Пример оформления листингов:

Листинг 4.1 – Метод для автоматической расстановки «карточек» расписания

<?php

/\*\*

     \* @param Schedule $schedule

     \* @return string

     \*/

    public function arrangement(Schedule $schedule)

    {

        $all\_cards = $schedule->cards;

        $subject\_request = [];

        $locked\_lessons = [];

        foreach ($all\_cards as $card) {

            $days = json\_decode($card['lesson\_request']['available\_days']);

            for ($i = 0; $i < count($days); $i++) {

                $days[$i] -= 1;

            }

            $classrooms = Classroom::find(json\_decode($card['available\_classrooms']));

            $classroom\_spited = [[], []];

            foreach ($classrooms as $c) {

                array\_push($classroom\_spited[$c['building']['id'] - 1], $c['id']);

            }

            array\_push($subject\_request, array(

                'id' => $card['id'],

                'professor' => $card['lesson\_request']['teacher\_id'],

                'complexity' => $card['lesson\_request']['complexity'],

                'days' => $days,

                'groups' => json\_decode($card['student\_groups']),

                'classrooms' => $classroom\_spited,

            ));

            if (isset($card['number']) && isset($card['day\_type\_id'])) {

                array\_push($locked\_lessons, array(

                    'address' => $this->to\_address($card['day\_type\_id'], $card['number']),

                    'subject\_request\_id' => $card['id']

                ));

            }

        }

        $send\_data = array(

            'subject\_requests' => $subject\_request,

            'locked\_lessons' => $locked\_lessons

        );

        $response = Http::timeout(60)->post('http://127.0.0.1:9304/makeSchedule', $send\_data);

        foreach ($response->json() as $item) {

            $card = $all\_cards->find($item['subject\_request\_id']);

            $from\_address = $this->from\_address($item['address']);

            $card->number = $from\_address['number'];

            $card->day\_type\_id = $from\_address['day\_type\_id'];

            if ($item['classroom'] > 0) {

                $card->classroom\_id = $item['classroom'];

            }

            $card->save();

        }

        return 'ok';

    }