *
 * This class uses the database Model \App\Customer as database abstraction layer
 * to handle the database transactions.
 *
 * @package App\Services
 * @author Tuulia Antoninius
 */
namespace App\Services;
use App\Services\ExcelExport;
use App\Customer as CustomerModel;

class Customer {

    /**
     * exportToExcel
     *
     * Export the list of clients to a Excel
     *
     * @param array $customers
     */
    public function exportToExcel($customers = array()) {
        // If no customer list defined get all from database
        if (!$customers) {
            $customers = CustomerModel::all()->toArray();
        }
        $excel = new ExcelExport();
        // Define Excel header columns
        $header = array('id', 'Naam', 'Email');
        // Define the data rows to export to Excel
        $exportArray = array();
        foreach ($customers as $customer) {
            $exportArray[] = array(
                $customer['RegId'],
                $customer['Name'],
                $customer['Email']
            );
        }
        // Define Excel sheets
        $sheets = array(
            array('title'=> 'sheet1',
                'header' => $header,
                'rows' => $exportArray )
        );
        // Export
        $excel->export('customers', 'customers title ', $sheets);
    }

    /**
     * Search clients by given search term (not needed for excel export)
     *
     * @param string $term
     * @return array
     */
    static public function search($term) {
        $request = array('term' => $term);
        $results = \App\Customer::where(function($q) use ($request) {
            $q->orWhere('RegId', 'like', '%' . $request['term'] . '%');
            $q->orWhere('Name', 'like', '%' . $request['term'] . '%');
            $q->orWhere('Email', 'like', '%' . $request['term'] . '%');
        })->get();
        return $results;
    }
}
```

```
} }
```

## Class *ExcelExport*

```
<?php
/**
 * Class ExcelExport
 *
 * This is a generic class to export data to Excel
 *
 * This class is used by calling the method Export.
 * As parameters you give an array of Excel sheets containing the header columns and the data rows.
 *
 * Example
 *
 * ExcelExport->export(
 *     'myFile',
 *     'My title',
 *     [
 *         [
 *             'title' => 'sheet1, Customers',
 *             'header' => ['name', 'tel', 'address'],
 *             'rows' => [
 *                 ['Diederik Cools', '12 33434', 'Grote Houtstraat 99'],
 *                 ['Jos v.d. Sanden ', '23 33 33', 'Koningsweg 42'],
 *                 ['Justin Steenkamp ', '12 234 23' , 'Zijperstraat 46-50']
 *             ]
 *         ],
 *         'title'=> 'sheet2, Products',
 *         'header' => ['name', 'productCode', 'price'],
 *         'rows' => [
 *             ['AVB cooler', 'sd3X22', '123.34'],
 *             ['NyZ filter', 'fsi23ER2', '54.3'],
 *             ['RTS ventilator', 'KOP_234', '234.2'],
 *         ]
 *     ]
 * );
 *
 * @package App\Services
 */
namespace App\Services;
use Excel; // Laravel PHPExcel class
class ExcelExport {

    /**
     * Array of all sheets, including title, header columns and data
     *
     * @var array
     */
    private $sheets = array();

    /**
     *
     * @var type
     */
    private $currentSheet = 0;

    /**
     * Excel title
     *
     * @var string
     */
    private $title = '';
```

```

/**
 * Font type bold
 *
 * @var array
 */
private $fontTypeBold = array(
    'name'    => 'Calibri',
    'size'    => 12,
    'bold'    => true
);

```

```

/**
 * __construct()
 */
public function __construct() {
}

```

```

/**
 * Export data to Excel
 *
 * See how to use in the header of this file.
 *
 * @param $fileName
 * @param $title
 * @param array $sheets
 */
public function export( $fileName , $title, array $sheets)
{
    $this->sheets = $sheets;
    $this->currentSheet = 0;
    $this->title = $title;

    Excel::create($fileName, function($excel) {
        $excel->setTitle($this->title);
        $this->setSheets($excel);
    })->export('xlsx');
    die('');
}

```

```

/**
 * Set data sheets
 *
 * @param $excel
 */
private function setSheets($excel) {
    foreach ($this->sheets as $sheet) {
        $excel->sheet($sheet['title'], function($sheet) {
            $this->setHeader($sheet, $this->currentSheet);
            $this->setRows($sheet, $this->currentSheet);
        });
        $this->currentSheet ++;
    }
}

```

```

/**
 * setHeader columns
 *
 * @param object $sheet
 * @param integer $currentSheet
 */
private function setHeader($sheet, $currentSheet) {
    $header = $this->sheets[$currentSheet]['header'];
    $sheet->rows(array($header));

    // set header bold
    for($i = 0 ; $i< count($header); $i++) {
        $letter = chr($i+65);
        $sheet->getStyle($letter . '1')->applyFromArray(array(
            'font' => $this->fontTypeBold
        ));
    }
}

/**
 * Set data rows
 *
 * @param object $sheet
 * @param integer $currentSheet
 */
private function setRows($sheet, $currentSheet) {
    $rows = $this->sheets[$currentSheet]['rows'];
    $sheet->rows($rows);
}
}

```