

# Senior Project in Information Systems

---

*INFO-465-901 : VCU Business IS Degree*

*Presented By : Kenneth Carbaugh [V70252049]*

## *Table of Contents:*

Project Overview.....	3
Executive Summary.....	3
Exclusions.....	3
Constraints .....	3
Use Case Diagram .....	4
Use Case Index .....	5
Use Case Details .....	5
Class Diagram.....	12
Database Entity Relationship Diagram .....	13
Data Dictionary .....	14
Sample Table Data .....	16
auth_user .....	16
hort_customer .....	17
hort_goodandservices .....	18
hort_orders .....	19
hort_details.....	20
hort_ledgeracct.....	21
Daily Journal Entries and Trial Balance .....	22
Appendix .....	23
Project Folders   ... <i>"hort" application files</i> .....	23
Screen Shots      ... <i>sample pages to date</i> .....	24

## Project Overview

### Executive Summary

The project case is a landscaping small business *web enabled prototype* application that assists with various tasks associated with running the business. Primary features include:

- Managing customers and users
- Managing goods and services
- Placing orders with G&S details
- Tendering orders (cash only) and recording balancing entries
- Basic general ledger accounting and trial balance report

The business is configured as having a limited partner, manager/partner, crew lead, and helper. Application access for manager and crew lead is required. Access for customer is demonstrated, but limited and not automatic (i.e. if loading customers from a file).

### Exclusions

The following business features are not implemented:

- Accounts Receivable
- Accounts Payable
- Payroll or other HR functionality
- Closing The Books
- Self Registration and Self Account Management

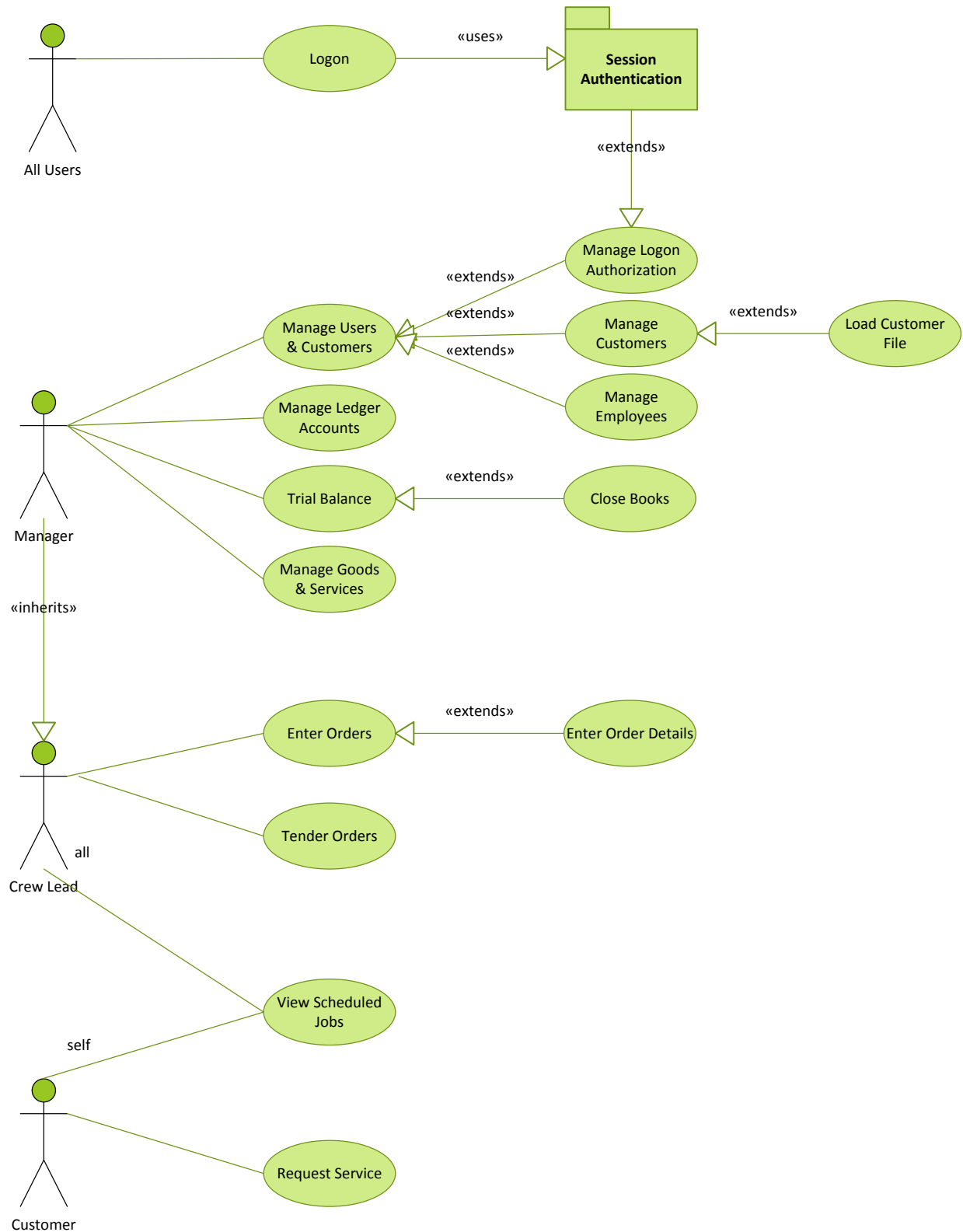
Other features will be updated as In/Out of Scope in the [Use Case Index](#) below.

### Constraints

Project constraints include:

- Available time
- "The Accounting is Job #1!"
- Database file **KCspr16eve.sqlite3** is sufficient for prototyping, but should be upgraded in production

## Use Case Diagram



## Use Case Index

ID	Name	Primary Actor	Scope	Complexity	Priority
UC-1.0	Logon	All Users	In	Med	High
UC-2.0	Manage Users & Customers	Manager	In	Med	High
UC-2.1	Manage Logon Authorization	Manager	In	Med	Med
UC-2.2	Manage Customers	Manager	In	Med	High
UC-2.3	Load Customer File	Manager	Out	High	Low
UC-2.4	Manage Employees	Manager	In	Med	High
UC-3.0	Manage Ledger Accounts	Manager	Out	Low	Low
UC-4.0	Trial Balance	Manager	In	Med	High
UC-4.1	Close Books	Manager	Out	High	Med
UC-5.0	Manage Goods & Services	Manager	In	Med	High
UC-6.0	Enter Orders	Manager	In	Med	High
UC-6.1	Enter Order Details	Manager	In	High	High
<del>UC-7.0</del>	<del>Fulfill Orders</del>	<del>Crew Lead</del>	<del>Out</del>	<del>Med</del>	<del>Med</del>
UC-8.0	Tender Orders	Manager	In	High	High
UC-9.0	View Scheduled Jobs	Crew Lead	In	Med	Med
UC-10.0	Request Service	Customer	Out	Med	Low

## Use Case Details

Use Case ID	UC-1.0
Name	Logon
Description	Web application and session logon
Actors	All Users
Precondition	User is added to the <b>auth_user</b> table (see ERD). User previous session is deleted or user logout.
Trigger	URL link to web application (e.g. http://127.0.0.1:8080/hort/*)
Basic Flow	<ol style="list-style-type: none"> <li>1. Enter username</li> <li>2. Enter password</li> <li>3. Click Next</li> <li>4. Present application menu</li> </ol>
Alternate Flows	<p>Entry of bad values: Please enter a correct username and password. Note that both fields may be case-sensitive.</p> <p>Click Next with no data: This field is required.</p> <p>Click Cancel: application header &amp; login buttons</p>

