Data items

Name	Description
Product	The product will represent a sellable item within the store.
Cart	A collection of products queued for a purchase.
Transaction	Any purchase by the customer or refund by the seller.
Account	A collection of information about an individual customer, seller, or website administrator.
Receipt	An account of a past purchase, even if it has been refunded.
Company	An individual company who is selling a product on the website.
Templates	A grouping of pre-made web designs that allows sellers to customize their portion of the website.
Reports	Information relating to the sales of the website, including tax information.
Taxes	Information regarding the tax rates for each company so that proper taxing can be completed.
Payment	A fiscal transaction to purchase a cart within the software.
Donations	A fiscal transaction given to HOPE or another charity.
Report Parameters	A parameter used when querying the database for statistics about the sales data.

Major Functions

Name	Description
Add to cart	Add a product to the cart.
Remove from cart	Remove a product from the cart.
Purchase cart	Purchase items within a cart.
Process transaction	Process the transaction, send company information about sale, and charge amount of the purchase to customer.
View product	View information about a product to be sold.
Remove product	Remove the product from the store.
Add product	Add a product to the store
View report	View statistics on the sales from the store.
Edit report	Edit parameters of the statistics
Delete report	Remove a report from the database.
Add account	Add an account to purchase items
Edit account	Edit an account
Remove account	Remove the account from the database
Send donation	Give a donation to a company
Get receipt	Find the receipt of a purchase

Add tax rate	Add a tax rate for a company for accurate tax charging purposes.
Edit tax rate	Edit a tax rate for a company
Remove tax rate	Remove a tax rate for a company
Add template	Add a HTML template for company pages on the website
Edit template	Edit a HTML template for company pages on the website
Remove template	Remove a HTML template
Add company	Add a seller to the website
Edit company	Edit a seller on the website
Remove company	Remove a seller on the website
View by cause	View products by cause
View by category	View products by category
View by company	View products by company

Name	Input	Output
Add to cart	Array of Products	Cart
Remove from cart	Product	Cart
Purchase cart	Cart	Transaction
Process transaction	Transaction	Receipt
View product	Product ID	Product
Remove product	Product	null
Add product	Product, Company	null
View report	Report parameters	Report
Edit report	Report, Report parameters	Report
Delete report	Report	null
Add account	Account Information	Account
Edit account	Account, Account Information	Account
Remove account	Account	Null
Send donation	Donation	Transaction
Get receipt	Transaction	Receipt
Add tax rate	Tax Rate Information	Tax Rate
Edit tax rate	Tax Rate	Tax Rate
Remove tax rate	Tax Rate	Null
Add template	Template source code	Template
Edit template	Template	Template
Remove template	Template	Null
Add company	Company Information	Company

Edit company	Company	Company
Remove company	Company	Null
View by cause	Cause information	Array of products
View by category	Category information	Array of products
View by company	Company	Products