1. Ward

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Description |
|  | wardID | String | N/A | ID of ward |
|  | name | String | N/A | Name of ward |
|  | type | String | N/A | Type of ward |
|  | districtID | String | N/A | ID of district has ward |
|  | location | String | N/A | Location of ward in map |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Methods | Parameters | Return | Description |
| 1 | getAllWard | N/A | Array | Get all ward |

1. UserStatus

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Description |
| 1 | statusID | int | N/A | Unique id of status |
| 2 | statusName | String | N/A | Status of user: ban, unban, active,… |

1. User

Attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Description |
| 1 | username | String | N/A | unique username for each user |
| 2 | password | String | N/A | Password of username in BCRYPT format |
| 3 | userRole | int | N/A | roleID of username |
| 4 | userStatus | int | N/A | statusID of username |
| 5 | logintime | Date | N/A | Last time that user logged in |

Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Methods | Parameters | Return | Description |
| 1 | encryptPassword | String | String | Encrypt password from string to BCRYPT format |
| 2 | getAllUser | N/A | Array | Get all users |
| 3 | getAllUserHasRole | int | Array | Get all users has specific role |
| 4 | findUserByUsername | String | Object | Get one user has specific username |
| 5 | findUserDetail | String | Object | Get one user has specific username with profile |
| 6 | addNewUser | Object | Object | Add new user to database |
| 7 | putUser | Object | Object | Update user’s information |
| 8 | getAllShipperWithTask | N/A | Array | Get all shippers with their task and related information |
| 9 | getAllTaskProcessingOfShipper | String | Array | Get all shippers with their processing task |
| 10 | updateLoginTime | String, Date | Object | Update login time of user |
| 11 | checkTokenTime | String, Date | Object | Check token is valid or not |
| 12 | updateUserStatus | String, int | Object | Update status of user |

1. TaskType

Attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Description |
| 1 | typeID | int | N/A | ID of type |
| 2 | typeName | String | N/A | Name of type |

Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Methods | Parameters | Return | Description |
| 1 | getAllTaskType | N/A | Array | Get all types of task |

1. TaskStatus

Attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Description |
| 1 | statusID | int | N/A | ID of status |
| 2 | statusName | String | N/A | Name of status |

Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Methods | Parameters | Return | Description |
| 1 | getAllTaskStatus | N/A | Array | Get all status of task |

1. Task

Attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Description |
| 1 | taskID | int | N/A | Unique username of profile |
| 2 | statusID | int | N/A | Full name |
| 3 | adminID | String | N/A | Identity Card |
| 4 | shipperID | String | N/A | Address |
| 5 | orderID | String | N/A | Date of birth |
| 6 | typeID | int | N/A | Email |
| 7 | taskDate | Date | N/A | When task is created |

Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Methods | Parameters | Return | Description |
| 1 | getAllHistoryOfShipper | String | Array | Get history all tasks of shipper |
| 2 | countTotalTaskHistoryOfShipper | String | Object | Count total tasks of shipper |
| 3 | updateStatusOfTask | int, int | Object | Update status of specific task |
| 4 | updateShipperOfTask | int, String | Object | Update shipper of specific task |
| 5 | assignTaskForShipper | Object | Object | Assign task for shipper |
| 6 | createTaskForShipper | Object | Object | Create new task for shipper |
| 7 | getAllTask | N/A | Array | Get all tasks |
| 8 | updateTaskState | Object | Object | Update status and type of task |
| 9 | getTaskOfShipperByOrder | String, String | Array | Get all task of specific order |
| 10 | countProcessingTaskForShipper | String | int | Number of processing task of shipper |
| 11 | deleteTask | Object | int | Delete specific task |
| 12 | adminCountTaskOfEachShipper | N/A | Array | Number task of each shipper |

1. Store

Attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Description |
| 1 | storeID | String | N/A | Unique id of store |
| 2 | name | String | N/A | Store’s name |
| 3 | description | String | N/A | Description about store |
| 4 | address | String | N/A | Address |
| 5 | email | String | N/A | Email |
| 6 | phoneNumber | String | N/A | Phone number |
| 7 | avartar | String | N/A | Link of avatar of store |
| 8 | registeredDate | Date | N/A | Date that store registered |
| 9 | latitude | String | N/A | Latitude of address in map |
| 10 | longitude | String | N/A | Longitude of address in map |

Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Methods | Parameters | Return | Description |
| 1 | getAllStores | N/A | Array | Get all stores |
| 2 | getOneStore | String | Object | Get one store |
| 3 | postOneStore | Object | Object | Add new Store |
| 4 | deleteStore | Object | int | Delete specific Store |
| 5 | updateStore | Object | Object | Update Store with new information |
| 6 | getAllStoreWithLedger | N/A | Array | Get all stores with ledger information |
| 7 | getStoreDetail | String | Object | Get detail of store |
| 8 | adminGetAllStoreNameAndStoreID | N/A | Array | Get name and id of all stores |

1. Stock

Attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Description |
| 1 | stockID | int | N/A | Unique id of stock |
| 2 | name | String | N/A | Stock’s name |
| 3 | address | String | N/A | Address |
| 4 | adminID | String | N/A | ID of admin who manages the stock |

1. Role

Attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Description |
| 1 | roleID | int | N/A | Unique id of role |
| 2 | roleName | String | N/A | Role’s name |

