-- Работа для программистов в Германии --
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Images Processor Bot

The goal of task is to test your php skills. Please write your "best code" to get the best contract.

Introduction

The task is to write a command line script - Bot. It downloads images from the Internet.

The workflow should be divided into the following independent steps:

- Schedule list of images to be downloaded.
- Download image and save to local storage.

Each step works with its own queue, e.g. `scheduler` adds new URLs to `download` queue, `downloader` takes URL from `download` queue and saves files.

After all there are the following queues:

- `download` - URLs ready to be downloaded.
- `done` - completed URLs.
- `failed` - failed URLs.

If step fails it should move URL to `failed` queue. For example, if image could not be downloaded right now (e.g. due to network problems) corresponding task should be moved to `failed` queue.

Requirements

- Code should be uploaded to public github or bitbucket repository.
- Code format should conform PSR-2.
- There should be `composer.json` file with list of external dependencies and autoloading rules.
- Bot should work under any Linux operation system.
- Feel free to choose any storage for queues, e.g. RabbitMQ, beanstalkd or any relational database. It should be easy to install it on test machine.

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CLI Script

Bot should be implemented as a PHP command line script named `bot`.

```
$ bot
```

Description of commands are listed below in this section.

Scheduler

Accepts a file with list of URLs to download and schedule them for download, i.e. adds to `download` queue. Only `http` and `https` protocols are supported. If URL is malformed then add it to `failed` queue instead.

```
$ bot schedule images.txt
```

File `images.txt` contains list of links, one per line:

```
http://www.example.com/image1.jpg
https://example.net/image2.png
http://example.org/image.php?id=123&size=small
```

Downloader

Downloads images from the `download` queue to local temporary folder. If image is not available moves URL to `failed` queue. May rename downloaded image if necessary.

```
$ bot download
```