

# Tempo: Online Room Reservation

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# Problems

## Original Reservation System (By paper)

- Hard to check the facility availability
- Difficult to keep records
- Unclear reservation method



# Solution

## Tempo (Online Reservation System) Main Features

- Students
  - Check facility availability
  - Make/Cancel reservation
  - Check penalty
- Admin (Staff)
  - Manage facility
  - Manage reservation
  - Give penalty



# Demo

Link (Heroku): <http://tempo-igc.herokuapp.com>

- Reservation system
- Facility/Reservation management
- Penalty system



# Start/Finish Retrospective

- Removed report system
- Modified architectural design of timetable
- Changed some parameters in model / controller
  - ex) [Timeslot] End Time -> Duration
- Changed UI



# What We Learned

- Importance of beta test / communication with clients




# Next Steps

- Report system
- Give penalty on past reservation by staff
- Search facility by facility name
- Responsive display



Thank You





# Tempo: Online Room Reservation (Part 2)

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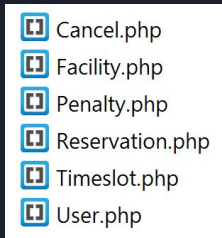


# Technology Stack

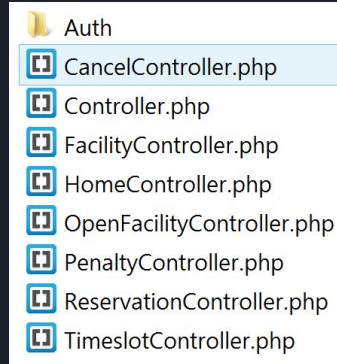
- HTML5, CSS3, Javascript
- PHP 7.3
- Laravel 5
- MySQL 8.0
- Heroku
- MVC model

# Laravel (PHP Framework)

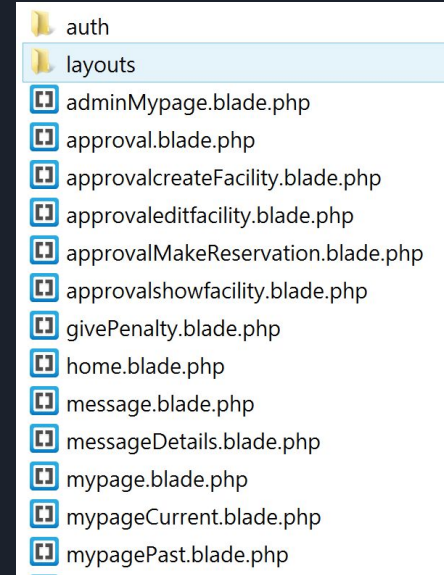
- Easy implementation of MVC model
- Easy use of PHP code in view (blade template)
  - Not <?php ... ?>



Model



Controller



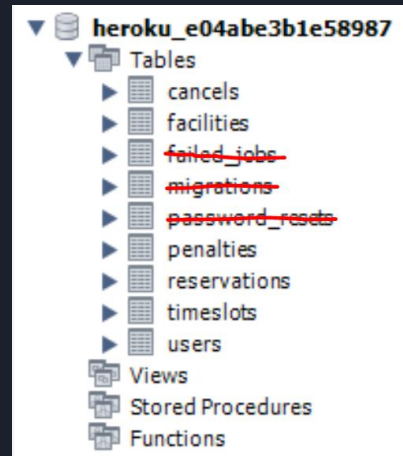
View

# Laravel (PHP Framework)

- php artisan make:model facility (-m)
- php artisan make:controller facility
- php artisan route:list

