

CSC 4300
Fall 2009
Project Functions

Brian Bell
Robert Firth
Brad Johnston
Sean O'Connell
Carletria Wheeler

Name	Description
CreateOrganization	Creates a new Organizations record in the database.
CreateContact	Creates a new Contacts record in the database with an associated Organization .
CreateProduct	Creates a new Products record in the database with an associated Organization .
CreateCustomer	Creates a new Customers record in the database.
CreateSale	Creates a new Sales record in the database with an associated Customer and Product .
CreateProductCategory	Creates a new ProductsCategories record in the database.
CreateProductCause	Creates a new ProductsCauses record in the database.
ListOrganizations	Retrieves all Organizations in the database.
ListProducts	Retrieves all Products associated with a given Organization .
ListContacts	Retrieves all Contacts associated with a given Organization .
ListSales	Retrieves all Sales associated with a given Organization .
ListCustomers	Retrieves all Customers associated with a given Organization or Product .
SearchProducts	Searches all Products records in the database with a given search criteria.
AuthenticateUser	Authenticates a given Users login credentials.
GenerateSalesReport	Generates a sales report for a given Organization or Product and date range.

Function: **CreateOrganization**

Parameters: *Name* The name of the Organization to be created.
Address The address of the Organization.
Website The website url for the Organization.

Output: *A new database record in Organizations table.*

Function: **CreateContact**

Parameters: *Name* The name of the Contact to be created.
Email The email address of the Contact.
Password The password used for login authentication.

Output: *A new database record in Contacts table.*

Function: **CreateProduct**

Parameters: *Name* The name of the Product to be created.
Description A brief description of the Product.
Category The Product category to place the Product in.
Cause The Product cause to place the product in.
Price The price of the Product.

Output: *A new database record in Products table.*

Function: **CreateCustomer**

Parameters: *Name* The name of the Customer to be created.
Address The address of the Customer.
Phone The phone number of the Customer.
Email The email address of the Customer.
Password The password used for login authentication.

Output: *A new database record in Customers table.*

Function: **CreateSale**

Parameters: *Date* The date of the Sale.
Product The Product being purchased.
Customer The Customer purchasing the Product.
Quantity The quantity of the Product being purchased.
TotalPrice The total price of the Sale.

Output: *A new database record in Sales table.*

Function: **CreateProductCategory**

Parameters: *Name* The name of the Category to be created.
Description A description of the Category.

Output: *A new database record in Categories table.*

Function: **CreateProductCause**

Parameters: *Name* The name of the Cause to be created.
Description A description of the Cause.

Output: *A new database record in Causes table.*

Function: **ListOrganizations**

Parameters: *None*

Output: *A list of Organizations existing in the database.*

Function: **ListProducts**

Parameters: *Organization* A specific Organization to search by.
Category A specific Product Category to search by.
Cause A specific Product Cause to search by.

Output: *A list of Products matching the given search criteria..*

Function: **ListContacts**

Parameters: *Organization* A specific Organization to search by.

Output: *A list of Contacts belonging to specified Organization.*

Function: **ListSales**

Parameters: *Organization* A specific Organization to search by.
Product A specific Product to search by.
Customer A specific Customer to search by.

Output: *A list of Sales matching the given search criteria.*

Function: **ListCustomers**

Parameters: *Organization* A specific Organization to search by.
Product A specific Product to search by.

Output: *A list of Customers matching the given search criteria.*

Function: **SearchProducts**

Parameters: *Organization* A specific Organization to search by.
Keywords A specific set of keywords to search by.

Output: *A list of Products matching the given search criteria.*

Function: **AuthenticateUser**

Parameters: *Email* A user's email address.
Password A user's password.

Output: *True if success; else False.*

Function: **GenerateSalesReport**

Parameters: *Organization* A specific Organization to generate report from.
Product A set of Product(s) to generate report from.
DateRange A specific date range to generate from.

Output: *Sales records pertaining to given parameters.*