建立資料表

| User | | | | | |
| --- | --- | --- | --- | --- | --- |
| String name | Field | Type | Length | 允許為空 | 主外鍵 |
| ID |  |  |  |  | 主 |
| 密碼 |  |  |  |  |  |
| 註冊時間 |  |  |  |  |  |
| 收件人帳號 |  |  |  |  |  |
| 收件人電話 |  |  |  |  |  |

| Vehicle | | | | | |
| --- | --- | --- | --- | --- | --- |
| String name | Field | Type | Length | 允許為空 | 主外鍵 |
| ID |  |  |  |  | 主 |
| 車速 |  |  |  |  |  |
| 此刻經度 |  |  |  |  |  |
| 此刻緯度 |  |  |  |  |  |
| 車輛的capacity |  |  |  |  |  |
| 車輛到目的地地址 |  |  |  |  |  |

| Order | | | | | |
| --- | --- | --- | --- | --- | --- |
| String name | Field | Type | Length | 允許為空 | 主外鍵 |
| ID |  |  |  |  | 主 |
| 開箱密碼 |  |  |  |  |  |
| 寄件者帳號 |  |  |  |  |  |
| 收件人帳號 |  |  |  |  |  |
| 車廂編號 |  |  |  |  |  |
| 入箱時間 |  |  |  |  |  |
| 出箱時間 |  |  |  |  |  |
| 車子ID |  |  |  |  |  |

Web server

* 1.用php功能實作
* 2.建立多個user cases, web server目前縮寫為W
* 3.user case1:W接收android 發送的order request，並且建立order table
* 4.user case2:W發送vehicle的移動位置給android，目的希望能在手機端讓user能夠看到vehicle的移動路線
* 5.user case3:根據vehicle的此刻位置為起點，而寄件者的位置為終點，安排一條行經路線

SUMO————> Web Server————>android phone

(order info. & Location)

SUMO的任務

1.Create/ import a new map like Tainan’s map

2.Generate random cars in this area

3.Label the car with ID, velocity, car’s current location, capacity of car

4.send car’s label information to Web Server

5.Dispatch the car and arrange the route (Car to Sender Loc, Sender Loc to Receiver Loc )

6.Keep the dispatching info. of car

當car arrive to sender’s address:

1.SUMO sends arriving notification to sender’s phone with broadcast

2.Sender scan QR-code to change the state of database

當car arrive to Receiver’s address:

1.SUMO send notification to Receiver’s phone with broadcast

2.Receiver scan QR-code and confirm package received

3.change the state of database including Table order and vehicle