

# **Computer Information Systems**

## **Business Application Development**

### **Flowcharting Assignment**

Flowchart the following pseudo-coded application. Put your name on the flowchart, print it out, and turn it in.

#### **Part 1 – Customer Information**

##### **STARTCUSTOMER**

Display the list of customers

Ask for user input

If user selects “new” then

Start Add of customer

##### **ADDCUSTOMER**

Get user input

Did the user enter all of the information?

If not, display error and then go to ADDCUSTOMER

Does the customer already exist?

If so, display a different error and then go to ADDCUSTOMER

Save the new customer information to the database

Go to STARTCUSTOMER

If user selects update then

Start Update of Customer

##### **UPDATECUSTOMER**

Get User Input

Did any information change?

If not, go to STARTCUSTOMER

Did the user enter all of the information?

If not, display Error Message then go to UPDATECUSTOMER

Save the new customer information to the database

Go to STARTCUSTOMER

If user select delete then

Start delete of customer

##### **DELETECUSTOMER**

Ask for user to confirm delete

If not confirmed, then go to STARTCUSTOMER

Check database to see if customer has movies rented

If customer has movies rented, display error and then go to STARTCUSTOMER

If customer owes money, display different error and then go to STARTCUSTOMER

Delete the customer history record from the database

Delete the customer record from the database

Go to STARTCUSTOMER

If the user selects printlist then

Start printing of customer list

##### **PRINTLIST**

Ask user if they want detail or simple

If detail, then print the detail report

If simple, then print the simple report

Go to STARTCUSTOMER  
If user selects GenLate then  
Start Generation of Late Fees  
Get the first customer record from the database  
GENLATE  
Does the record exist?  
If not then go to STARTCUSTOMER  
Does the customer have a movie rented?  
If no then go to GETNEXTCUST  
Is the movie late?  
If yes then, add late fee to customer record  
GETNEXTCUST  
Get the next customer record  
Go to GENLATE