Use Case ID	UC-2.0
Name	Manage Users & Customers
Description	Umbrella case for managing web application users and customer
Actors	Manager
Precondition	None
Trigger	Add or update customers, employees, and stakeholders
Basic Flow	<ol style="list-style-type: none"> <li>1. Click <u>View &amp; Edit Customers</u> menu link <ol style="list-style-type: none"> <li>a. If <b>hort_customer</b> table entries, then a list of customers is presented</li> <li>b. Otherwise: No customers are available.</li> </ol> </li> <li>2. Add Cust (manual) button: see <b>Manage Customers</b> use case</li> <li>3. Update Customer:</li> </ol>

	<ol style="list-style-type: none"> <li>a. Click <u>CustID</u> link in list to update</li> <li>b. see <b>Manage Customers</b> use case</li> </ol> <ol style="list-style-type: none"> <li>4. Load Cust (file) button: see <b>Load Customer File</b> use case</li> </ol>
Alternate Flows	None

Use Case ID	UC-2.1
Name	Manage Logon Authorization
Description	A sub-case of Manage Users & Customers to enable web application Logon
Actors	Manager
Precondition	None
Trigger	User requires or request web application access
Basic Flow	<p>Click <u>Logon Access</u> checkbox in <b>Manage Customers</b> add/update form:</p> <ol style="list-style-type: none"> <li>1. Enter username</li> <li>2. Enter password</li> <li>3. <b>auth_user</b> table is updated on form Submit</li> </ol>
Alternate Flows	<p>The <b>auth_user</b> table may be updated independently of Manage Customer use case via the built-in Django site admin page:</p> <ol style="list-style-type: none"> <li>1. Logout or navigate to <a href="http://127.0.0.1:8080/hort/login/">http://127.0.0.1:8080/hort/login/</a></li> <li>2. Click the Site Admin button on the far right header</li> <li>3. Superuser credentials are required.</li> <li>4. REF: <a href="https://docs.djangoproject.com/en/1.9/ref/contrib/admin/">https://docs.djangoproject.com/en/1.9/ref/contrib/admin/</a></li> </ol> <p>NOTE: Currently, only admin site Users authentication is implemented. If this proof-of-concept is productionized, a more robust authorization and group access mechanism should be implemented.</p>

Use Case ID	UC-2.2
Name	Manage Customers
Description	Entry of customer and user accounts that must be tracked in the <b>Enter Orders</b> accounting sub-system
Actors	Manager
Precondition	None
Trigger	<p>Request for service [Relationship == "CUS"]  Supplier PO [Relationship == "SUP"]  Employee hire [Relationship== "EMP"]  Equity investor [Relationship in ("INV", "OWN")]</p>
Basic Flow	<ol style="list-style-type: none"> <li>1. Click <u>View &amp; Edit Customers</u> menu link</li> <li>2. If <b>hort_customer</b> table entries, then a list of customers is presented <ol style="list-style-type: none"> <li>a. Otherwise: No customers are available.</li> </ol> </li> <li>3. Adding Customer / User: <ol style="list-style-type: none"> <li>a. Click the <u>Add Cust (manual)</u> button</li> <li>b. CustID is internal mnemonic identifier, typically &lt;first_initial&gt;&lt;number&gt;&lt;last_initial&gt;, is created by Actors (not system), and must be unique.</li> <li>c. A sequential row <b>id</b> is automatically added behind the scenes on form Submit.</li> <li>d. Enter information and relationship.</li> <li>e. Login authorization: see <b>Manage Logon Authorization</b> use case</li> <li>f. If Employee: <ol style="list-style-type: none"> <li>i. Set Relationship to "Employee"</li> </ol> </li> </ol> </li> </ol>

	ii. See <b>Manage Employees</b> use case g. Click Submit button 4. Updating Customer / User a. Click on the <u>CustID</u> link b. Update information as needed c. Click Submit button 5. Customer / User list is now available to subsequent use cases
Alternate Flows	Duplicating a CustID will results in no customer being added. An error handler should be added for production implementation.

Use Case ID	UC-2.3
Name	Load Customer File
Description	Bulk load of customer fields
Actors	Manager
Precondition	File layout is mapped to <b>hort_customer</b> table columns and placed in the default location
Trigger	None
Basic Flow	1. Click Load Cust (file) button on Customer List page 2. Enter filename to load 3. Click OK a. Duplicate rows are not loaded b. Blank and header rows are not loaded c. No application Logon access is provided - this must be manually provisioned 4. On completion, a status summary is presented
Alternate Flows	Depending on the frequency of this action, it may make more sense to simply run a separate database load job.

Use Case ID	UC-2.4
Name	Manage Employees
Description	A sub-case of Manage Users & Customers to set up Employees
Actors	Manager
Precondition	Relationship = "Employee" in <b>Manage Customers</b> use case.
Trigger	None
Basic Flow	If application Logon is needed, execute <b>Manage Logon Authorization</b> use case. Add employee rates via the <b>Manage Goods &amp; Services</b> use case. For example: <ul style="list-style-type: none"> <li>• <b>Description:</b> Crew Mgr (per hr)</li> <li>• <b>Class:</b> Svcs</li> <li>• <b>LedgerIn:</b> 5010 - Cost of Services Sold</li> <li>• <b>Cost:</b> 25.00</li> <li>• <b>LedgerOut:</b> 5010 - Cost of Services Sold</li> <li>• <b>Price:</b> 50.00</li> <li>• etc.</li> </ul>
Alternate Flows	None

Use Case ID	UC-3.0
Name	Manage Ledger Accounts
Description	Enter ledger account numbers and description
Actors	Manager

Precondition	Vetted chart of accounts
Trigger	
Basic Flow	<ol style="list-style-type: none"> <li>1. Click <u>Ledger Accounts</u> menu link</li> <li>2. If <b>hort_ledgeraccount</b> table entries, then a Ledger Account List is presented <ol style="list-style-type: none"> <li>a. Otherwise: No ledger accounts are available.</li> </ol> </li> <li>3. New Account button: <ol style="list-style-type: none"> <li>a. Enter account number</li> <li>b. Enter account description</li> <li>c. Click Submit</li> <li>d. The new account should appear in the Ledger Account List</li> </ol> </li> <li>4. Update Ledger Account (link): <ol style="list-style-type: none"> <li>a. Click <u>LedgerAcctNum</u> in list to update</li> <li>b. Update description</li> <li>c. Click Submit</li> <li>d. The updated description should appear in the Ledger Account List</li> </ol> </li> </ol>
Alternate Flows	Load chart of accounts from file to <b>hort_ledgeraccount</b> table. This was done in this prototype to facilitate data entry of Goods & Services.

Use Case ID	UC-4.0
Name	Trial Balance
Description	Take existing Enter Orders and Enter Order Details and perform a debit vs. credit accounting trial balance
Actors	Manager
Precondition	Equity and goods and services orders must be entered
Trigger	Any time a balance report is desired
Basic Flow	<ol style="list-style-type: none"> <li>1. Click on <u>Trial Balance</u> menu link</li> <li>2. A balance report for <i>un-closed</i> Order Details is presented</li> <li>3. Click on <u>Home</u> button to return to main menu</li> </ol>
Alternate Flows	None

Use Case ID	UC-4.1
Name	Close Books
Description	Closes all <i>fulfilled</i> orders for the accounting period and submits to PSX12
Actors	Manager
Precondition	None
Trigger	Accounting period end date
Basic Flow	<ol style="list-style-type: none"> <li>1. Click on <u>Close Books</u> menu link</li> <li>2. Choose accounting period</li> <li>3. Click Submit</li> <li>4. View / save transmittal report</li> <li>5. Click on <u>Home</u> button to return to main menu</li> </ol>
Alternate Flows	None

Use Case ID	UC-5.0
Name	Manage Goods & Services
Description	Enter goods and services for sale
Actors	Manager



