1 Team Name:

Jets

2 Team Profile:

The team consists of 4 individuals named Julian Falzon, Ethan Lethridge, Andre Theuma and Luke Dalli.

Julian's technical skill involves that of Management. These include technical writing, computer literacy in database systems and the adobe suite. He has also gained experience in data management, analytics and project management. Julian has leadership skills which are considered as an asset for his position.

Ethan's area of expertise is that of Business Analysis. Some of the skills gained from experience include being fluent in programming languages such as Java, C, C++ and Python. Besides that he is known for his success in data analytics and data modelling. Ethan's consistency backs up his observations. His logical reasoning makes everything seem easy.

Andre is known for his reputation in Project Management. He is excellent at technical reporting and work scheduling software. Works well with Ethan in data analytics and proficient in Scrum and Agile. Other soft skills include, good time management, adaptability and teamwork.

Luke is very efficient in Information Technology. Some of his specific skillsets include, full stack development, cloud computing, network structure and security. Luke is a problem solver. His critical thinking and creative mindset helps to complete the package.

2.1 GitHub Repository

URL: https://github.com/andreTheuma/jenkinsJets

2.2 Jenkins Project

"Project Jets" URL: https://jenkins-ict.research.um.edu.mt/job/Jets/

3 Source Code Listing

3.1 CmakeLists.txt

```
cmake_minimum_required(VERSION 3.15)
project(calculatorLibrary C)
set(CMAKE_C_STANDARD 11)
add_library( multiply.h division.h add.h Subtract.h)
set(file1 library.c )
add_executable(CalLibrary $file1)
```

3.2 library.c

```
#include "multiply.h"
#include "Subtract.h"
#include "add.h"
#include "division.h"
#include ¡stdio.h¿
int main(void) {
int option;
int status;
float num1, num2;

    do {
printf("1.Addition2.Multiplication3.Subtraction4.Division");
printf("Please enter an option");
status = scanf("%d", &option);
switch(option) {
case 1:
printf("Adding");
printf("Please enter two numbers to add together:");
scanf("%f", &num1);
scanf("%f", &num2);
printf("The addition of %.2f and %.2f is %.2f",num1,num2,add(num1,num2));
break;
case 2:
printf("Multiplying");
printf("Please enter two numbers to multiply by each other");
scanf("%f", &num1);
scanf("%f", &num2);
printf("The multiplication of %.2f and %.2f is %.2f",num1,num2,multiply(num1,num2));
break;
case 3:
printf("Subtracting");
printf("Please enter 2 numbers to subtract the second from the first:");
scanf("%f", &num1);
scanf("%f", &num2);
printf("The result of %.2f minus %.2f is %.2f",num1,num2,Subtract(num1,num2));
break;
case 4:
printf("Dividing");
printf("Please enter 2 numbers to divide the second from the first:");
scanf("%f", &num1);
scanf("%f", &num2);
printf("The result of %.2f divided by %.2f is %.2f",num1,num2,division(num1,num2));
```

```
break;

default:
break;
}
} while (status == 1);
return 0;
}
```

3.3 add.h

```
float add(add1, add2) {
return add1+add2;
}
```

3.4 subtract.h

```
float Subtract(float x, float y)
{
return x - y;
}
```

3.5 multiply.h

```
float multiply(float mult1, float mult2)
{ return mult1 * mult2;
}
```

3.6 division.h

```
float division(float div1, float div2)
{
return (div1/div2);
}
```

