OOP FINAL PROJECT

Electric Vehicle Rental Software Development

bitbucket　雲端連結

JDBC

SQLit

Method

Google Maps

DATABASE

SQLit

🔑 **PRIMARY KEY**   🗝️ **FOREIGN KEY**

	INTEGER	"power" INTEGER CHECK(power >=0 AND
RentalHistory		CREATE TABLE RentalHistory (Date TEXT, Tot
Date	TEXT	"Date" TEXT
TotalAmount	REAL	"TotalAmount" REAL
StartLongitude	REAL	"StartLongitude" REAL NOT NULL
StartLatitude	REAL	"StartLatitude" REAL NOT NULL
EndLongitude	REAL	"EndLongitude" REAL NOT NULL
EndLatitude	REAL	"EndLatitude" REAL NOT NULL
Distance	REAL	"Distance" REAL
StartTime	TEXT	"StartTime" TEXT
EndTime	TEXT	"EndTime" TEXT
TotalTime	TEXT	"TotalTime" TEXT
ChargingCount	INTEGER	"ChargingCount" INTEGER
CouponUsed	INTEGER	"CouponUsed" INTEGER DEFAULT 0
LicensePlate	TEXT	"LicensePlate" TEXT
user_email	TEXT	"user_email" TEXT
Staff		CREATE TABLE Staff (password TEXT NOT NI
password	TEXT	"password" TEXT NOT NULL
phoneNumber	TEXT	"phoneNumber" TEXT UNIQUE
email	TEXT	"email" TEXT NOT NULL UNIQUE
name	TEXT	"name" TEXT
User		CREATE TABLE User (password TEXT NOT NI
password	TEXT	"password" TEXT NOT NULL
phoneNumber	TEXT	"phoneNumber" TEXT NOT NULL UNIQUE
email	TEXT	"email" TEXT NOT NULL UNIQUE
name	TEXT	"name" TEXT NOT NULL
creditCardInfo_id	INTEGER	"creditCardInfo_id" INTEGER UNIQUE
couponCount	INTEGER	"couponCount" INTEGER DEFAULT 0
creditCardInfo		CREATE TABLE creditCardInfo (creditCardInfo_i
creditCardInfo_id	INTEGER	"creditCardInfo_id" INTEGER NOT NULL
ExpiryDate	TEXT	"ExpiryDate" TEXT
creditCardNumber	TEXT	"creditCardNumber" TEXT UNIQUE
Cvv	TEXT	"Cvv" TEXT

DATABASE

 PRIMARY KEY   **FOREIGN KEY**

SQLit

名稱	類型	架構
資料表 (0)		
AvailableVehicles		CREATE TABLE AvailableVehicles (no TEXT PRIMARY KEY,
no	TEXT	"no" TEXT
power	INTEGER	"power" INTEGER NOT NULL
lat	REAL	"lat" REAL NOT NULL
lng	REAL	"lng" REAL NOT NULL
ChargingPiles		CREATE TABLE ChargingPiles (PileID INTEGER PRIMARY KE
PileID	INTEGER	"PileID" INTEGER
StationID	INTEGER	"StationID" INTEGER
Status	TEXT	"Status" TEXT
ChargingStations		CREATE TABLE ChargingStations (no INTEGER PRIMARY KE
no	INTEGER	"no" INTEGER
lat	REAL	"lat" REAL NOT NULL
lng	REAL	"lng" REAL NOT NULL
Coupon		CREATE TABLE Coupon (id INTEGER PRIMARY KEY NOT N
id	INTEGER	"id" INTEGER NOT NULL
isUsed	INTEGER	"isUsed" INTEGER DEFAULT 0
FaultyVehicles		CREATE TABLE FaultyVehicles (no TEXT PRIMARY KEY, lat
no	TEXT	"no" TEXT
lat	REAL	"lat" REAL NOT NULL
lng	REAL	"lng" REAL NOT NULL
Status	TEXT	"Status" TEXT
power	INTEGER	"power" INTEGER CHECK("power" >= 0 AND "power" <= 100)