Precondition	A good or service is available from the business or supplier
Trigger	A good or service is required for Order Entry
Basic Flow	<ol style="list-style-type: none"> <li>Click <u>Goods and Services</u> menu link <ol style="list-style-type: none"> <li>If <b>hort_goodsandservices</b> table entries, then a Goods &amp; Services List is presented</li> <li>Otherwise: No goods or services are available.</li> </ol> </li> <li>Add Good/Service button: <ol style="list-style-type: none"> <li>Enter required fields: <ol style="list-style-type: none"> <li>Class has accounting impact: <ul style="list-style-type: none"> <li>Good ...<i>a physical good available from a supplier</i></li> <li>Svcs ...<i>a service provided by this business</i></li> <li>Acct ...<i>an internal accounting item, eg. equity or wages</i></li> </ul> </li> <li>Ledger<b>In</b> is the purchase Ledger Account (debit)</li> <li>Cost is the wholesale cost or agreed supplier price</li> <li>Ledger<b>Out</b> is the sale Ledger Account (credit)</li> <li>Price is price charged to Customers</li> </ol> </li> <li>Click Submit</li> <li>The entry should appear in the Goods &amp; Services List</li> </ol> </li> <li>Update Good/Service (link): <ol style="list-style-type: none"> <li>Click <u>Description</u> in list to update</li> <li>Update fields as needed</li> <li>Click Submit</li> <li>The updated entry should appear in the Goods &amp; Services List</li> </ol> </li> </ol>
Alternate Flows	For production use, deleting a good or service should only be allowed if it has no Order Details entries. Marking the records as "deleted" for presentation and drop downs only is the recommended approach.

Use Case ID	UC-6.0
Name	Enter Orders
Description	Enter all accounting line items: sales, purchases, payroll, and equity
Actors	Manager, Crew Lead
Precondition	Customer data is entered as needed
Trigger	Sales or Purchase order
Basic Flow	<ol style="list-style-type: none"> <li>Click <u>Customer Order Entry</u> menu link <ol style="list-style-type: none"> <li>If <b>hort_orders</b> table entries, then the Open Orders are presented</li> <li>Otherwise: No orders are available.</li> </ol> </li> <li>New Order button: <ol style="list-style-type: none"> <li>Enter required fields: <ol style="list-style-type: none"> <li>Type: "Sale" or "Purchase"</li> <li>Status: "Open"</li> <li>EnteredBy: <b>auth_user</b> pick list</li> <li>OrdersCustID: <b>hort_customer</b> pick list</li> </ol> </li> <li>Enter optional fields, for example: <ol style="list-style-type: none"> <li>PONumber: text</li> <li>OrderNotes: text</li> </ol> </li> <li>Click Submit</li> <li>The entry should appear in the Open Orders List</li> </ol> </li> <li>Update Open Order (link): <ol style="list-style-type: none"> <li>Click <u>CustID - PO</u> in list to update</li> <li>Update fields as needed</li> <li>Click Submit</li> </ol> </li> </ol>

	<p>d. The updated entry should appear in the Goods &amp; Services List</p> <p>4. Go to <b>Enter Order Details</b> use case</p> <p>NOTE: The InOrOut field on the Enter Orders use case indicates whether the Order Details Cost is incurred as a debit (1) or credit (-1).</p> <p>NOTE: The Type field is used to map the LedgerAcctNum in the accounting sub-system:</p> <ul style="list-style-type: none"> <li>• Purchase → LedgerIn</li> <li>• Sale → LedgerOut</li> </ul>
Alternate Flows	A separate accounting system may be desirable for financial and payroll management.

Use Case ID	UC-6.1
Name	Enter Order Details (from Open Orders list)
Description	Order line item detail entry of goods and services
Actors	Manager, Crew Lead
Precondition	An existing order - see <b>Enter Orders</b> use case
Trigger	None (entering a detail line item on an Order is not required)
Basic Flow	<ol style="list-style-type: none"> <li>1. Click the "&gt;" button in the Items column of an Order in the list</li> <li>2. The Order Header is displayed based on the order Type: <ol style="list-style-type: none"> <li>a. "P" ...<i>Purchase</i></li> <li>b. "S" ...<i>Sale</i></li> </ol> </li> <li>3. The Customer Info is displayed based on the OrdersCustID</li> <li>4. Add Line Item button: <ol style="list-style-type: none"> <li>a. Enter required fields: <ol style="list-style-type: none"> <li>i. DetailBy: <b>auth_user</b> table pick list</li> <li>ii. GSID: <b>hort_goodsandservices</b> table pick list (description)</li> <li>iii. QtyOrdered: number</li> </ol> </li> <li>b. Enter optional fields (supports <b>View Scheduled Jobs</b> use case) <ol style="list-style-type: none"> <li>i. ScheduledStartDt: datetime</li> <li>ii. ScheduledCompleteDt: datetime</li> </ol> </li> <li>c. Click Submit</li> <li>d. The entry is added to the Line Items</li> </ol> </li> <li>5. Update Line Item (link) <ol style="list-style-type: none"> <li>a. Click the <u>Description</u> link</li> <li>b. Update fields as needed</li> <li>c. Click Submit</li> <li>d. The updated entry should appear in the Line Items</li> </ol> </li> <li>6. Remove Line Item (icon) <ol style="list-style-type: none"> <li>a. Click on the trash can icon</li> <li>b. The item is removed from the Line Items</li> </ol> </li> <li>7. Tender button: see <b>Tender Orders</b> use case</li> </ol>
Alternate Flows	None

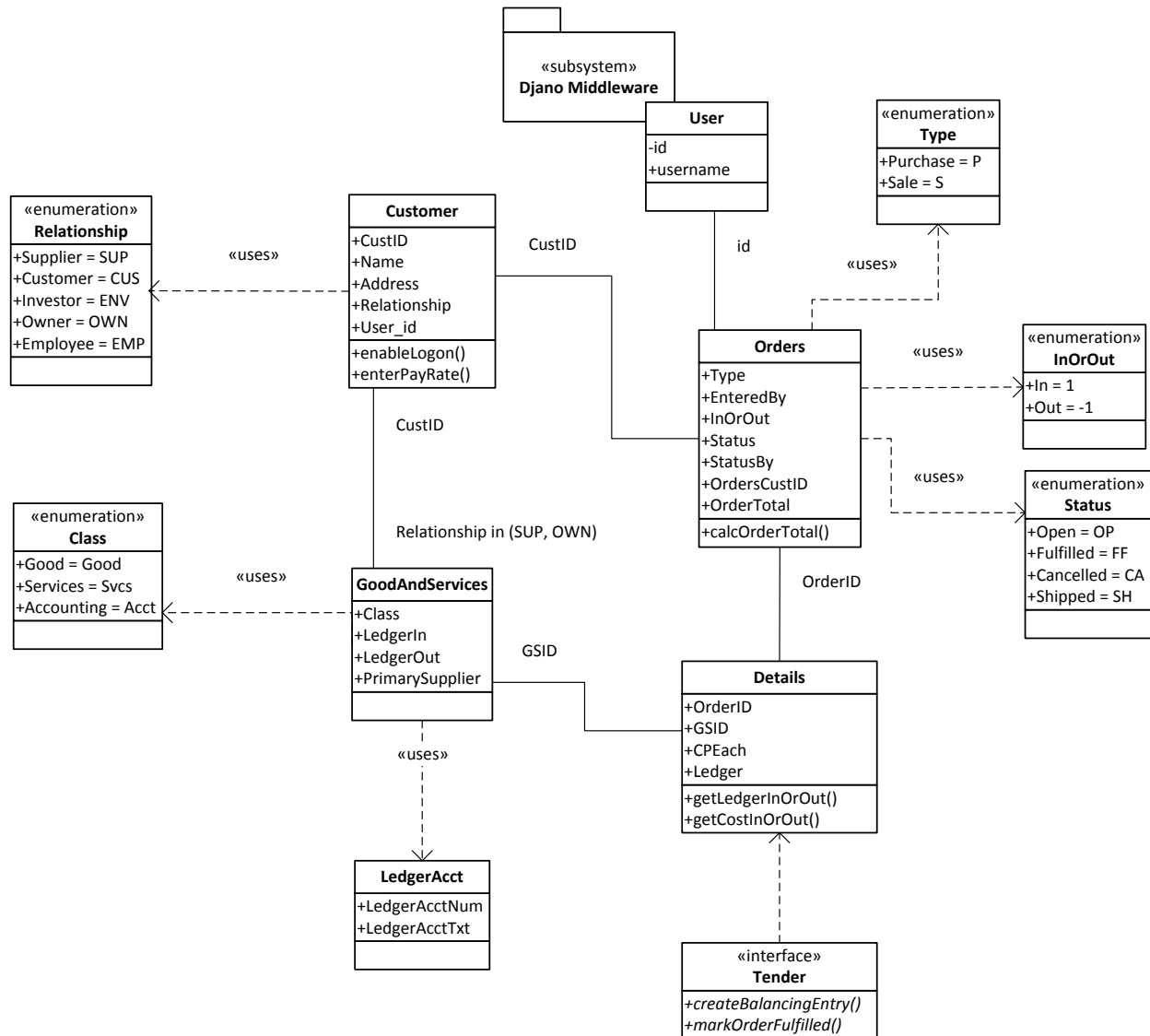
Use Case ID	UC-8.0
Name	Tender Orders
Description	Record payment for open orders