3.7 Screenshots of Jenkins Setup

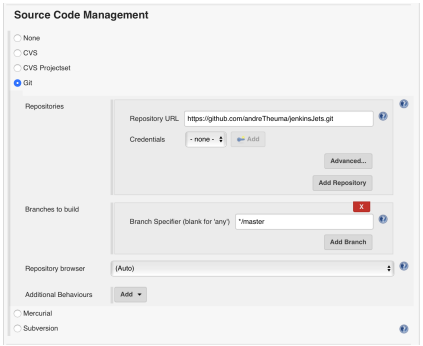

Figure 1: Jenkins Setup

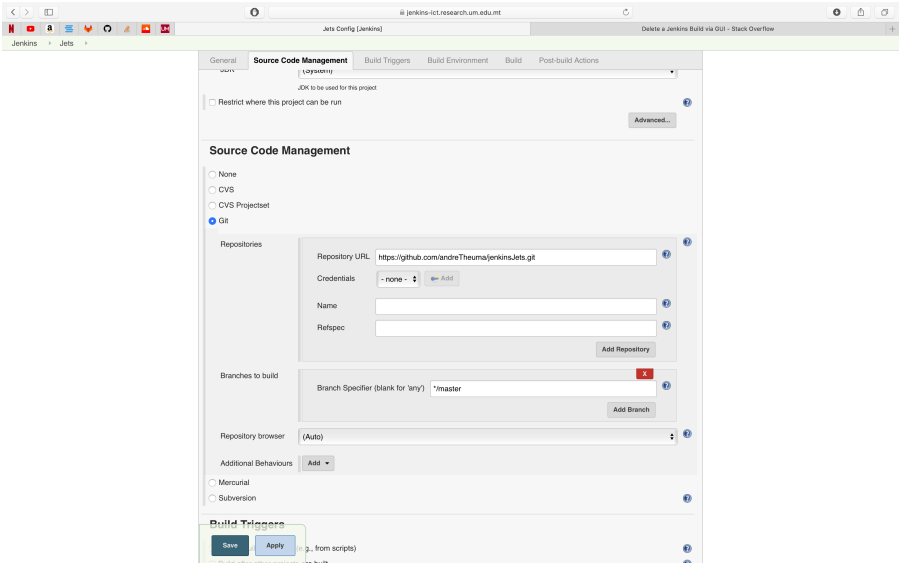

Figure 2: Jenkins Setup

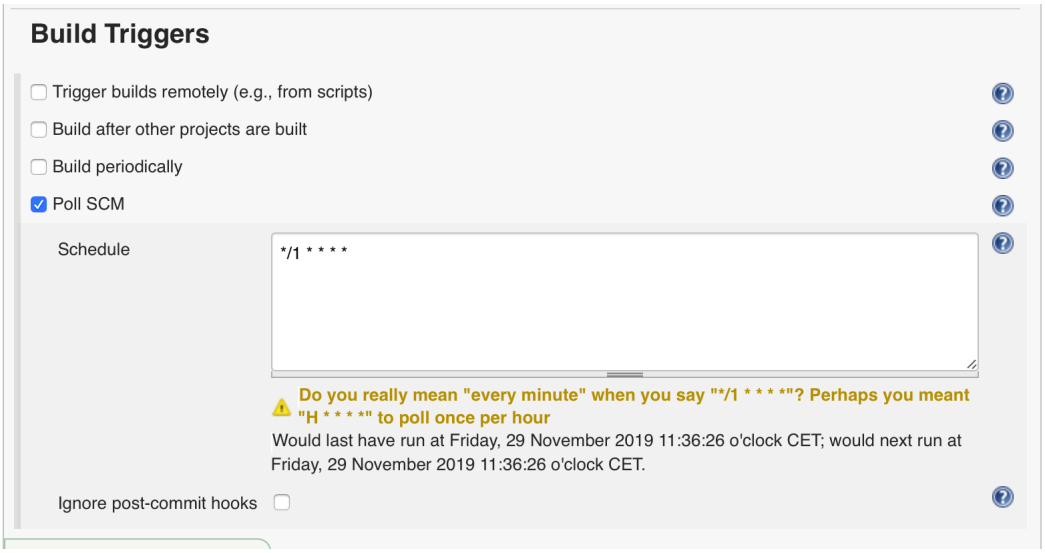

Figure 3: Jenkins Setup

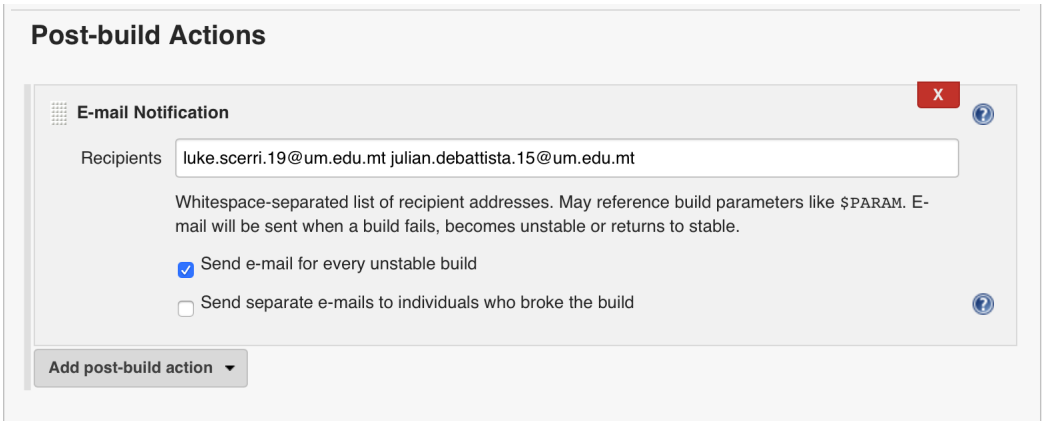

Figure 4: Jenkins Setup

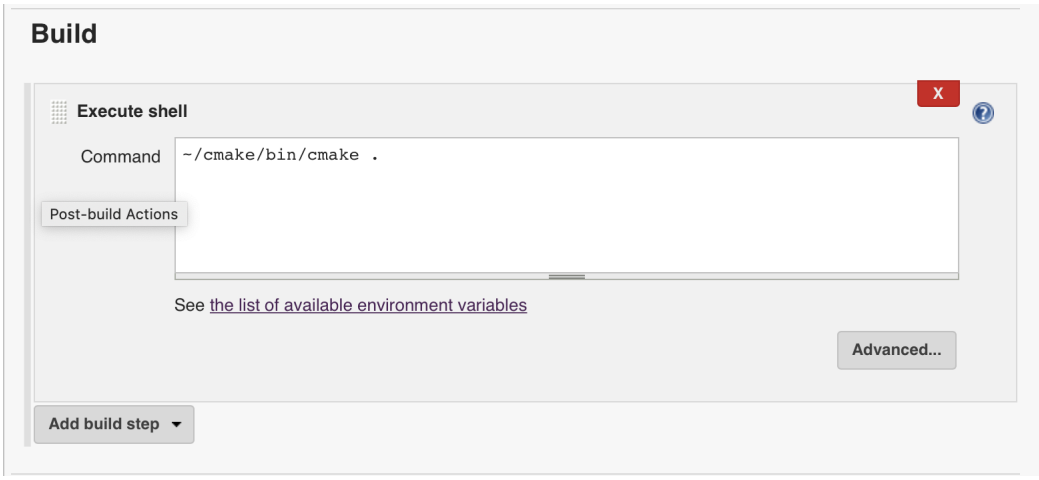

Figure 5: Jenkins Setup