

SOFTWARE DESIGN DOCUMENT (SDD)

FOR THE

C3 (Crafting Cost Calculator)

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1 SCOPE

This section shall be divided into the following paragraphs:

1.1 Identification

System Number :
System Name : Crafting Cost Calculator
System Abbreviation : C³

C³ Number : N/A
C³ Name : N/A
C³ Abbreviation : N/A

1.2 System Overview

Purpose of the system:

The system name is "Crafting Cost Calculator(C³).C³ was developed for everyone who is working on a project that requires a number of months and cost estimations to deliver a complete project. It can calculate the cost of the production required to make the project and the duration of the project to be done. Other than that, it also will estimate the number of people that are required to develop the project.

The system shall:

- Accept the number of user input and outputs, user inquiries number of internal files and number of external files.
- Accept the rate entered by user for 14 General System Characteristic(GSC)
- Calculate the Unadjusted Function Points (UFP) , Adjusted Function Point (AFP) and Function Points(FP) based on the user rating for the General System Characteristic(GSC).
- Accept the language chosen by the user.
- Calculate KLOC based on language chosen and effort.
- Accept the application type chosen by the user.
- Calculate the effort and time development required based on the chosen type of application.
- Calculate the number of staff required for a month and the number of staff required for the whole project based on the effort and time development of the project.
- Calculate the cost estimation for the project.
- Display the result of all the calculations for the user.
- Save the result of the calculation in a file

1.3 Document Overview

This document describes the interaction between the actors with the C³. Analysis of the requirement applying to C³ relies on ODAD UML notation using the WhiteStar UML tool and Star UML tool. Certain elements resulting from this analysis are presented in this document.

Chapter 1 Describe the Scope, identification, system overview, document overview.

Chapter 2 Describe the Referenced documents, government documents and non-government documents

Chapter 3 Describe the Preliminary Design

Chapter 4 Describe the Detail Design

Chapter 5 Describe the Data

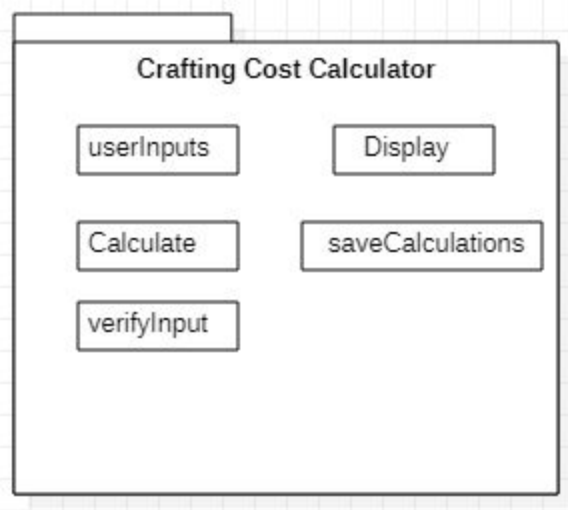
Chapter 6 Describe Requirement Traceability

2 REFERENCED MATERIAL

- https://eusmartcities.eu/sites/default/files/201709/EIP_RequirementsSpecificationGLA_%20V2-5.pdf
- <http://groups.umd.umich.edu/cis/course.des/cis375/projects/fp99/main.html>
- <https://www.javatpoint.com/cocomo-model>
- <https://ufuture.uitm.edu.my>

