

CPS 1010- Collaborative Practical Project

Assignment 3-Issue Tracking and Continuous Integration

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1 Team Information

Our team consists of three members, Daniel Camilleri, Ylenia Zammit and Darren Aquilina.

Darren Aquilina: 18 years old. Very interested in software development as can be shown by previous experience in Java and newly acquired knowledge with the C programming language. He brings excellent debugging skills to the team. His interests are physical activity and social gatherings.

Ylenia Zammit: 18 years old. Interested in web development with previous experience in JavaScript and HTML. She brings excellent motivation to the team as well as efficient problem solving techniques. Her interests include Karate and jogging.

Daniel Camilleri: 19 years old. Intreseted in software and hardware development by building his own personal computer on the hardware side and learning basic Java programming and currently learning programming in C. He brings excellent quality and unit testing. His interests are computer hardware and gaming.

2 Project Information

Github Link : <https://github.com/danielsna/The-IT-Crew>

The URL to Jenkins project : <https://jenkins-ict.research.um.edu.mt/job/The>

3 Screen shots of key parts of Jenkins configuration

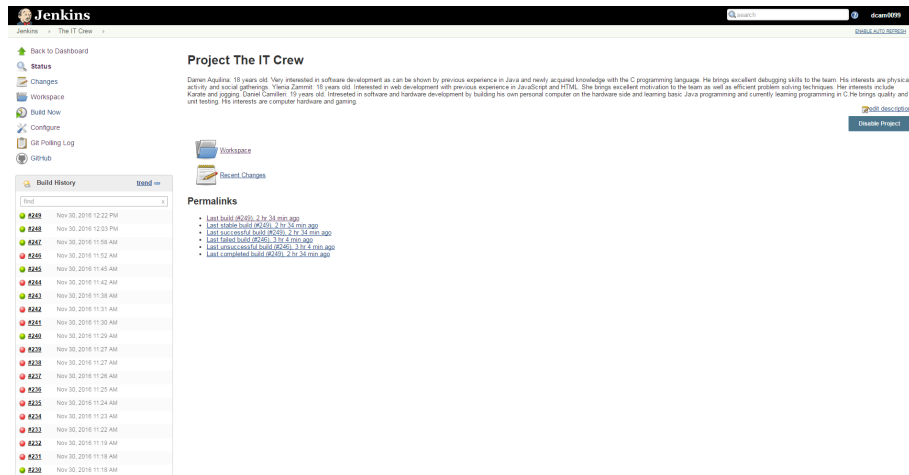


Figure 1: Build output

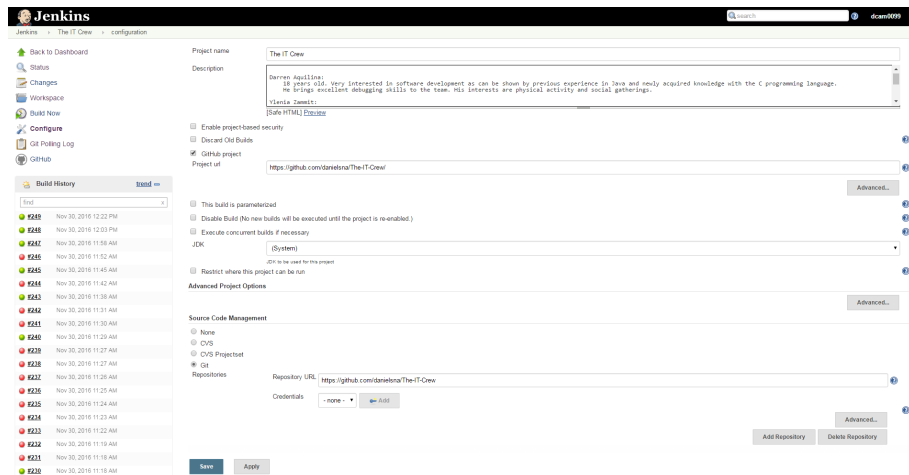


Figure 2: Configuration Page: Part1

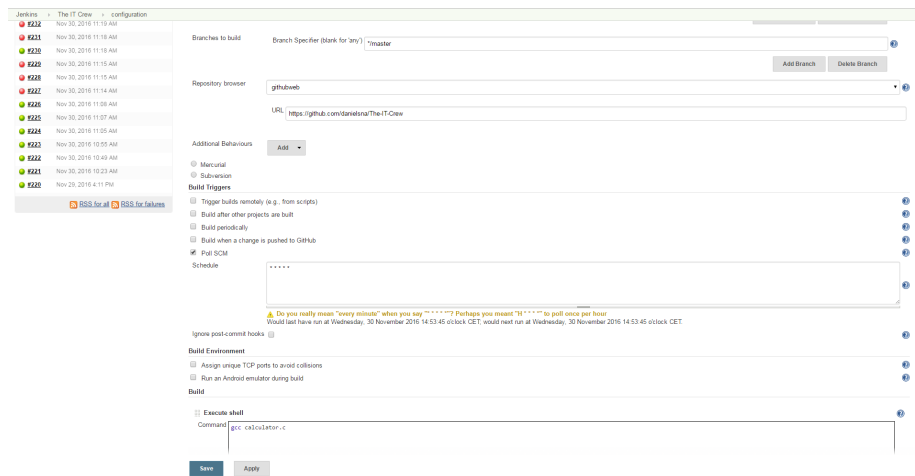


Figure 3: Configuration Page: Part2

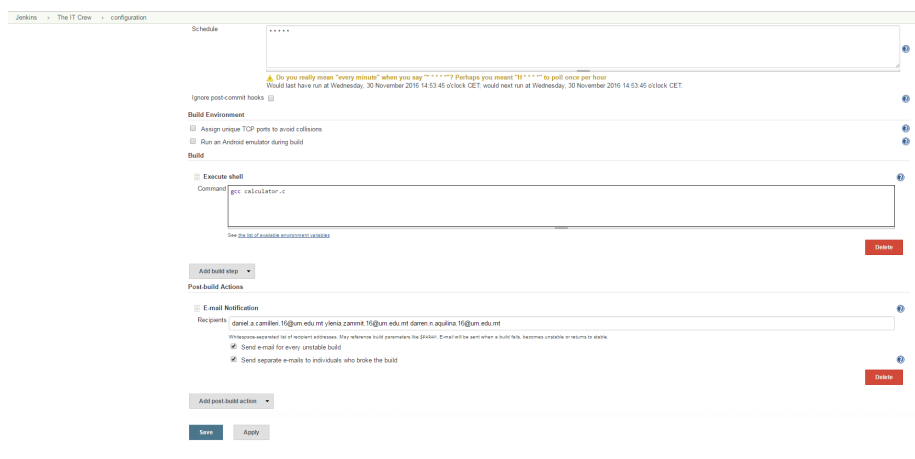


Figure 4: Executing Shell Command

4 Screen shots of Generating and Fixing Errors

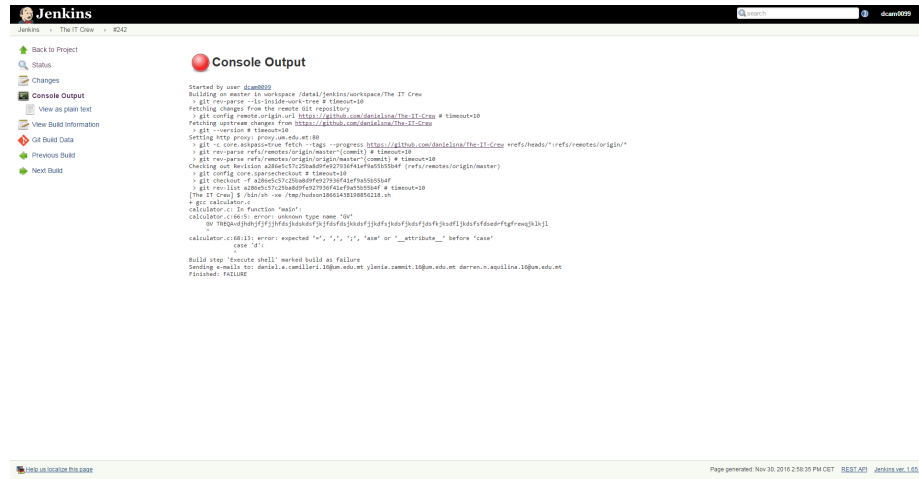


Figure 5: Error generated by Daniel

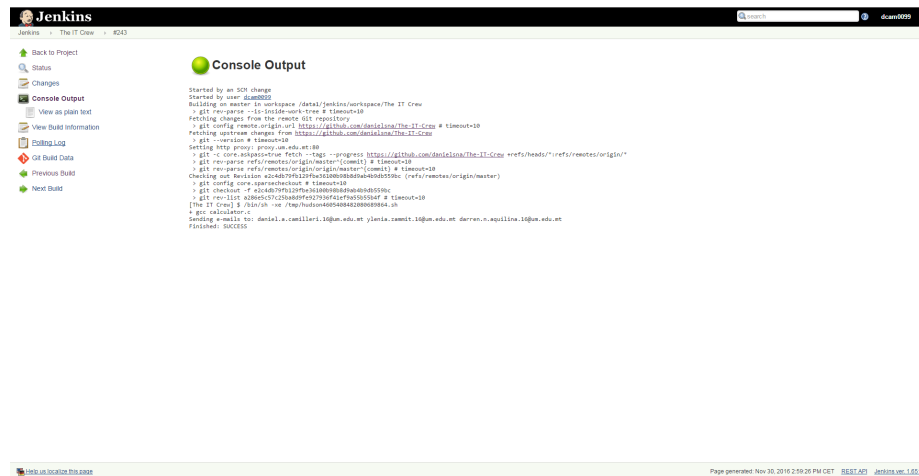
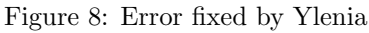