Actors	Manager, Crew Lead
Precondition	Open order entry is completed
Trigger	None
Basic Flow	<ol style="list-style-type: none"> <li>1. Click the "\$" button in the Tender column of the Open Orders list screen (accessible from the main menu <u>Customer Order Entry</u> link)</li> <li>2. In the proof-of-concept: <ol style="list-style-type: none"> <li>a. It is assumed the entire Order will be posted (marked as fulfilled)</li> <li>b. Status date and notes are entered as needed</li> <li>c. Actor will be prompted for a LedgerAcctNum to post a balancing entry - for Sales, this will typically be "1000 - Cash"</li> <li>d. Accounting calculations will occur behind the scenes</li> <li>e. The order will disappear from the Open Orders list</li> </ol> </li> </ol>
Alternate Flows	None

Use Case ID	UC-9.0
Name	View Scheduled Jobs
Description	Display and optionally print open service jobs
Actors	Crew Lead, Manager, Customer
Precondition	None
Trigger	None
Basic Flow	<ol style="list-style-type: none"> <li>1. Crew Lead, Manager: <ol style="list-style-type: none"> <li>a. View all open jobs for a date range</li> <li>b. Print out a job sheet showing: <ol style="list-style-type: none"> <li>i. Customer name and address</li> <li>ii. Order Details</li> <li>iii. Total Amount Due</li> </ol> </li> </ol> </li> <li>2. Customer: <ol style="list-style-type: none"> <li>a. View only my open, scheduled service orders</li> </ol> </li> </ol>
Alternate Flows	None

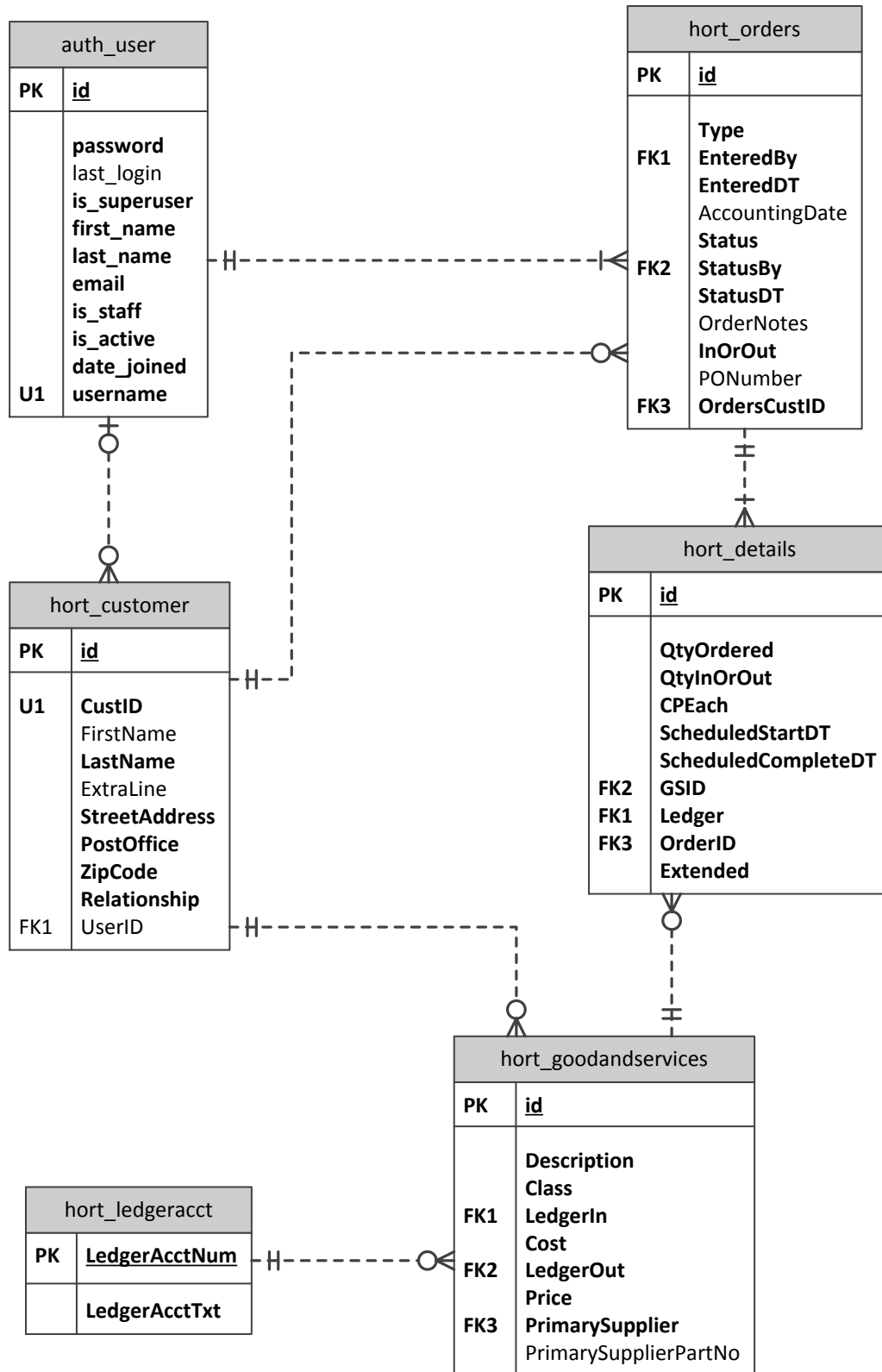
Use Case ID	UC-10.0
Name	Request Service
Description	Online requests for services
Actors	Customer
Precondition	Customer is granted Logon access - see Manage Logon Authorization use case
Trigger	None
Basic Flow	<ol style="list-style-type: none"> <li>1. Click <u>Request Service</u> link on main menu</li> <li>2. Enter RequestedByDt</li> <li>3. Enter notes about requested services</li> <li>4. Enter call back PhoneNumber</li> <li>5. Click Submit</li> <li>6. An email notification will be sent after Manager review and acceptance of request</li> </ol>
Alternate Flows	None

## Class Diagram



NOTE: only those attributes needed for relations or enumerations are shown above. For all table attributes, refer to the [Database Entity Relationship Diagram](#).