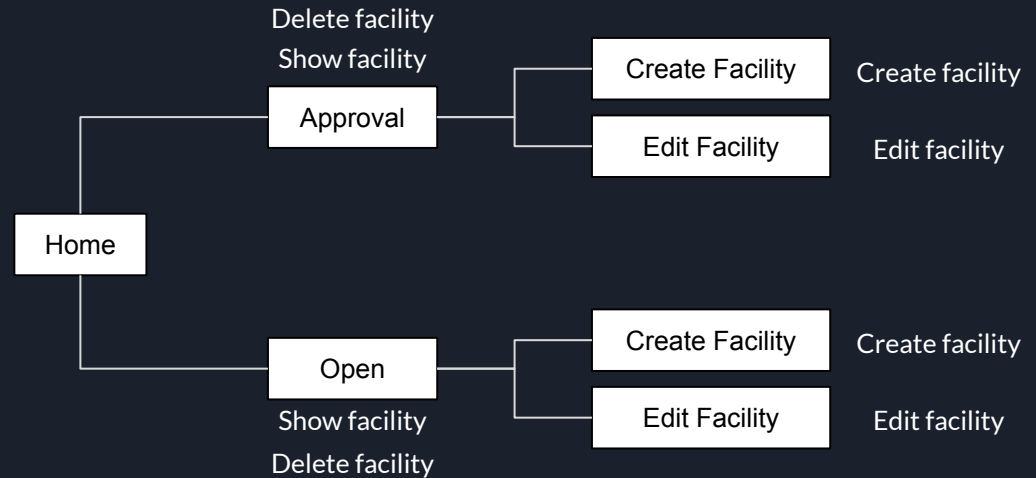
GET HEAD	api/user		Closure	api,auth:api
GET HEAD	approval	approval.index	App\Http\Controllers\FacilityController@index	web,auth
POST	approval	approval.store	App\Http\Controllers\FacilityController@store	web,auth
GET HEAD	approval/create	approval.create	App\Http\Controllers\FacilityController@create	web,auth
POST	approval/reservation	approval.store	App\Http\Controllers\ReservationController@approvalStore	web,auth
POST	approval/timeslot	approvalTimeslot	App\Http\Controllers\TimeslotController@approvalStore	web,auth
DELETE	approval/{approval}	approval.destroy	App\Http\Controllers\FacilityController@destroy	web,auth
GET HEAD	approval/{approval}	approval.show	App\Http\Controllers\FacilityController@show	web,auth
PUT PATCH	approval/{approval}	approval.update	App\Http\Controllers\FacilityController@update	web,auth
GET HEAD	approval/{approval}/edit	approval.edit	App\Http\Controllers\FacilityController@edit	web,auth
GET HEAD	home	home	App\Http\Controllers\HomeController@index	web,auth
GET HEAD	login	login	App\Http\Controllers\Auth\LoginController@showLoginForm	web,guest
POST	login		App\Http\Controllers\Auth\LoginController@login	web,guest
POST	logout	logout	App\Http\Controllers\Auth\LoginController@logout	web
GET HEAD	message	message.index	App\Http\Controllers\ReservationController@message	web
GET HEAD	message/{id}	message.approve	App\Http\Controllers\CancelController@messageApprove	web
GET HEAD	messageSelectUpdate/{id}	messageSelectUpdate	App\Http\Controllers\TimeslotController@messageSelectUpdate	web
GET HEAD	mypage	mypageReservation	App\Http\Controllers\ReservationController@mypageReservation	web
POST	mypage/cancel	cancel.store	App\Http\Controllers\CancelController@store	web
GET HEAD	mypage/cancel	cancel.index	App\Http\Controllers\CancelController@index	web