1. Province

Attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Description |
|  | provinceID | String | N/A | ID of province |
|  | name | String | N/A | Name of province |
|  | type | String | N/A | Type of province |

Method

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Methods | Parameters | Return | Description |
| 1 | getAllProvince | N/A | Array | Get all province |

1. Profile

Attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Description |
|  | username | String | N/A | Unique username of profile |
|  | name | String | N/A | Full name |
|  | identityCard | String | N/A | Identity Card |
|  | address | String | N/A | Address |
|  | DoB | Date | N/A | Date of birth |
|  | email | String | N/A | Email |
|  | avartar | String | N/A | Link of avatar of user |
|  | phoneNumber | String | N/A | Phone number |

Method

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Methods | Parameters | Return | Description |
| 1 | getProfileUser | String | Object | Get profile of user |
| 2 | addNewProfile | Object | Object | Add new profile of user |
| 3 | updateProfile | Object | Object | Update profile with new information |

1. OrderType

Attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Description |
|  | typeID | int | N/A | ID of order’s type |
|  | typeName | String | N/A | Name of type: normal, express,… |
|  | nextAction | String | N/A | Next action of this type |

1. OrderStatus

Attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Description |
|  | statusID | int | N/A | ID of order’s status |
|  | statusName | String | N/A | Name of order’s status: picking up, delivering,… |

14. Order

Attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Description |
|  | orderID | String | N/A | Unique id of orders |
|  | storeID | String | N/A | ID of store |
|  | stockID | int | N/A | ID of stock contains order |
|  | orderTypeID | int | N/A | typeID of orders |
|  | pickUpAddress | String | N/A | Address for picking up order |
|  | deliveryAddress | String | N/A | Address for delivering up order |
|  | pickUpDate | Date | N/A | Date of picking up order |
|  | completeDate | Date | N/A | Date of delivering order |
|  | createDate | Date | N/A | Date of creating order |
|  | recipientPhone | String | N/A | Phone of recipient |
|  | recipientName | String | N/A | Recipient’s Name |
|  | ledgerID | int | N/A | ID of ledger of order |
|  | statusID | int | N/A | ID of order status |
|  | goods | int | N/A | ID of goods |
|  | fee | int | N/A | Fee of order |
|  | CoD | int | N/A | Cash on delivery |
|  | Overweightfee | int | N/A | Fee of overweight |
|  | deliveryProvinceID | int | N/A | ID of province of delivery address |
|  | deliveryDistrictID | int | N/A | ID of district of delivery address |
|  | deliveryWardID | int | N/A | ID of ward of delivery address |

Method

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Methods | Parameters | Return | Description |
| 1 | adminCountAllOrder | N/A | Array | Count number order and fee of all stores |
| 2 | adminCountOrdersDoneOrFail | N/A | Array | Count number of done orders and fail orders of all stores |
| 3 | adminGetMoneyStatisticOrders | N/A | Array | Get total fee and cod of all orders of store |
| 4 | adminGetAllStatisticOrders | N/A | Array | Get number order of store by month, year |
| 5 | countOrder | String | Array | Count order in month or year |
| 6 | updateOrder | String, int | Object | Update order with new information |
| 7 | updateOrderAfterStoreCancel | Object | Object | Update status and fee of order after store cancelled it |
| 8 | updateOrderStatus | Object | Object | Update Status of order |
| 9 | getTodayTotalCoD | N/A | int | Get total cash on delivery today |
| 10 | getTodayTotalDelivery | N/A | int | Get total delivery cost today |
| 11 | shipperGetOneOrder | int, String, String | Object | Get information of shipper take order of specific task |
| 12 | getAllOrder | N/A | Array | Get all order with status, type and store |

15. StoreManage

Method

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Methods | Parameters | Return | Description |
| 1 | get | N/A | Array | Get all stores |
| 2 | postNewStore | N/A | Object | Add new Store to database |
| 3 | put | N/A | Object | Update Store with new information to database |
| 4 | getLatestLedgerOfStore | String | Object | Get latest ledger information of specific store |
| 5 | getAllStoreWithLedger | N/A | Array | Get all stores with information of ledger |
| 6 | getTotalFee | N/A | Array | Get total fee of all stores |
| 7 | getTotalCoD | N/A | Array | Get total cash on delivery of all stores |
| 8 | getLatestAutoAccountDate | N/A | Date | Get latest date of ledger that is added automatically by system |
| 9 | updateLedgerForOrder | int | Object | Update which ledger is paid for order |
| 10 | postNewLedger | Object | Object | Add new ledger (transaction) to database |
| 11 | getStoreName | Array | Array | Get list store’s name by storeid |
| 12 | getStoreDetail | String | Object | Get detail of store by storeid |
| 13 | createStoreOwnerID | N/A | String | Create new username for new store owner |
| 14 | createStoreID | N/A | String | Create new storeid for new store |
| 15 | postNewManageStore | N/A | Object | Add relation of new store’s owner and new Store is managed by this store’s owner to database |
| 16 | getAllLedger | N/A | Array | Get all transaction |
| 17 | getLedgerOfStore | String, Date | Array | Get all ledgers of specific store after specific date |
| 18 | storeGetAllLedger | String | Object | Get all ledgers of specific store |