## Database Entity Relationship Diagram



## Data Dictionary

Field Name	Data Type	Len	Req	Cons	Description
<b>auth_user</b>					
id	Integer		Y	PK	Automatic identifier
password	Varchar	128	Y		8 character min
last_login	Datetime		N		Not implemented
is_superuser	Boolean		Y		Default=False
first_name	Varchar	30	Y		User's first name
last_name	Varchar	30	Y		User's last name
email	Varchar	254	Y		User's email
is_staff	Boolean		Y		Default=False
is_active	Boolean		Y		Default=True
date_joined	Datetime		Y		Date user was added to authorization table
username	Varchar	30	Y	UI	Unique nickname for user
<b>hort_customer</b>					
id	Integer		Y	PK	Automatic identifier
CustID	Varchar	20	Y	UI	Internal alpha-numeric mnemonic identifier
FirstName	Varchar	50	N		Customer's first name, if applicable
LastName	Varchar	50	Y		Customer's last name or business name
ExtraLine	Varchar	75	N		Customer's street address line 2
StreetAddress	Varchar	75	Y		Customer's street address line 1
PostOffice	Varchar	50	Y		Postal "city, state" - not validated.
ZipCode	Varchar	10	Y		Postal code "nnnnn" or "nnnnn-nnnn"
Relationship	Varchar	3	Y		Customer = "CUS" Supplier = "SUP" Employee = "EMP" Investor = "INV" Owner = "OWN"
User_id	Integer		N	FK	Optionally add to the <b>auth_user</b> table
<b>hort_details</b>					
id	Integer		Y	PK	Automatic identifier
QtyOrdered	Decimal	14,4	Y		Quantity of good or service ordered
QtyInOrOut	Decimal	14,4	Y		Calculated field for accounting: Details.QtyOrdered * Orders.InOrOut
CPEach	Decimal	14,4	Y		Cost per each from <b>hort_goodandservices</b> table - relative to Orders.InOrOut value (may be overridden)
ScheduledStartDT	Datetime		N		Scheduled service expected start date
ScheduledCompletionDt	Datetime		N		Scheduled service expected completion date
GSID	Integer		Y	FK	Link to <b>hort_goodandservices</b> item id
Ledger	Integer		Y	FK	LedgerAcctNum in <b>hort_goodandservices</b> table - relative to Orders.InOrOut value
OrderID	Integer		Y	FK	Link to <b>hort_orders</b> parent id
Extended	Decimal	14,4	Y		Calculated field for accounting: QtyInOrOut * CPEach

Field Name	Data Type	Len	Req	Cons	Description
<b>hort_goodandservices</b>					
id	Integer		Y	PK	Automatic identifier
Description	Varchar	50	Y		
Class	Varchar	12	Y		GOOD = 'Good' SERVICES = 'Svcs' ACCOUNTING = 'Acct'
LedgerIn	Integer		Y		LedgerAccNum - use this on Details.Ledger if Orders.InOrOut = "IN"
Cost	Decimal	14,4	Y		The service or good wholesale cost
LedgerOut	Integer		Y		LedgerAccNum - use this on Details.Ledger if Orders.InOrOut = "OUT"
Price	Decimal	14,4	Y		The service of good retail price
PrimarySupplier	Varchar	50	Y		Lookup on <b>hort_customer</b> table where Relationship in ("SUP", "OWN")
PrimarySupplierPartNo	Varchar	20	N		Supplier SKU or part number if applicable
<b>hort_ledgeracct</b>					
LedgerAcctNum	Integer		Y	PK	Chart of accounts 4 digit account number
LedgerAcctNum	Varchar	50	Y		Chart of accounts account description
<b>hort_orders</b>					
id	Integer		Y	PK	Automatic identifier
Type	Varchar	10	Y		PURCH = 'P' SALE = 'S'
EnteredBy	Integer		Y	FK	Link to <b>auth_user</b> table row id - displays username
EnteredDT	Datetime		Y		Order entry create date and time - manual
AccountingDate	Date		N		Accounting date for trial balances
OrderNotes	Text		N		Textual notes about the order for Crew Lead
Status	Varchar	10	Y		OPEN = 'OP' FULLFILLED = 'FF' CANCELLED = 'CA' SHIPPED = 'SH'
StatusBy	Integer		Y	FK	Link to <b>auth_user</b> table row id - displays username
StatusDT	Datetime		Y		Order entry update date and time - manual
InOrOut	Integer		Y		IN = 1 OUT = -1
OrdersCustID	Integer		Y	FK	Link to Customer.CustID
PONumber	Varchar	20	N		Optional internal or external purchase order number - no validation

## Sample Table Data

Physical tables are generated from the application's **models.py** file (as in model-view-controller or MVC pattern) which holds Django Python classes that define attributes and methods. The file is then "migrated" to a SQLite (<https://www.sqlite.org/>) file database which is bundled with Django. The resulting physical tables have the following prefixes:

- "auth" ...Django authorization middleware enables login via password
- "hort" ...from "horticulture" – the art or practice of garden cultivation and management – which is what the implemented web application is about

That said, the resulting DML is ANSI compliant, portable, and provided below each table heading. Django models may be integrated with more robust, commercial database as required.

### auth\_user

```
CREATE TABLE "auth_user" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "password"
varchar(128) NOT NULL, "last_login" datetime NULL, "is_superuser" bool NOT NULL, "first_name"
varchar(30) NOT NULL, "last_name" varchar(30) NOT NULL, "email" varchar(254) NOT NULL, "is_staff"
bool NOT NULL, "is_active" bool NOT NULL, "date_joined" datetime NOT NULL, "username" varchar(30)
NOT NULL UNIQUE);
```

	A	B	C	D	E	F	G	H	I	J	K
1	<b>auth_user</b>										
2	<b>id</b>	<b>password</b>	<b>last_login</b>	<b>is_superuser</b>	<b>first_name</b>	<b>last_name</b>	<b>email</b>	<b>is_staff</b>	<b>is_active</b>	<b>date_joined</b>	<b>username</b>
3	1	<SHA256>	2/14/16	0	Ken	Carbaugh	none	0	1	2/13/16	ken
4	2	<SHA256>	3/27/16	1			none	1	1	2/13/16	admin
5	3	<SHA256>		0	Bob	Manager	none	0	1	2/13/16	mgr
6	4	<SHA256>	2/29/16	0	J.	Crew	none	0	1	2/13/16	crew
7	5	<SHA256>		0	Joe	Customer	none	0	1	2/13/16	cust



## hort\_customer

```
CREATE TABLE "hort_customer" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "CustID"
varchar(20) NOT NULL, "FirstName" varchar(50) NOT NULL, "LastName" varchar(50) NOT NULL,
"StreetAddress" varchar(75) NOT NULL, "ExtraLine" varchar(75) NOT NULL, "PostOffice" varchar(50) NOT
NULL, "ZipCode" varchar(10) NOT NULL, "Relationship" varchar(3) NOT NULL, "User_id" integer NOT
NULL);
```

