### **Project Summary**

Sales files are received for different franchises. These sales files vary in format, with either static locations for needed information (tender type, sales total, etc.), or requiring parsing based on key words. The end goal is to be able to process a given date range worth of sales for various locations and produce a file with specific formatting that can be accepted by the accounting software.

For example, there are two existing franchises, Franchise A and Franchise B. Franchise A has 3 locations, with minor differences in the sales files. Franchise B only has one location. The configuration will be stored in the database, so when it is said to import sales for the week ending 2/22, no further user input will be necessary and the desired import files will be produced, one for each location.

### **Project Requirements**

Req. ID	Requirement Description	
R.01	Users shall be able to specify a date range and location and receive a single Peachtree formatted import file.	
R.02	User shall be able to specify a group of locations and a date range, and receive a Peachtree formatted import file of sales for each location.	
R.03	System will handle a wide range of sales files, as long as the format is known ahead of time.	
R.04	System must produce valid Peachtree import files.	
R.05	System must log errors such as missing sales file, missing deposit information (the day's journal entry does not add up correctly), outrageous over/shorts	

### **Users and Tasks**

This system will have one type of user, specifically an administrator. Users will need to be able to generate import files and receive information if the generation fails.

Use Case ID:	UC.01				
Use Case Name:	Locatio	Location - process day of sales			
Description:		User can generate an import file for Peachtree from a provided sales file			
Actors:	Admin	istrator			
Pre-conditions:		Sales file exists in predetermined location & with a format that the system has been configured to accept.			
Post-condition	A Peac	htree import file is generat	ted, any errors are logged		
Main Scenario					
		Actor Action	System Response		
	1	Specify location and date	Loads correct parsing mechanism based on location		
	2		Parses sales file		
	3		Generate import file		
	4	Acquire import file			
Exception Scenario		1a. Location not configured 1b. Exit			
Exception Scenario	2a. Sal	2a. Sales file doesn't exist			
	2b. Generate empty sales import for the day, log error				
Exception Scenario	3a. Import file doesn't add up (missing lines, unexpected format, any number of things)				
	3b. Gei	3b. Generate partial file if possible, log error			

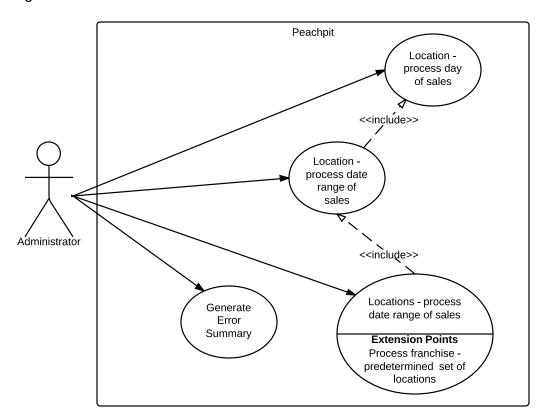
Use Case ID:	UC.02			
Use Case Name:	Location - process date range of sales			
Description:	User can generate an import file for Peachtree from a provided sales file (all days are in same file)			
Includes:	UC.01			
Actors:	Administrator			
Pre-conditions:	Sales file exists in predetermined location & with a format that the system has been configured to accept.			
Post-condition	A Peachtree import file is generated, any errors are logged			
Main Scenario	Actor Action System Response  1 Specify location and date UC.01 on each day in range			
Exception Scenario	Same as UC.01			

