

ER Model Description

Entities:

- **Credentials- Entity that manages the credentials of user accounts.**
 - **username** - Primary key of the entity; it represents the username of each user account
 - password - User account's password
- **Account - Entity that manages all the user accounts registered on the application. It holds information related to each user.**
 - **aid** - Primary key of the entity; it represents a unique id for each account.
 - **afirst** - User's first name
 - **alast** - User's last name
 - **email** - User's email
 - **{phone}** - User's phone numbers associated to an account
- **Address - Entity that establishes an account as an administrator's account.**
 - **addId** - Primary key of the entity. It represents a unique id for the addresses.
 - **street** - Address street
 - **number** - Address number
 - **unit** - Address unit
 - **zipcode** - Address zipcode
- **City - Entity that establishes all the cities where transactions can take place. It also serves to establish all the cities possible that users can designate as their current city.**
 - **cname** - Primary key of the entity. It represents the name of the city
- **Region - Entity for managing the regions in which suppliers are able to supply resources and requesters are able to request resources.**
 - **rname** - Unique name for each region
- **Supplier- Entity that establishes an account as a supplier account.**
 - **sid** - Primary key of the entity. It references the id of the user's account on the Account entity.

- **Administrator - Entity that establishes an account as an administrator's account.**
 - aid - Primary key of the entity. It references the id of the user's account on the Account entity.
- **Requester - Entity that establishes an account as a requester account.**
 - rid - Primary key of the entity. It references the id of the user's account on the Account entity.
- **Resource - Entity to handle the resources within the application. Suppliers can supply these resource. Each resource can be identified and browsed by several attributes.**
 - rsid - Unique id for each resource
 - **rsname** - Name identifier for each resource
 - **rdescription** - Description for each resource
 - **r_changed_date** - Date on which the resource was last updated
- **Keyword - Entity that establishes an account as an administrator's account.**
 - kid - Primary key of the entity. It represents a unique id for each keyword.
- **Transaction - Entity to handle the transactions within the application. This transaction contains it information and is related to the supplier, requester, resource and bank_account of the transaction.**
 - tid - Unique id for each transaction
 - **tprice** - price supplier ask for the transaction
 - **tqty** - quantity of resource involved in the transaction
 - **tdate** - date the transaction was executed
 - **tstatus** - status of the given transactions
- **Order_Info - Entity to handle the orders within the application This order contain the information that came as a result of all the transactions related to it.**
 - oid - unique id for each order
 - **odate** - date for the order actual status
 - **oprice** - price for the total order
 - **ostatus** - status of the order
- **Payment - Entity to handle the payment method used to pay an order**
 - payid - unique id for the payment

- **Cash - Entity to handle the cash payments**
 - **cashid** - unique id for the cash payment
- **Credit_Card - Entity to handle the credit cards type payments**
 - **cid** - unique id for the credit card payment
 - **card_number** - credit card number
 - **security_code** - credit card security code
 - **ccname** - credit card name
 - **exp_date** - credit card expiration date
- **Bank_Account - Entity to handle the suppliers bank accounts**
 - **bid** - unique bank account id
 - **routing** - routing number
 - **accountNumber** - account number for the bank account
 - **BankName** - bank name

Relationships

- **Supplies - Relationship between supplier and resource. It is created when a supplier supply a resource. This is useful in order to find who supply a resource or what supply a supplier.**
 - **rqty** - quantity of the supply
 - **rprice** - price of the supply
 - **r_supply_date** - date the resource was supplied