	A	B	C	D	E	F	G	H	I	J
1	hort_customer									
2	id	CustID	FirstName	LastName	StreetAddress	ExtraLine	PostOffice	ZipCode	Relationship	User_id
3	1	J1818J	Joseph	Jenkins	304 Bay Vista Ave	HI THERE	Richmond, VA	23233	CUS	0
4	2	L2018M	Mrs Jean	Lelievre	3713 Torrey Pines Blvd		Sarasota, FL	34238	CUS	0
5	3	V1938M	Margaret	Videkyo	8212 Redberry Ln		Sarasota, FL	34231	CUS	0
6	4	B1781J	ffffff	Bowser	1102 Botetourt Gardens	Lesser Concourse	Richmond, VA	23228	CUS	0
7	5	H1532E	Edward	Hardison	2409 Sedgewick Dr		Hampton, VA	23669	CUS	0
8	6	S1717J	James	Strauss	7320 Blockhouse Rd		Norfolk, VA	23513	CUS	0
9	20	R1111Z	Robert	Zamboni	some street	this is an extra line :-)	some town	99999-9999	CUS	0
10	21	J1234I	Joe	Vestor	100 Money Buckets Blvd		New York, NY	12345	INV	0
11	22	W1234W		Weedy Wackers Inc.	287 Green Way		Durham, NC	25347	SUP	0
12	23	G1111L		Guill's Landscaping	2019 Lawn Mower Ln		Dinwiddie, VA	20314	OWN	0
13	24	S1245G		Smitty's Garden Supply	2085 Evergreen Way		Petersburg, VA	23567	SUP	0
14	25	J0000C	Joe	Customer	12 My Way		Henrico, VA	23238	CUS	5
15	26	K9999C	Mister	Manager	2019 Lawn Mower Ln		Dinwiddie, VA	20314	OWN	3
16	27	C9999L	Crew	Leader	2019 Lawn Mower Ln		Dinwiddie, VA	20314	EMP	4
17	28	C9999H	Crew	Helper	2019 Lawn Mower Ln		Dinwiddie, VA	20314	EMP	1

## hort\_goodandservices

CREATE TABLE "hort\_goodandservices" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "Description" varchar(50) NOT NULL, "Class" varchar(12) NOT NULL, "LedgerIn" integer NOT NULL, "Cost" decimal NOT NULL, "LedgerOut" integer NOT NULL, "Price" decimal NOT NULL, "PrimarySupplierPartNo" varchar(20) NOT NULL, "PrimarySupplier" varchar(50) NOT NULL);

	A	B	C	D	E	F	G	H	I
1		<b>hort_goodandservices</b>							
2	<b>id</b>	<b>Description</b>	<b>Class</b>	<b>LedgerIn</b>	<b>Cost</b>	<b>LedgerOut</b>	<b>Price</b>	<b>PrimarySupplier</b>	<b>PrimarySupplierPartNo</b>
3	1	Equity Share	Acct	3000	0.00	3000	0.00	G1111L	ES1
4	4	Lawn Mow & Blow (per acre)	Svcs	5010	60.00	4010	120.00	G1111L	LMB1
5	5	100' roll - Trimmer Heavy Duty Line	Good	1030	2.00	2000	7.95	W1234W	THL100
6	6	6x12 - Trimmer Line Pre-cut	Good	1030	1.80	2000	3.95	W1234W	TLP612
7	7	Commercial Gas Powered Trimmer	Good	1030	230.00	2000	425.95	W1234W	CGPT300
8	8	Cash	Acct	1000	0.00	1000	0.00	G1111L	CT1
9	9	Accounts Receivable	Acct	1010	0.00	1010	0.00	G1111L	AR1
10	10	Truck	Acct	1050	0.00	1050	0.00	G1111L	T1
11	11	Equipment	Acct	1040	0.00	1040	0.00	G1111L	EQ1
12	12	Office	Acct	5050	0.00	5050	0.00	G1111L	OW1
13	13	Spread Mulch	Svcs	5010	15.00	4010	30.00	G1111L	SM1
14	14	Camilia Red	Good	5000	12.00	4000	50.00	S1245G	CAMRS
15	15	Camilia White	Good	5000	12.00	4000	50.00	S1245G	CAMWS
16	16	Plant Shrub	Svcs	5010	12.00	4010	24.00	G1111L	PS1
17	17	Crew Mgr (per hr)	Svcs	5010	25.00	5010	50.00	G1111L	WM1
18	18	Crew Helper (per hr)	Svcs	5010	14.00	5010	28.00	G1111L	WH1
19	19	Mulch Dark (per yd)	Good	5000	25.00	4000	45.00	S1245G	MUDBY
20	20	Seed Lawn (per acre)	Svcs	5010	50.00	4010	95.99	G1111L	SL1
21	21	Fescue Seed (50lb bag)	Good	5000	27.00	4000	50.00	S1245G	FESCUE50
22	22	Rye Seed (50 lb bag)	Good	5000	20.00	4000	40.00	S1245G	RYE50
23	23	Medium Tree Trimming	Svcs	5010	100.00	4010	200.00	G1111L	MTRIM
24	24	Large Tree Trimming	Svcs	5010	150.00	4010	300.00	G1111L	LTRIM
25	25	Small Tree / Bush Trimming	Svcs	5010	25.00	4010	55.00	G1111L	STRIM
26	26	Burlap Bags	Good	5000	1.00	4000	3.00	G1111L	BB1

## hort\_orders

CREATE TABLE "hort\_orders" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "Type" varchar(10) NOT NULL, "EnteredBy" integer NOT NULL, "EnteredDT" datetime NOT NULL, "OrderNotes" text NOT NULL, "Status" varchar(10) NOT NULL, "StatusBy" integer NOT NULL, "StatusDT" datetime NOT NULL, "InOrOut" integer NOT NULL, "OrdersCustID\_id" integer NOT NULL REFERENCES "hort\_customer" ("id"), "PONumber" varchar(20) NOT NULL, "AccountingDate" date NULL);

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>hort_orders</b>											
2	<b>id</b>	<b>Type</b>	<b>EnteredBy</b>	<b>EnteredDT</b>	<b>OrderNotes</b>	<b>Status</b>	<b>StatusBy</b>	<b>StatusDT</b>	<b>InOrOut</b>	<b>OrdersCustID</b>	<b>PONumber</b>	<b>AccountingDate</b>
3	1	S	3	2/21/2016 19:25	Equity in	FF	3	2/21/2016 19:25	1	21		3/1/2016
4	2	S	3	2/21/2016 19:30	Equity in	FF	3	2/21/2016 19:30	1	26		3/1/2016
5	3	P	3	2/25/2016 12:32	Truck purchase	FF	3	2/25/2016 12:32	1	25	1001	3/1/2016
6	4	P	3	2/26/2016 9:32	Equip purchase	FF	3	2/26/2016 9:32	1	22	1002	3/1/2016
7	5	P	3	2/27/2016 11:15	Rent due	FF	3	2/27/2016 11:15	1	22	1003	3/1/2016
8	6	P	3	2/28/2016 12:15	buy plants	FF	3	2/28/2016 12:15	1	24	1004	3/1/2016
9	7	S	3	3/1/2016 7:30	plant & mow	FF	3	3/1/2016 7:30	-1	5		3/1/2016
10	8	S	3	3/1/2016 7:32	mow	FF	3	3/1/2016 7:32	-1	3		3/1/2016
11	9	S	3	3/1/2016 7:36	seed & plant	FF	3	3/1/2016 7:36	-1	6		3/1/2016
12	10	S	3	3/1/2016 10:24	mow & seed	FF	3	3/1/2016 10:24	-1	21		3/1/2016
13	11	P	3	3/1/2016 17:24	crew lead pay	FF	3	3/1/2016 17:24	1	27	1006	3/1/2016
14	12	P	3	3/1/2016 17:24	helper pay	FF	3	3/1/2016 17:24	1	28	1007	3/1/2016
15	13	S	3	3/2/2016 14:24	plant & mow	OP	3	3/2/2016 14:24	-1	20	PO0532	

## hort\_details

CREATE TABLE "hort\_details" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "QtyOrdered" decimal NOT NULL, "QtyInOrOut" decimal NOT NULL, "CPEach" decimal NOT NULL, "ScheduledStartDT" datetime NULL, "ScheduledCompleteDT" datetime NULL, "GSID\_id" integer NOT NULL REFERENCES "hort\_goodandservices" ("id"), "Ledger" integer NULL, "OrderID\_id" integer NOT NULL REFERENCES "hort\_orders" ("id"), "Extended" decimal NOT NULL);

