

旅行预订系统✈️

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实验平台

- 操作系统： OS X 10.10.5
- 数据库： Mysql
- 编程语言： Ruby 2.3.1
- Web框架： Ruby on Rails 4.2.6
- 接口： Mysql2

子系统划分

- Admin Management System
 - 主要用于让管理员在后台管理可用的旅行资源
- User Management System
 - 主要用于用户订单的管理

Admin Management System

- 在<http://localhost:3000/admins>登入

Admins log in

Username	<input type="text" value="root"/>
Password	<input type="password" value="....."/>
<input type="button" value="Log In"/>	

Login successful.

Administer Management System

[logout](#)

Administer List

Adminname	Password	Option
root		Destroy

[New Admin](#)

可增加新管理员或删除已有管理员

Cars list

Location	Price	Numcars	Numavails	Option
beijing	10	100	50	Destroy Edit
shanghai	9	200	100	Destroy Edit
guangzhou	8	150	7	Destroy Edit
shenzhen	8	150	70	Destroy Edit

[New car infomation](#)

可添加、删除、修改
Cars table中的信息

Hotels list

Location	Price	Numcars	Numavails	Option
beijing	1000	100	50	Destroy Edit
shanghai	900	200	100	Destroy Edit
guangzhou	800	150	70	Destroy Edit
shenzhen	800	150	70	Destroy Edit

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user1 reservation

flight reservation

Flightnum	Price	numseats	numavail	Fromcity	Arivcity	Option
CA001	1000	100	50	guangzhou	beijing	unbook

hotel reservation

Location	Price	Numcars	Numavails	Option
shanghai	900	200	100	unbook

car reservation

Location	Price	Numcars	Numavails	Option
beijing	10	100	50	unbook

查看用户的订单信息，
还可以取消用户的订单

user2 reservation

car reservation

Location	Price	Numcars	Numavails	Option
shanghai	9	200	101	unbook

Users list

user1 [Destroy](#)

user2 [Destroy](#)

管理用户账号

Editing Flight

Flightnum

Price

Numseats

Numavail

Fromcity

Arivcity

[<< Back to List](#)

所有信息的录入和修改
都通过“表单”来进行

User Management System

- 在<http://localhost:3000/users>登入

Users log in

Username

Password

Log In

[sign up as a new user](#)

登录

[<< Back to List](#)

User Signup

Username

Password

Create User

注册

Login successful.

User Management System

[logout](#)

check travel route

用于检查预定
线路的完整性

Cars list

Location	Price	Numcars	Numavails	Option
beijing	10	100	50	book
shanghai	9	200	101	book
guangzhou	8	150	7	book
shenzhen	8	150	70	book

在这里进行预订

Hotels list

Location	Price	Numcars	Numavails	Option
beijing	1000	100	50	book
shanghai	900	200	100	book
guangzhou	800	150	70	book
shenzhen	800	150	70	book

flight reservation

Flightnum	Price	numseats	numavail	Fromcity	Arivcity	Option
CA001	1000	100	50	guangzhou	beijing	unbook

hotel reservation

Location	Price	Numcars	Numavails	Option
shanghai	900	200	100	unbook

car reservation

Location	Price	Numcars	Numavails	Option
beijing	10	100	50	unbook

在这里查看以后的订单，
unbook按钮用于取消预订

check travel route 检查旅行路线

[back](#)

Fromcity:

Arivcity:

check

输入出发城市和到达城市，
check

your reservation

flight reservation

Flightnum	Price	numseats	numavail	Fromcity	Arivcity	Option
CA001	1000	100	50	guangzhou	beijing	unbook

hotel reservation

Location	Price	Numcars	Numavails	Option
shanghai	900	200	100	unbook

car reservation

Location	Price	Numcars	Numavails	Option
beijing	10	100	50	unbook

EG: from guangzhou to beijing

Flights list

Flightnum	Price	numseats	numavail	Fromcity	Arivcity	Option
CA001	1000	100	50	guangzhou	beijing	book