Figure 6: Error fixed by Daniel



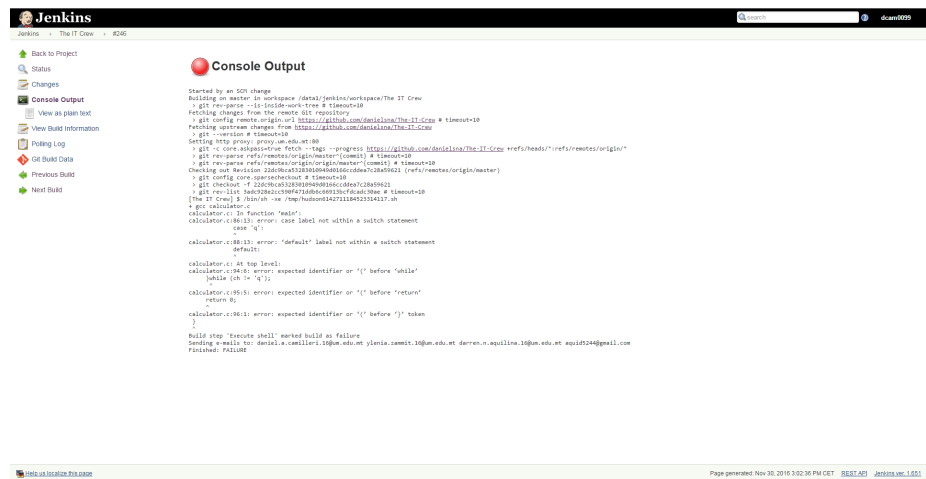


Figure 9: Error generated by Darren

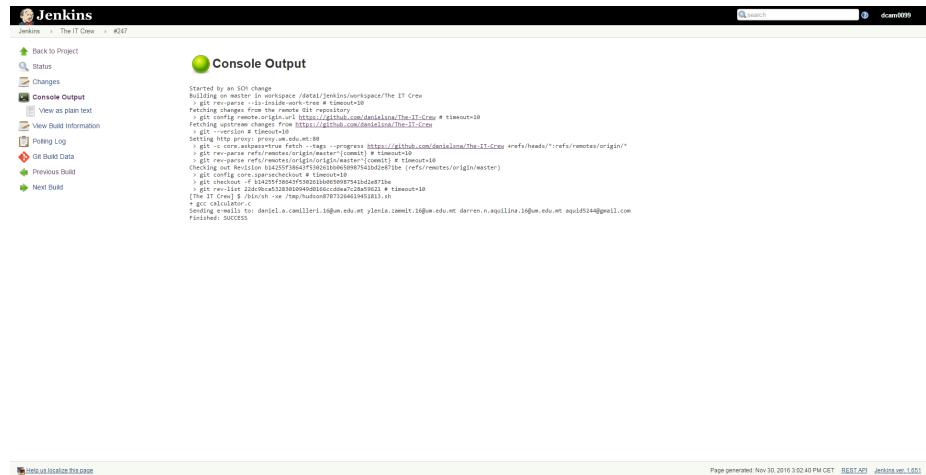


Figure 10: Error fixed by Darren

5 Source Code Listing

```
calculator.c

#include <stdio.h>
char get_first(void);

int main (void)
{
    char ch;
    float num1, num2;
    num1 = num2 = 0;
    do{
        printf("\nEnter the operation of your choice:
        \na. add\t\tts.
        subtract\nm.multiply\td. divide\nq.quit");
        ch = get_first();
        switch (ch)
        {
            case 'a':
                printf("\nEnter first number: ");
                while (scanf("%f", &num1) != 1)
                {
                    while (getchar() != '\n');
                    printf("\nPlease enter a number,
                    such as 2.5,
                    -1.78E8, or 3: ");
                }
                printf("\nEnter second number: ");
                while (scanf("%f", &num2) != 1)
                {
                    while (getchar() != '\n');
                    printf("\nPlease enter a number,
                    such as 2.5,
                    -1.78E8, or 3: ");
                }
                printf("%.2f + %.2f = %.2f", num1, num2,
                num1 + num2);
                while (getchar() != '\n');
                break;
            case 's':
                printf("\nEnter first number: ");
                while (scanf("%f", &num1) != 1)
                {
                    while (getchar() != '\n');
```

```

        printf("\nPlease enter a number,
            such as 2.5,
            -1.78E8, or 3: ");
    }
    printf("\nEnter second number: ");
    while (scanf("%f", &num2) != 1)
