



KNOW THE WORLD, THEN LOVE IT

Portfolio

CHANGHONG LI

APPLY FOR **COBOL** DEVELOPER

HIERACHY CHART OF PROJECT 1

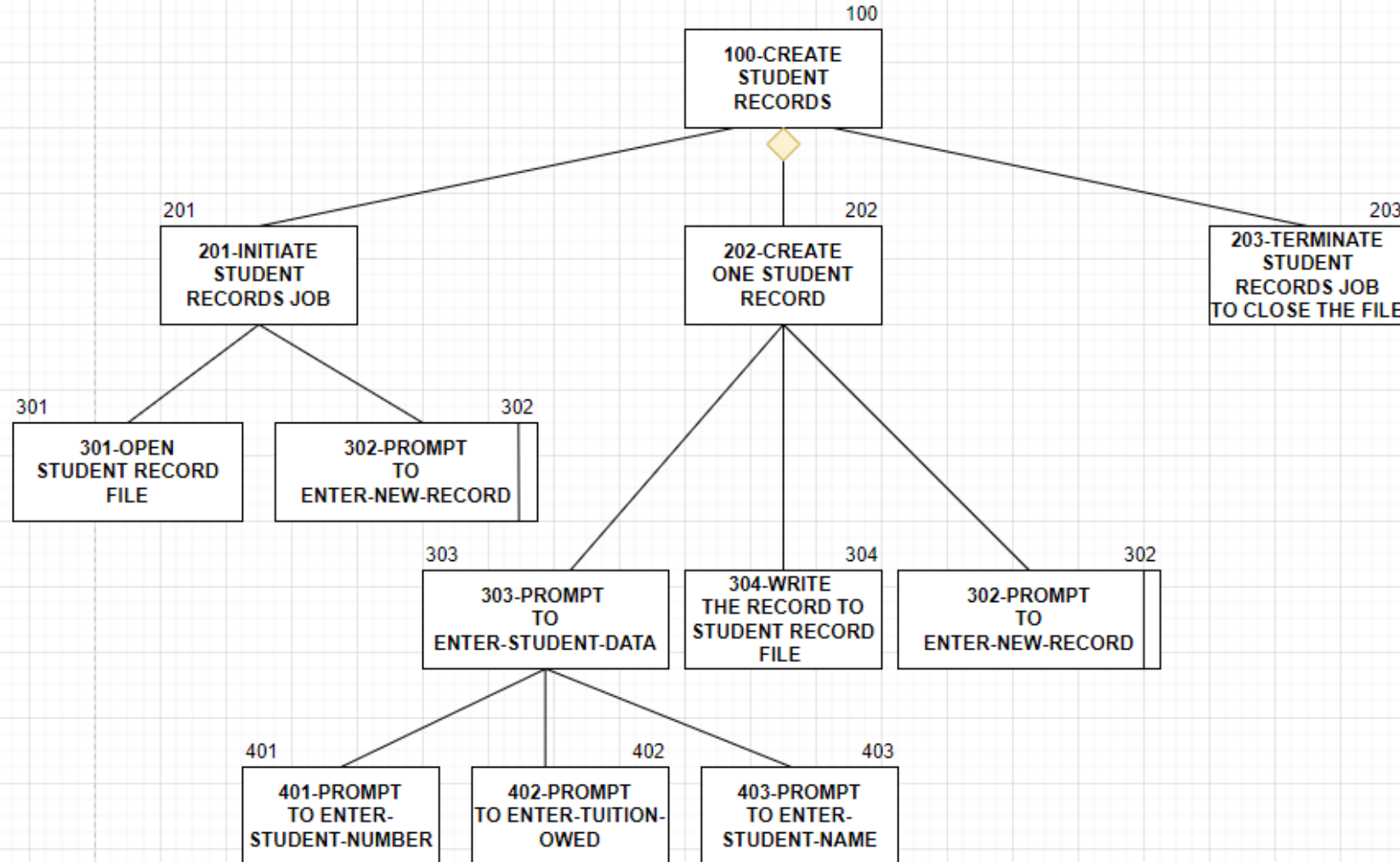
Graphed by Changhong Li (041071022),
Zhuoran Liu (041020959),
Haiyan Yang (041067613).