	A	B	C	D	E	F	G	H	I	J
1	hort_details									
2	id	QtyOrdered	QtyInOrOut	CPEach	ScheduledStartDT	ScheduledCompleteDt	GSID	Ledger	OrderID	Extended
3	1	51000	-51000	1.00			1	3000	1	(51000.00)
4	2	51000	51000	1.00			8	1000	1	51000.00
5	3	50000	-50000	1.00			1	3000	2	(50000.00)
6	4	50000	50000	1.00			8	1000	2	50000.00
7	5	1	1	25890.00			10	1050	3	25890.00
8	6	1	-1	25890.00			8	1000	3	(25890.00)
9	7	1	1	5320.00			11	1040	4	5320.00
10	8	1	-1	5320.00			8	1000	4	(5320.00)
11	9	1	1	500.00	3/1/2016 9:00	3/1/2016 9:00	12	5050	5	500.00
12	10	1	-1	500.00			8	1000	5	(500.00)
13	11	4	4	12.00			14	5000	6	48.00
14	12	3	3	12.00			15	5000	6	36.00
15	13	6	6	27.00			21	5000	6	162.00
16	14	2	2	20.00			22	5000	6	40.00
17	15	1	-1	286.00			8	1000	6	(286.00)
18	16	2	-2	50.00	3/1/2016 8:30	3/1/2016 11:00	14	4000	7	(100.00)
19	17	2	-2	24.00	3/1/2016 8:30	3/1/2016 11:00	16	4010	7	(48.00)
20	18	1	-1	120.00	3/1/2016 8:30	3/1/2016 11:00	4	4010	7	(120.00)
21	19	1	1	268.00			8	1000	7	268.00
22	20	1	-1	120.00	3/1/2016 12:00	3/1/2016 13:00	4	4010	8	(120.00)
23	21	1	1	120.00			8	1000	8	120.00
24	22	2	-2	50.00	3/1/2016 13:30	3/1/2016 17:00	14	4000	9	(100.00)
25	23	4	-4	24.00	3/1/2016 13:30	3/1/2016 17:00	16	4010	9	(96.00)
26	24	2	-2	50.00	3/1/2016 13:30	3/1/2016 17:00	15	4000	9	(100.00)
27	25	2	-2	40.00	3/1/2016 13:30	3/1/2016 17:00	22	4000	9	(80.00)
28	26	2	-2	95.99	3/1/2016 13:30	3/1/2016 17:00	20	4010	9	(191.98)
29	27	1	1	567.98			8	1000	9	567.98
30	28	6	-6	50.00	3/2/2016 8:30	3/2/2016 16:30	21	4000	10	(300.00)
31	29	6	-6	95.99	3/2/2016 8:30	3/2/2016 16:30	20	4010	10	(575.94)
32	30	6	-6	120.00	3/2/2016 8:30	3/2/2016 16:30	4	4010	10	(720.00)
33	31	4	-4	55.00	3/2/2016 8:30	3/2/2016 16:30	25	4010	10	(220.00)
34	32	1	1	1815.94			8	1000	10	1815.94
35	33	16	16	25.00			17	5010	11	400.00
36	34	16	-16	25.00			8	1000	11	(400.00)
37	35	16	16	14.00			18	5010	12	224.00
38	36	16	-16	14.00			8	1000	12	(224.00)
39	37	1	-1	50.00	3/16/2016 8:30	3/16/2016 10:00	15	4000	13	(50.00)
40	38	1	-1	24.00	3/16/2016 8:30	3/16/2016 10:00	16	4010	13	(24.00)
41	39	1	-1	120.00	3/16/2016 8:30	3/16/2016 10:00	4	4010	13	(120.00)

## hort\_ledgeracct

CREATE TABLE "hort\_ledgeracct" ("LedgerAcctNum" integer NOT NULL PRIMARY KEY, "LedgerAcctTxt" varchar(50) NOT NULL);

	A	B
1	hort_ledgeracct	
2	LedgerAcctNum	LedgerAcctTxt
3	1000	Cash
4	1005	ACH
5	1010	Accounts Receivable
6	1020	Investments
7	1030	Inventory
8	1040	Equipment
9	1050	Vehicles
10	1060	Real Estate
11	1070	Furniture & Fixtures
12	2000	Trade Accounts Payable
13	2020	Current Loans
14	2030	Mortgages
15	3000	Paid in Capital
16	3999	Retained Earnings
17	4000	Sale of Goods
18	4005	Shipping Sales
19	4010	Sale of Services
20	4020	Food Contributions
21	4025	Cash Contributions
22	4071	Shipping
23	5000	Cost of Goods for Sale
24	5003	Dry Ice
25	5005	Postage & Shipping
26	5010	Cost of Services Sold
27	5020	Food Distributions
28	5025	Spoilage
29	5030	Wages
30	5040	Administrative Costs
31	5050	Office/Warehouse Rent
32	5060	Utilities
33	5061	Telephone
34	5062	Internet Access
35	5065	Gas, Oil, & Maintenance
36	5067	Vehicle Lease
37	5070	Postage
38	5071	Shipping
39	5080	Interest
40	5085	Inventory Shrinkage

## Daily Journal Entries and Trial Balance

	A	B	C	D	E	F
1	<b>General Journal Entry</b>					
2	Date	GJ #	Description	Acct #	DR	CR
3	2/21/2016	1	Limited partnership w/ Joe Vestor			
4			Cash	1000	\$ 51,000.00	
5			Paid in Capital	3000		\$ 51,000.00
6	2/21/2016	2	Owner contribution (Mister Manager)			
7			Cash	1000	\$ 50,000.00	
8			Paid in Capital	3000		\$ 50,000.00
9	2/25/2016	3	Purchase Truck (Ford F-250)			
10			Truck	1050	\$ 25,890.00	
11			Cash	1000		\$ 25,890.00
12	2/26/2016	4	Purchase equipment (mower, etc.)			
13			Equipment	1040	\$ 5,320.00	
14			Cash	1000		\$ 5,320.00
15	2/27/2016	5	Pay rent to Weedy Wackers Inc.			
16			Office/Warehouse Rent	5050	\$ 500.00	
17			Cash	1000		\$ 500.00
18	2/28/2016	6	Purchase plants and seed from Smitty's			
19			Cost of Goods for Sale	5000	\$ 286.00	
20			Cash	1000		\$ 286.00
21	3/1/2016	7	Plant shrubs & moniblow - E. Hardison			
22			Cash	1000	\$ 268.00	
23			Sale of Goods	4000		\$ 100.00
24			Sale of Services	4010		\$ 168.00
25	3/1/2016	8	Moniblow - M. Vidakyo			
26			Cash	1000	\$ 120.00	
27			Sale of Services	4010		\$ 120.00
28	3/1/2016	9	Seed and plant shrubs - J. Strauss			
29			Cash	1000	\$ 567.98	
30			Sale of Goods	4000		\$ 280.00
31			Sale of Services	4010		\$ 287.98
32	3/1/2016	10	Moniblow and see - J. Vestor (prepay 3/2 scheduled)			
33			Cash	1000	\$ 1,815.94	
34			Sale of Goods	4000		\$ 300.00
35			Sale of Services	4010		\$ 1,515.94
36	3/1/2016	11	Pay Crew Lead			
37			Cost of Services Sold	5010	\$ 400.00	
38			Cash	1000		\$ 400.00
39	3/1/2016	12	Pay Helper			
40			Cost of Services Sold	5010	\$ 224.00	
41			Cash	1000		\$ 224.00
42	3/2/2016		<b>Trial Balance</b>		<b>\$ 136,167.92</b>	<b>\$ 136,167.92</b>
43	3/2/2016	13	Plant shrubs & moniblow - R. Zamboni			
44			Cost of Services Sold	5010	\$ 194.00	
45			open			\$ -

The open order ("OP") has no balancing entry and is not included in the Trial Balance.