    {
        while (getchar() != '\n');
        printf("\nPlease enter a number,
            such as 2.5,
            -1.78E8, or 3: ");
    }
    printf("%.2f - %.2f = %.2f", num1, num2,
        num1 - num2);
    while (getchar() != '\n');
    break;

case 'm':
    printf("\nEnter first number: ");
    while (scanf("%f", &num1) != 1)
    {
        while (getchar() != '\n');
        printf("\nPlease enter a number,
            such as 2.5,
            -1.78E8, or 3: ");
    }
    printf("\nEnter second number: ");
    while (scanf("%f", &num2) != 1)
    {
        while (getchar() != '\n');
        printf("\nPlease enter a number,
            such as 2.5,
            -1.78E8, or 3: ");
    }
    printf("%.2f * %.2f = %.2f", num1, num2,
        num1 * num2);
    while (getchar() != '\n');
    break;
case 'd':

    printf("\nEnter first number: ");
    while (scanf("%f", &num1) != 1)
    {
        while (getchar() != '\n');
        printf("\nPlease enter a number,
            such as 2.5,

```

```

        -1.78E8, or 3: ");
    }

    printf("\nEnter second number: ");
    while ((scanf("%f", &num2) != 1)
        && num2 == 0)
    {
        while (getchar() != '\n');
        printf("\nPlease enter a number
            other than 0,
            such as 2.5, -1.78E8, or 3: ");
    }
    printf("%.2f / %.2f = %.2f", num1, num2,
        num1/num2);
    while (getchar() != '\n');
    break;
case 'q':
    break;
default:
    printf("\nPlease enter 'a', 's', 'm', 'd'
        or 'q' to quit :\n");
}
}while (ch != 'q');
return 0;
}

char get_first(void)
{
    int ch;
    ch = getchar();
    while (getchar() != '\n')
        continue;
    return ch;
}

```