FUNCTION

PROCESSES

ACTIVITIES

TASKS

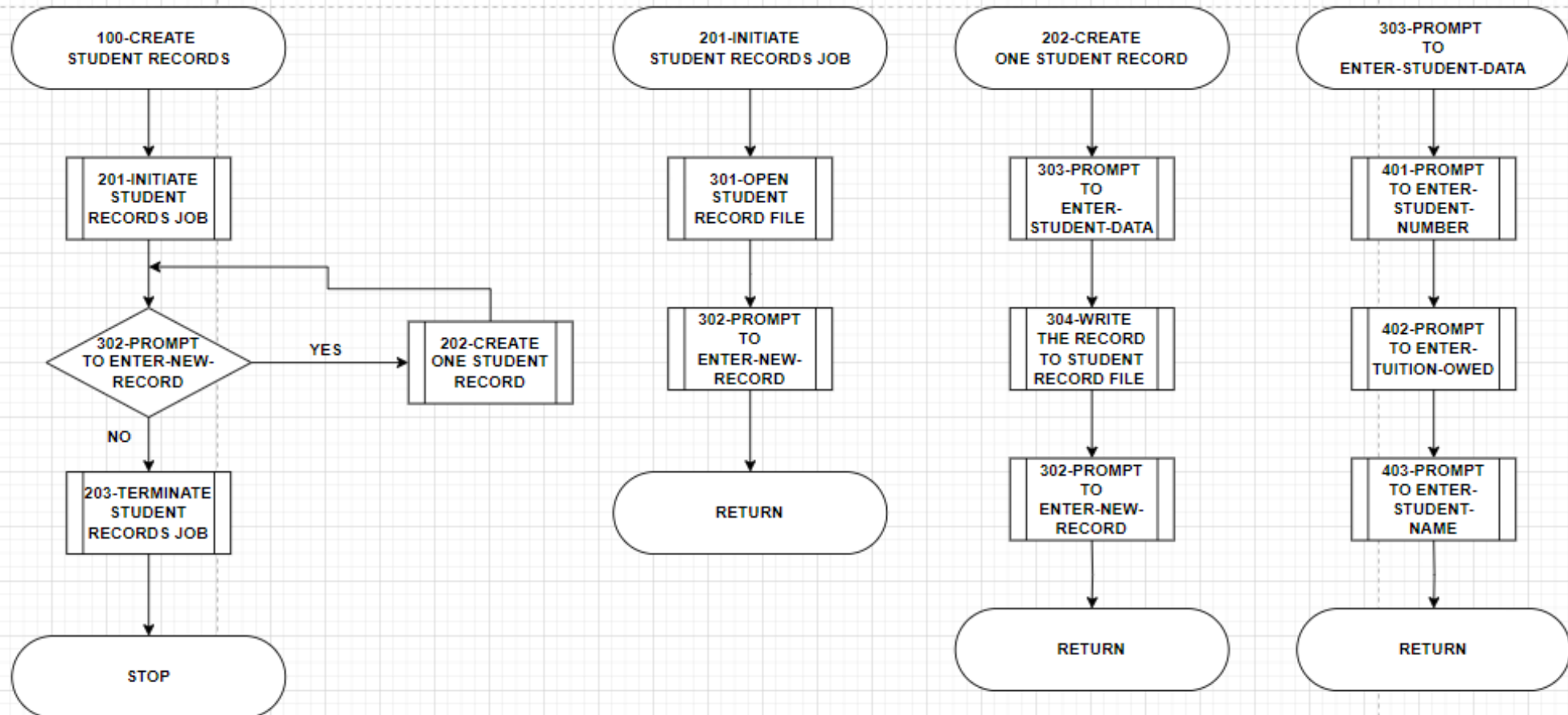


PROJECT 1

Hierarchy Chart

Created the Hierarchy Chart to outline the COBOL program's structure, showing the flow of control and the sequence of steps involved in creating the STUDENT RECORDS file.

FLOWCHARTS OF PROJECT 1



PROJECT 1. CREATE STUDENT RECORD PROGRAM

Professor: Jason Mombourquette

Student Name: Changhong Li (041071022), Zhuoran Liu (041020959), Haiyan Yang (041067613).