CONSTRUCTURE

com.carrentalplatform
controller
Coupon
dao
exceptions
History
model
service
DatabaseHelper
InternalActivity
SettingActivity
SettingDatabaseHelper
StartActivity
StartDatabaseHelper

CONSTRUCTURE

controller
- ChargingStationController
- RentalController
- UserController
- VehicleController

Coupon
- Coupon
- CouponActivity
- CouponAdapter
- CouponDatabaseHelper

dao
- ChargingStationDao
- RentalRecordDao
- UserDao
- VehicleDao

exceptions
- ChargingException
- RentalException

History
- History
- HistoryActivity
- HistoryAdapter
- HistoryDatabaseHelper

model
- ChargingStation
- CreditCardInfo
- RentalRecord
- User
- Vehicle
- VehicleMovement

service

- DatabaseHelper
- InternalActivity
- SettingActivity
- SettingDatabaseHelper
- StartActivity
- StartDatabaseHelper

OOP FINAL PROJECT

NTU BLOG

bitbucket

3 Part

前台前端

後台前端

後端server

tag
- id VARCHAR(36)
- label VARCHAR(255)
- value VARCHAR(255)
- create_at DATETIME(6)
- update_at DATETIME(6)
- Indexes

view
- id VARCHAR(36)
- ip VARCHAR(255)
- userAgent TEXT
- url TEXT
- count INT(11)
- address TEXT
- browser TEXT
- engine TEXT
- os TEXT
- device TEXT
- create_at DATETIME(6)
- update_at DATETIME(6)
- Indexes

article
- id VARCHAR(36)
- title VARCHAR(255)
- cover VARCHAR(255)
- summary TEXT
- content MEDIUMTEXT
- html MEDIUMTEXT
- toc MEDIUMTEXT
- status ENUM(...)
- views INT(11)
- likes INT(11)
- isRecommended TINYINT(4)
- password TEXT
- needPassword TINYINT(4)
- isCommentable TINYINT(4)
- publishAt TIMESTAMP
- create_at DATETIME(6)
- update_at DATETIME(6)
- categoryId VARCHAR(36)
- Indexes

setting
- id VARCHAR(36)
- i18n TEXT
- systemUrl TEXT
- systemTitle TEXT
- systemLogo TEXT
- systemBg TEXT
- systemFavicon TEXT
- systemFooterInfo TEXT
- adminSystemUrl TEXT
- baiduAnalyticsId TEXT
- googleAnalyticsId TEXT
- seoKeyword TEXT
- seoDesc TEXT
- oss TEXT
- smtpHost TEXT
- smtpPort TEXT
- smtpUser TEXT
- smtpPass TEXT
- smtpFromUser TEXT
- create_at DATETIME(6)
- update_at DATETIME(6)
- Indexes

article_tags_tag
- articleId VARCHAR(36)
- tagId VARCHAR(36)
- Indexes

category
- id VARCHAR(36)
- label VARCHAR(255)
- value VARCHAR(255)
- create_at DATETIME(6)
- update_at DATETIME(6)
- Indexes

comment
- id VARCHAR(36)
- name VARCHAR(255)
- email VARCHAR(255)
- avatar VARCHAR(255)
- content MEDIUMTEXT
- html MEDIUMTEXT
- pass TINYINT(4)
- userAgent MEDIUMTEXT
- hostId VARCHAR(255)
- url VARCHAR(255)
- parentCommentId VARCHAR(255)
- replyUserName VARCHAR(255)
- replyUserEmail VARCHAR(255)
- create_at DATETIME(6)
- update_at DATETIME(6)
- Indexes

search
- id VARCHAR(36)
- type VARCHAR(255)
- keyword VARCHAR(255)
- count INT(11)
- create_at DATETIME(6)
- update_at DATETIME(6)
- Indexes

smtp
- id VARCHAR(36)
- from TEXT
- to TEXT
- subject TEXT
- text TEXT
- html TEXT
- create_at DATETIME(6)
- Indexes

