

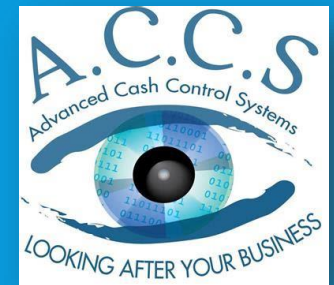
Sean Carlin

# PLACEMENT PRESENTATION

# WHERE WAS MY PLACEMENT?



- My placement was with a small company called Advanced Cash Control Systems LTD, or ACCS for short.
- ACCS are an advanced retail systems company that supply top of the range Vectron EPoS till systems.
- ACCS are located just outside of Antrim, near Maghera.



# WHAT IS A VECTRON TILL?

A highly advanced EPoS till that is altered to your needs. Each till has its own magnetic key fob holder that when connected with a key fob, that user is logged in automatically, which is beneficial for busy bars or restaurants.



POS Touch 15 II Wide



POS MobilePro III



POS Touch 15 II

# PLACEMENT TASKS



- Develop a solution to resolve a business issue
- I had to learn a new programming language called Lua
- Research Vectron API(Application Programming Interface)
- Learn how to use Vectron Software



# WHAT IS LUA?



- Lua is a very powerful and efficient language that is very easily embedded into systems and programs most compatible.
- It is very fast, as Lua has a "*deserved reputation for performance*"[Lua 2017].

As you can see in the image, this is a very simply method I have used in my final solution for ACCS. This method generates a random number, and logs in the user(operator) that the random number is assigned to.

```
local getRandomOperator = function()

    local Operator;

    while (true) do
        Operator = vpos.masterdata.Operator(math.random(1, 224));
        if (Operator ~= nil) then break end
    end

    return Operator

end;
```

User

Receipt Preview

Order Total

Keypad

User Tools

Vectron POS PC 6.3.16.5

100 Saved Report

.Journal

10/05/2020

0:56 AM

VC -

12" MARGARITA

9" PEPPERONI

9" SALAD KEBAB PIZZA

DONER KEBAB

MED CHIPS

9" CHIP KEBAB PIZZA

12" PEPPERONI

12" SALAD KEBAB PIZZA

DONER CHIP KEBAB

LRG CHIPS

12" CHIP KEBAB PIZZA

15" PEPPERONI

15" SALAD KEBAB PIZZA

CHICKEN KEBAB

40Z GARLIC MAYO

15" CHIP KEB PIZZA

9" PIZZA GAR BREAD

CHK CHIP KEBAB

CHICKEN MEAL

40Z CHILLI SAUCE

9" PIZZA

LITE BITES

SALADS

GARLIC BREAD

SHOP

12" PIZZA

KEBAB MEALS

KIDS MENU

DIPS PAID

15" PIZZA

CHIPS & WEDGES

EXTRAS & SIDES

DRINKS

PARTY MEALS

KITCHEN INSTRUCTION

DELIVERY CHARGES

SEND

PAYMENT

SUBTOTAL

Functions

Manager

Correction

Void

Message

New Order

Review Orders

Change Info

Available Products

Side Menus

VECTRON

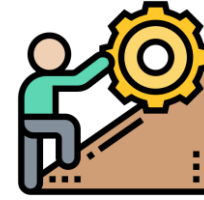
POS

# FIRST THOUGHTS



- How am I going to settle?
- Am I going to struggle learning a new language?
- Will I get the solution completed on time?

# CHALLENGES ENCOUNTERED



- Coding & Functionality Errors
- Understanding the Lua language effectively
- Reading the Vectron API & understanding its methods.

During error handling, I found "It is common sense to take a method and try it. If it fails, admit it frankly and try another. But above all, try something." [Franklin D. Roosevelt (1945) *Looking Forward*]

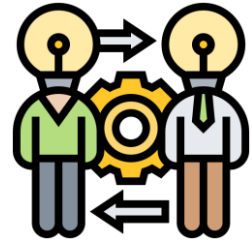


# FINAL OUTCOME



- The solution deadline was completed on time.
- The solution has been thoroughly tested and documented.
- This module I have created is going to be continuously used throughout the future.
- My Final solution for ACCS is now being used within live businesses.

# GAINED SKILLS



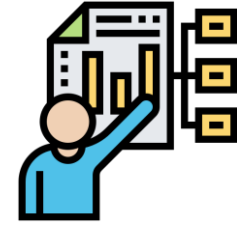
- I know how to use the Lua language
- Time Management
- Enhanced Communication Skills
- Experience within the workplace
- Ability to work from home after a sudden pandemic

# PERSONAL DEVELOPMENT



- Gained confidence within the workplace and independently
- Fully capable of working with various languages, Lua being the most recent
- Confident in working with different types of software

# CONCLUSION



Overall I found my experience at Advanced Cash Control Systems to be very rewarding in terms of knowledge and practicality. It has prepared me for the future working in the software industry, I know working in the industry is going to be nothing like going to a class in the college. I'll have strict deadlines to meet, I'll have to work independently and take things into my own hands when needed. This experience will be carried with me throughout my future placements and projects.

**Thank you for your time.**



# QUESTIONS?



THANK YOU