Arivcity Cars list

Location	Price	Numcars	Numavails	Option
beijing	10	100	50	book

Fromcity Cars list

Location	Price	Numcars	Numavails	Option
guangzhou	8	150	7	book

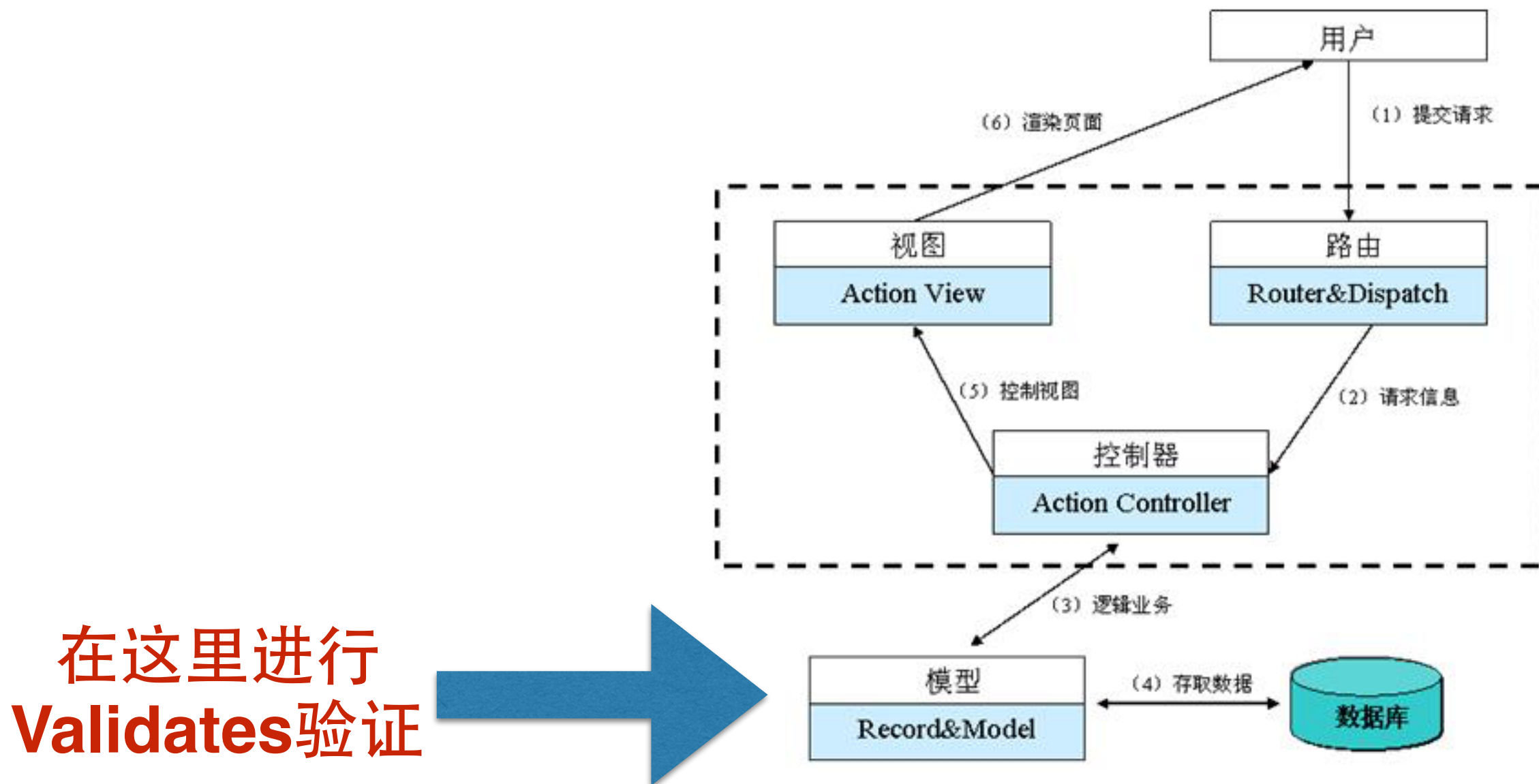
Hotels list

Location	Price	Numcars	Numavails	Option
beijing	1000	100	50	book

tables

- Cars
- Flights
- Hotels
- Reservations
- Users
- Admins

Rails MVC框架



Validates Examples

```
class Admin < ActiveRecord::Base
  has_secure_password
  validates :adminname, presence: true, uniqueness: true
  validates :password, presence: true
end
```