PROJECT 1
COBOL CODE

* Author: CHANGHONG LI(041071022),
* HAIYAN YANG(041067613),
* ZHUORAN LIU(041020959)
* Date: JUNE 03, 2023
* Purpose: CST8283_310_312_PROJECT_1
* Tectonics: cobc

IDENTIFICATION DIVISION.
PROGRAM-ID. STUDENT-RECORD-PROGRAM.

* Declares the ENVIRONMENT DIVISION, INPUT-OUT SECTION and
* FILE-CONTROL paragraph.
* Uses SELECT statement to establish the link between the
* COBOL program and the external file via a reference.

ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.

 SELECT STUDENT-RECORD-OUT
 ASSIGN TO "../STUREC.TXT"
 ORGANIZATION IS LINE SEQUENTIAL.

DATA DIVISION.
FILE SECTION.
FD STUDENT-RECORD-OUT.
01 STUDENT-RECORD.
 05 STUDENT-NUMBER PIC 9(7).
 05 TUITION-OWED PIC 9(5).
 05 STUDENT-NAME PIC X(40).
WORKING-STORAGE SECTION.
01 CONTROL-FIELDS.
 05 PROMPT-RESPONSE PIC A(1).

PROCEDURE DIVISION.
100-CREATE-STUDENT-RECORDS.
 PERFORM 201-INITIATE-STUDENT-RECORDS.
 PERFORM 202-CREATE-ONE-STUDENT-RECORD
 UNTIL PROMPT-RESPONSE = "N" OR "n".
 PERFORM 203-TERMINATE-STUDENT-RECORDS.
 STOP RUN.

201-INITIATE-STUDENT-RECORDS.
 PERFORM 301-OPEN-FILE.
 PERFORM 302-PROMPT-NEW-RECORD.

PROJECT 1

COBOL CODE

```
202-CREATE-ONE-STUDENT-RECORD.  
    PERFORM 303-PROMPT-STUDENT-DATA.  
    PERFORM 304-WRITE-RECORD.  
    PERFORM 302-PROMPT-NEW-RECORD.
```

```
203-TERMINATE-STUDENT-RECORDS.  
    CLOSE STUDENT-RECORD-OUT.
```

```
301-OPEN-FILE.  
    OPEN OUTPUT STUDENT-RECORD-OUT.
```

```
302-PROMPT-NEW-RECORD.  
    DISPLAY "Do you want to create a new student record? (Y/N)".  
    ACCEPT PROMPT-RESPONSE.
```

```
303-PROMPT-STUDENT-DATA.  
    DISPLAY "Please enter the student number: ".  
    ACCEPT STUDENT-NUMBER.  
    DISPLAY "Please enter the tuition owed: ".  
    ACCEPT TUITION-OWED.  
    DISPLAY "Please enter the student's name: ".  
    ACCEPT STUDENT-NAME.
```

```
304-WRITE-RECORD.  
    WRITE STUDENT-RECORD.
```

```
END PROGRAM STUDENT-RECORD-PROGRAM.
```



Project1_COBOL.cbl

```
58
59 303-PROMPT-STUDENT-DATA.
60     DISPLAY "Please enter the student number: ".
61     ACCEPT STUDENT-NUMBER.
62     DISPLAY "Please enter the tuition owed: ".
63     ACCEPT TUITION-OWED.
64     DISPLAY "Please enter the student name: ".
65     ACCEPT STUDENT-NAME.
66
67 304-WRITE-RECORD.
68     WRITE STUDENT-RECORD.
69
70 END PROGRAM STUDENT-RECORD-PROGRAM.
71
```

Logs

Compiler Issues Output

```
C:\Users\chang\bin\Project1_COBOL.exe
Do you want to create a new student record? (Y/N)
Y
Please enter the student number:
1234567
Please enter the tuition owed:
10000
Please enter the student name:
Smith, Donald
Do you want to create a new student record? (Y/N)
Y
Please enter the student number:
1234578
Please enter the tuition owed:
19000
Please enter the student name:
Johnson, Herman
Do you want to create a new student record? (Y/N)
N
```

Process finished with exit code 0

PROJECT 1

Screen Shot of Execution In OpenCobolIDE