page
- id VARCHAR(36)
- cover VARCHAR(255)
- name VARCHAR(255)
- path VARCHAR(255)
- order INT(11)
- content MEDIUMTEXT
- html MEDIUMTEXT
- toc MEDIUMTEXT
- status ENUM(...)
- publishAt TIMESTAMP
- views INT(11)
- create_at DATETIME(6)
- update_at DATETIME(6)
- Indexes

knowledge
- id VARCHAR(36)
- parentId VARCHAR(255)
- order INT(11)
- title VARCHAR(255)
- cover VARCHAR(255)
- summary TEXT
- content MEDIUMTEXT
- html MEDIUMTEXT
- toc MEDIUMTEXT
- status ENUM(...)
- views INT(11)
- likes INT(11)
- isCommentable TINYINT(4)
- publishAt TIMESTAMP
- create_at DATETIME(6)
- update_at DATETIME(6)
- Indexes

file
- id VARCHAR(36)
- originalname VARCHAR(255)
- filename VARCHAR(255)
- type VARCHAR(255)
- size INT(11)
- url VARCHAR(255)
- create_at DATETIME(6)
- Indexes

user
- id VARCHAR(36)
- name VARCHAR(500)
- password VARCHAR(500)
- avatar VARCHAR(500)
- email VARCHAR(500)
- role ENUM(...)
- status ENUM(...)
- type VARCHAR(255)
- create_at DATETIME(6)
- update_at DATETIME(6)
- Indexes

DATABASE
MySQL®

```json
{
  "name": "wipi",
  "private": true,
  "author": "fantasticit",
  ▷ Debug
  "scripts": {
    "clean": "npx rimraf ./node_modules ./packages/**/node_modules",
    "dev": "concurrently 'pnpm:dev:*'",
    "dev:server": "pnpm run --dir packages/server dev",
    "dev:client": "pnpm run --dir packages/client dev",
    "dev:admin": "pnpm run --dir packages/admin dev",
    "build": "pnpm build:config && pnpm build:server && pnpm build:client && pnpm build:admin",
    "build:config": "pnpm run --dir packages/config build",
    "build:server": "pnpm run --dir packages/server build",
    "build:client": "pnpm run --dir packages/client build",
    "build:admin": "pnpm run --dir packages/admin build",
    "start": "concurrently 'pnpm:start:*'",
    "start:server": "pnpm run --dir packages/server start",
    "start:client": "pnpm run --dir packages/client start",
    "start:admin": "pnpm run --dir packages/admin start",
    "pm2": "pnpm run pm2:server && pnpm run pm2:client && pnpm run pm2:admin",
    "pm2:server": "pnpm run --dir packages/server pm2",
    "pm2:client": "pnpm run --dir packages/client pm2",
    "pm2:admin": "pnpm run --dir packages/admin pm2",
    "lint": "concurrently 'pnpm:lint:*'",
    "lint:client": "eslint --fix './packages/client/**/*.{ts,tsx,js,jsx}'",
    "lint:admin": "eslint --fix './packages/admin/**/*.{ts,tsx,js,jsx}'",
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
[dev:*server] [系統] 管理員帳戶已經存在，使用者名稱：admin，密碼：admin，請及時登錄系統修改默認密碼
[dev:*admin] event - compiled client and server successfully in 161.1s (1164 modules)
[dev:*client] event - compiled client and server successfully in 333.2s (2729 modules)
[dev:*client] wait  - compiling / (client and server)...
[dev:*client] event - compiled client and server successfully in 4.1s (2872 modules)
[dev:*client] Warning: [antd: Menu] `children` will be removed in next major version. Please use `items` instead.
[dev:*admin] wait  - compiling /article/editor/[id] (client and server)...
[dev:*admin] event - compiled client and server successfully in 9.3s (3327 modules)
[dev:*client] wait  - compiling /article/[id]...
[dev:*admin] event - compiled client and server successfully in 2.1s (3076 modules)
[dev:*admin] wait  - compiling /article...
[dev:*admin] event - compiled client and server successfully in 3s (3857 modules)
[dev:*admin] wait  - compiling /_error (client and server)...
[dev:*admin] event - compiled client and server successfully in 484 ms (3858 modules)
```