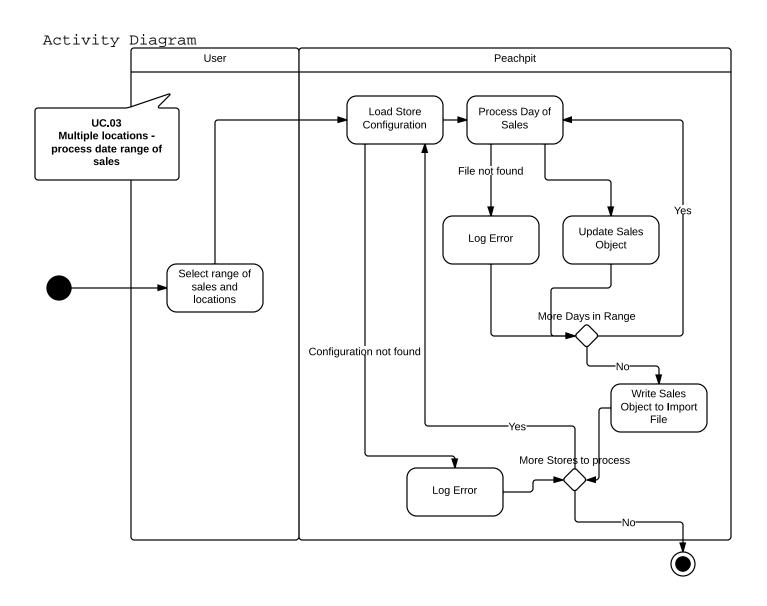
Use Case ID:	UC.03
Cube ID.	00.03

Use Case Name:	Multiple locations - process d	Multiple locations - process date range of sales			
Description:		User can generate an import file for Peachtree from a provided			
	sales file (one for each location)				
Includes:	UC.01, UC.02	UC.01, UC.02			
Actors:	Administrator	Administrator			
Pre-conditions:	Sales file exists in predetermi	Sales file exists in predetermined location & with a format that the			
	system has been configured to	system has been configured to accept.			
Post-condition	A Peachtree import file is gen	A Peachtree import file is generated, any errors are logged			
Main Scenario					
	Actor Action	System Response			
	1 Specify locations and	UC.02 on each location			
	date				
Exception Scenario	Same as UC.02	Same as UC.02			
Extension	Import franchise - a predeter	Import franchise - a predetermined list of locations			

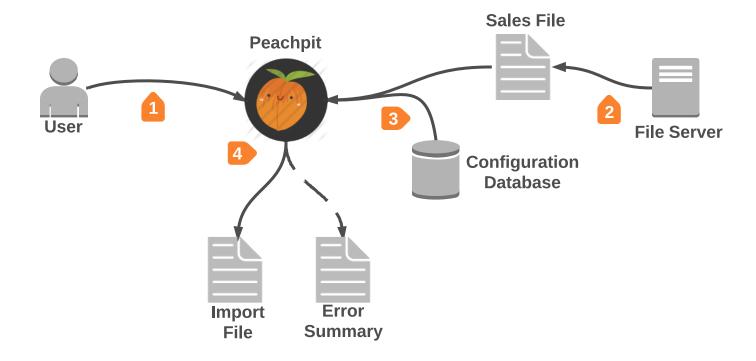
Use Case ID:	UC.04	UC.04			
Use Case Name:	Error Summ	Error Summary			
Description:	User can gen	User can generate an error summary from logged errors			
Actors:	Administrato	Administrator			
Pre-condition:	Sales file exis	Sales file exists have been imported log exists.			
Post-condition:	A summary o	of errors is presented	l to user		
Main Scenario:					
	Actor	Action	System Response		
	1 Speci	fy batch to examine	Load error log		
	2		Generates error overview		
Exception Scenario:	1a. Error log 1b. Exit	1a. Error log does not exist, inform user 1b. Exit			

# Peachpit Use Case Diagram





## Peachpit Architecture Diagram



- User selects a location or locations which to generate import files, as well as supplying desired date range.
- Sales files are loaded from the server. If sales files are missing, an error is logged.
- Configuration data for the sales files for the given location is loaded. If configuration information is missing, an error is logged.
- A formatted import file is produced for each location selected by the user. If errors were logged, a summary can be produced.

### **UI Mockup**

Our project is command line, so there is no UI mockup, however we can list commands that could be used.

```
Standard operation of peachpit:

peachpit [options] location(s) <Start Date: mm.dd.yy> <End Date: mm.dd.yy>

Error review:

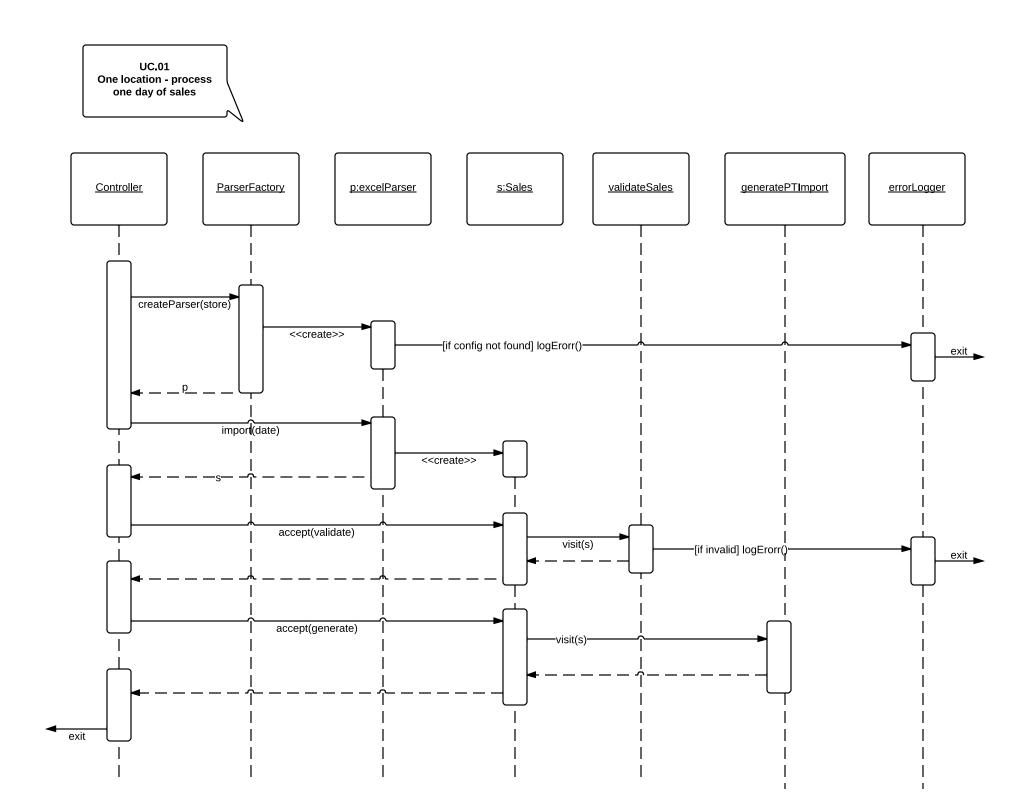
peachpit err
```