## Appendix

### Project Folders ...*"hort"* application files

#### Index of C:\Users\kc\Envs\KCspr16eve\

Name	Size	Date Modified
[parent directory]		
Include/		2/6/16, 3:23:48 PM
Lib/		2/13/16, 11:28:31 AM
mysite/		3/27/16, 4:21:49 PM
Scripts/		3/20/16, 5:03:48 PM
share/		2/13/16, 11:30:34 AM
upload/		3/23/16, 12:56:41 PM
KCspr16eve_ERD.vsd	148 kB	3/27/16, 12:47:35 PM
KCspr16eve_sample_data.xlsx	22.9 kB	3/28/16, 4:17:45 PM
KCspr16eve_UML_CD.vsd	208 kB	3/27/16, 11:52:50 AM
KCspr16eve_UML_UCD.vsd	208 kB	3/26/16, 7:47:49 PM
pip-selfcheck.json	60 B	3/20/16, 4:50:18 PM

#### Index of C:\Users\kc\Envs\KCspr16eve\mysite\

Name	Size	Date Modified
[parent directory]		
hort/		2/15/16, 12:40:51 PM
mysite/		2/13/16, 11:32:05 AM
templates/		2/14/16, 5:52:41 PM
KCspr16eve.sqlite3	78.0 kB	3/27/16, 4:21:49 PM
manage.py	249 B	2/13/16, 11:31:28 AM

#### Index of C:\Users\kc\Envs\KCspr16eve\mysite\hort\

Name	Size	Date Modified
[parent directory]		
__pycache__/		3/27/16, 4:32:50 PM
migrations/		3/27/16, 4:21:43 PM
static/		2/20/16, 5:41:45 PM
templates/		2/14/16, 2:53:18 PM
__init__.py	0 B	2/13/16, 11:32:06 AM
admin.py	63 B	2/13/16, 11:32:06 AM
apps.py	83 B	2/13/16, 11:32:06 AM
forms.py	2.6 kB	3/27/16, 4:33:08 PM
models.py	7.5 kB	3/27/16, 4:32:49 PM
tests.py	60 B	2/13/16, 11:32:06 AM
urls.py	1.4 kB	3/23/16, 4:52:46 PM
views.py	6.3 kB	3/24/16, 12:08:08 PM

#### Index of C:\Users\kc\Envs\KCspr16eve\mysite\hort\templates\hort\

Name	Size	Date Modified
[parent directory]		
cust_detail.html	700 B	2/21/16, 11:15:14 AM
cust_list.html	1.4 kB	2/21/16, 11:14:28 AM
gs_detail.html	700 B	2/21/16, 11:16:24 AM
gs_list.html	1.4 kB	3/27/16, 3:23:48 PM
index.html	1.4 kB	2/22/16, 7:20:45 PM
invoice_detail.html	964 B	3/23/16, 4:44:45 PM
invoice_item_detail.html	1.1 kB	3/23/16, 4:51:01 PM
invoice_item.html	3.0 kB	3/24/16, 1:56:56 PM
invoice_list.html	1.7 kB	3/24/16, 1:28:09 PM
ledger_list.html	980 B	3/23/16, 12:46:45 PM
login.html	398 B	2/14/16, 6:22:40 PM

## Screen Shots

...sample pages to date

Login

Enter your credentials.

Username:

Password:

Back Next Cancell

Home - Welcome!

Logout

**Crew Menu**

- Open Orders
- Say Hello

**Customer Mgmt**

- Customer Order Entry
- View & Edit Customers
- Say Hello

**Manager Menu**

- Ledger Accounts
- Goods and Services
- Say Hello

INFO 465 IS Project - Ken Carbaugh  
Spring 2016, evening section  
Contact: carbaughkr@vcu.edu

Goods & Services List

Home Add Good/Service Say Hello

Description (click to update)	Class	LedgerIn	Cost	LedgerOut	Price	PrimarySupplier	PrimarySupplierPartNo
Equity Share	Acct	3000	1.0000	3000	1.0000	G1111L	ES1
Cash	Acct	1000	0.0000	1000	0.0000	G1111L	CT1
Accounts Receivable	Acct	1010	0.0000	1010	0.0000	G1111L	AR1
Truck	Acct	1050	0.0000	1050	0.0000	G1111L	T1
Equipment	Acct	1040	0.0000	1040	0.0000	G1111L	EQ1
Office	Acct	5050	0.0000	5050	0.0000	G1111L	OW1
100' roll - Trimmer Heavy Duty Line	Good	1030	2.0000	2000	7.9500	W1234W	THL100
6x12 - Trimmer Line Pre-cut	Good	1030	1.8000	2000	3.9500	W1234W	TLP612
Commercial Gas Powered Trimmer	Good	1030	230.0000	2000	425.9500	W1234W	CGPT300
Camilia Red	Good	5000	12.0000	4000	50.0000	S1245G	CAMRS
Camilia White	Good	5000	12.0000	4000	50.0000	S1245G	CAMWS
Mulch Dark (per yd)	Good	5000	25.0000	4000	45.0000	S1245G	MUDBY
Fescue Seed (50lb bag)	Good	5000	27.0000	4000	50.0000	S1245G	FESCUE50
Rye Seed (50 lb bag)	Good	5000	20.0000	4000	40.0000	S1245G	RYE50
Burlap Bags	Good	5000	1.0000	4000	3.0000	G1111L	BB1
Lawn Mow & Blow (per acre)	Svcs	5010	60.0000	4010	120.0000	G1111L	LMB1



127.0.0.1:8080/hort/ x

127.0.0.1:8080/hort/gs\_detail/0/

Apps Bookshelf VCU.edu Citrix Receiver Imported From IE Used Boat Equip YachtWorld Application Expre

## Goods and Services Detail

Home Back to GS List

Description:

Class:

LedgerIn: 1000 - Cash

Cost: 0.0

LedgerOut: 1000 - Cash

Price: 0.0

PrimarySupplier:

PrimarySupplierPartNo:

Submit

127.0.0.1:8080/hort/ x

127.0.0.1:8080/hort/invoice/

Apps Bookshelf VCU.edu Citrix Receiver Imported From IE Used Boat Equip YachtWorld Application Expre

## Open Orders

Home New Order Say Hello

CustID - PO (click to update)	Type	Items	Status	StatusDT	EnteredDT	InOrOut	Tender
S1245G - Smitty's Garden Supply - 2	P	>	OP	March 24, 2016, 12:13 p.m.	March 24, 2016, 12:13 p.m.	1	\$
J1234I - Vestor - 1	S	>	OP	March 26, 2016, 6:57 p.m.	Feb. 21, 2016, 2:25 p.m.	-1	\$

127.0.0.1:8080/hort/ x

127.0.0.1:8080/hort/invoice\_item\_list/1/

Apps Bookshelf VCU.edu Citrix Receiver Imported From IE Used Boat Equip YachtWorld Application Expre

## Order Item Entry

Home Add Line Item Cancel

**Order Header:** Sale

OrdersCustID	PONumber	OrderID	Status	StatusDT	EnteredDT	InOrOut
J1234I - Vestor	1	1	OP	March 26, 2016, 6:57 p.m.	Feb. 21, 2016, 2:25 p.m.	-1

**Customer Info:**

Name	Address	Relationship
Vestor, Joe	100 Money Buckets Blvd, New York, NY 12345	INV

**Line Items:**

GSID	QtyOrdered	QtyBackOrdered	QtyDelivered	CPEach	ScheduledStartDT
Office	1.0000			25.0000	March 24, 2016, 12:10 p.m.
Spread Mulch	2.0000			27.0000	March 24, 2016, 12:10 p.m.