# Code Organization

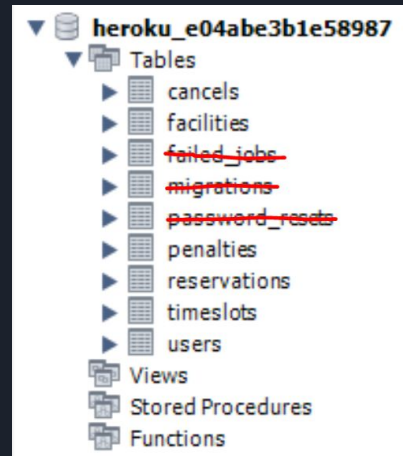


Database

## Facility

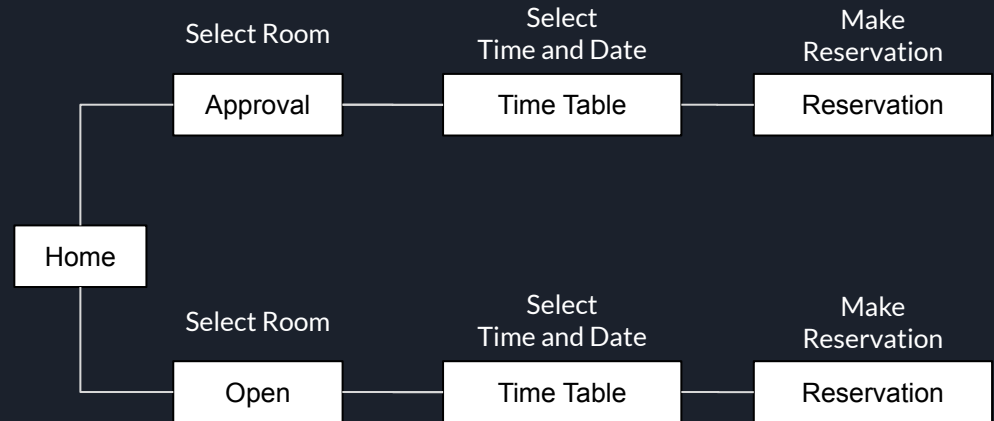


# Code Organization



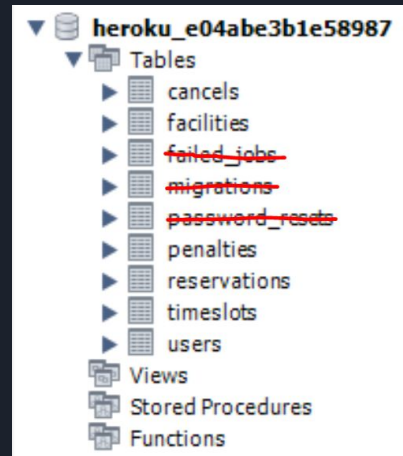
Database

## Reservation



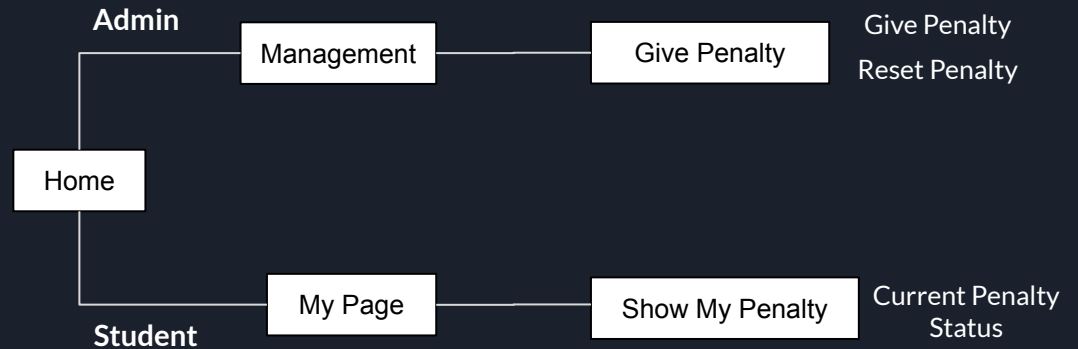


# Code Organization



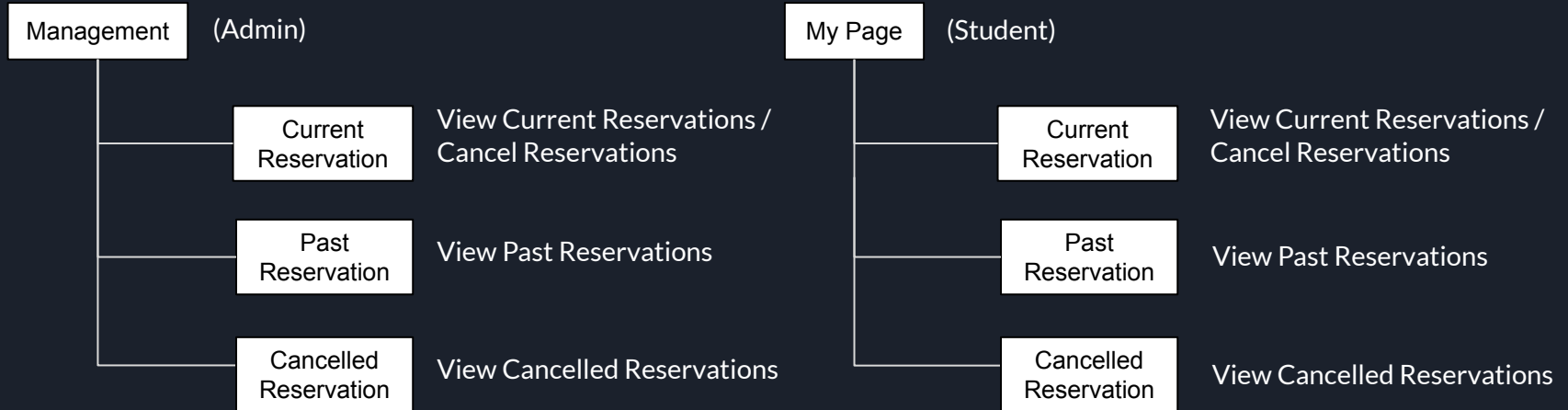
Database

## Penalty



# Code Organization

## Management / My Page





# Interesting Parts

- Timetable
- Making filled-in timeslot unclickable
- Two or more query in controller

Thank You