### **Data storage**

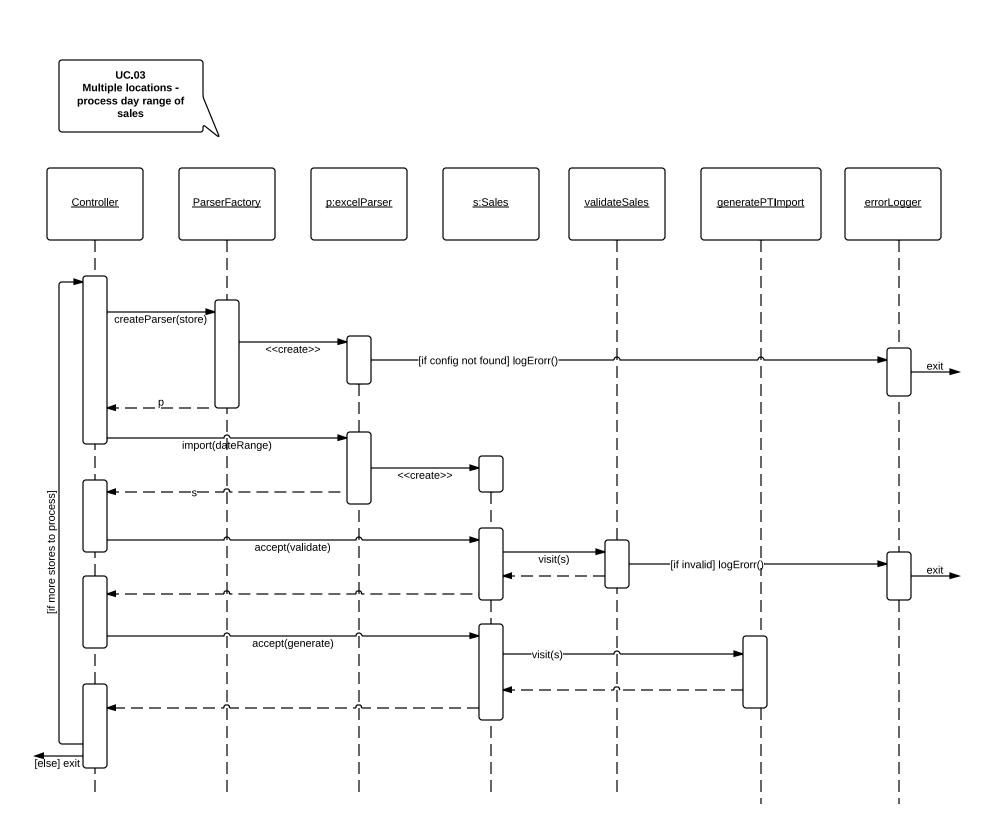
Sales and import files will be stored on a local server, configuration information will be in a database, also on the local server. Input and output will both be CSV files. We are leaning towards MongoDB for the database.

#### **User interactions**

• The first use case consists of our processing one day of sales and is our simplest use case. Our system handles processing a single day of sales by creating a parser with the information from the configuration database (found from given location name). The appropriate sales file is then found and parsed, the validity of the data is checked and then import file is generated, which is then used outside of our system.



- The second use case handles a range of days. This is similar to UC.01, the only difference is the parser is given a date range versus a single date. [no diagram, only a passed parameter changes]
- The third use case handles multiple locations and a range of days



• The last user interaction exists for ease of error correction. Peachpit will identify errors that occurred during our interaction and display to the user a summary. This is reflected in UC.04.