- 账号不可空缺、必须唯一
- 密码不可空缺
- has_secure_password

```
class Flight < ActiveRecord::Base
  validates :flightnum, presence: true, uniqueness: true
  validates_numericality_of :numavail, :greater_than_or_equal_to => 0
end
```

- numavail 要大于等于0

Security

来自bcrypt 3.1.7,
has_secure_password

```
mysql> select * from users;
+-----+-----+-----+-----+-----+
| id | username | created_at | updated_at | password_digest |
+-----+-----+-----+-----+-----+
| 1 | user1 | 2016-05-28 14:59:19 | 2016-05-28 14:59:19 | $2a$10$okQHY9gx6R1.ZhEkU9nkXueP2k17oBJMic9qyXyRGS4JRFqHkbgqS |
| 2 | user2 | 2016-05-28 14:59:19 | 2016-05-28 14:59:19 | $2a$10$s0ZQLrdbIM3VzJYmddfPw.940TE930BJF1FT9k9QNrzTsuS6F2Qi2 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
$2a$10$okQHY9gx6R1.ZhEkU9nkXueP2k17oBJMic9qyXyRGS4JRFqHkbgqS
$2a$10$s0ZQLrdbIM3VzJYmddfPw.940TE930BJF1FT9k9QNrzTsuS6F2Qi2
```

登陆时，密码不作为地址中的参数传递

Security

另外，在需要验证的页面，显示页面之前需要先进行验证，
确保是已登陆的用户或者管理员

```
before_action :confirm_logged_in_admin, :except => [:login, :attempt_login, :logout]
```

```
protect_from_forgery with: :exception
private
def confirm_logged_in_admin
  unless session[:user_id] && session[:priv] == 'admin'
    flash[:notice] = "Please log in."
    redirect_to(:controller => 'admins', :action => 'login')
    return false
  else
    return true
  end
end
```

Data

```
ActiveRecord::Schema.define(version: 20160518091648) do
```

```
  create_table "admins", force: :cascade do |t|
    t.string "adminname", limit: 255
    t.datetime "created_at", null: false
    t.datetime "updated_at", null: false
    t.string "password_digest", limit: 255
  end
```

```
  create_table "cars", force: :cascade do |t|
    t.string "location", limit: 255
    t.integer "price", limit: 4
    t.integer "numcars", limit: 4
    t.integer "numavail", limit: 4
    t.datetime "created_at", null: false
    t.datetime "updated_at", null: false
  end
```

```
  create_table "flights", force: :cascade do |t|
    t.string "flightnum", limit: 255
    t.integer "price", limit: 4
    t.integer "numseats", limit: 4
    t.integer "numavail", limit: 4
    t.string "fromcity", limit: 255
    t.string "arivcity", limit: 255
    t.datetime "created_at", null: false
    t.datetime "updated_at", null: false
  end
```

```
  create_table "hotels", force: :cascade do |t|
    t.string "location", limit: 255
    t.integer "price", limit: 4
    t.integer "numrooms", limit: 4
    t.integer "numavail", limit: 4
    t.datetime "created_at", null: false
    t.datetime "updated_at", null: false
  end
```

```
  create_table "reservations", force: :cascade do |t|
    t.integer "resvtype", limit: 4
    t.datetime "created_at", null: false
    t.datetime "updated_at", null: false
    t.integer "resvkey", limit: 4
    t.integer "custid", limit: 4
  end
```

```
  create_table "users", force: :cascade do |t|
    t.string "username", limit: 255
    t.datetime "created_at", null: false
    t.datetime "updated_at", null: false
    t.string "password_digest", limit: 255
  end
```

```
end
```

Thanks for listening