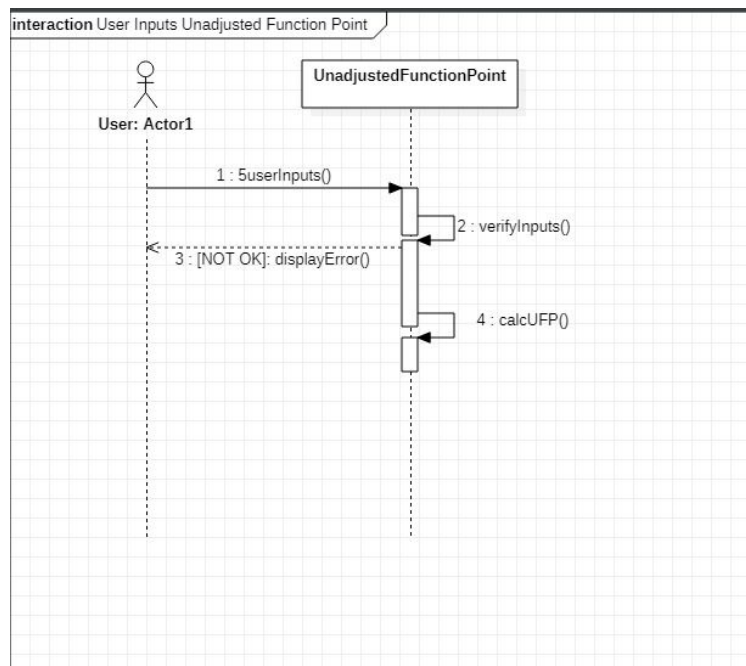
3 PRELIMINARY DESIGN

3.0 C³ Overview

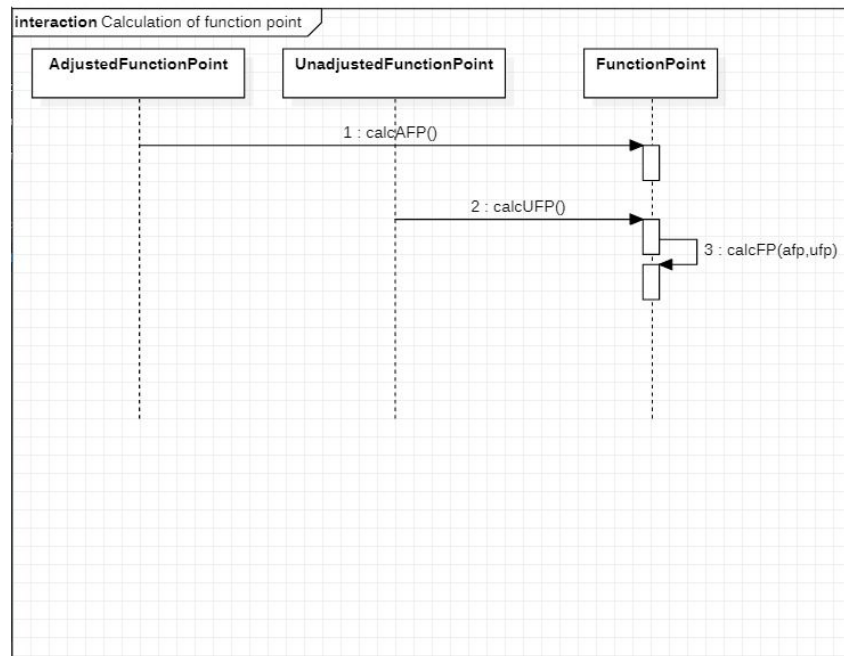


3.1 Sequence Diagram

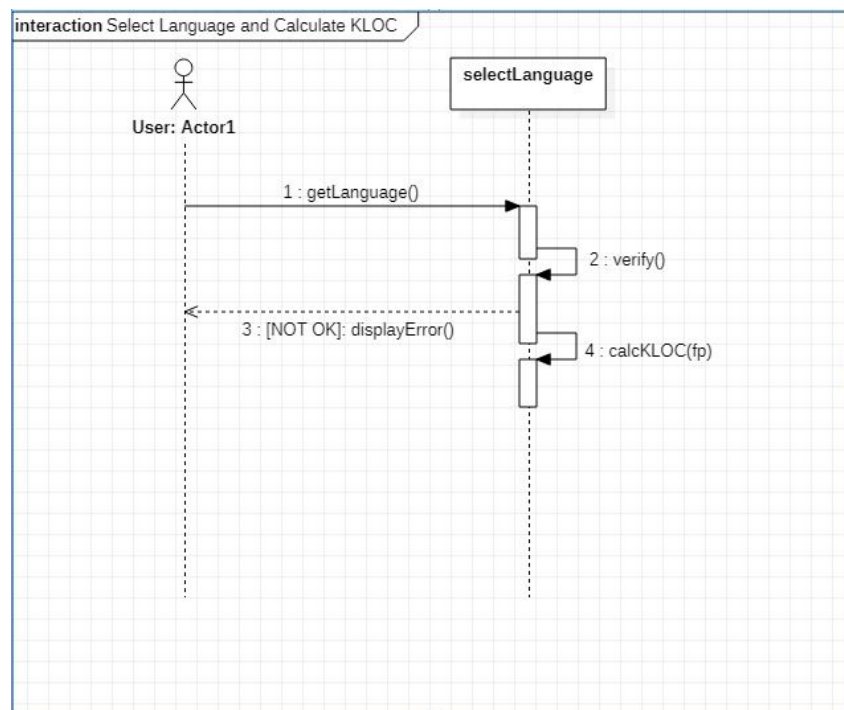
3.1.1 User Inputs Unadjusted Function Point



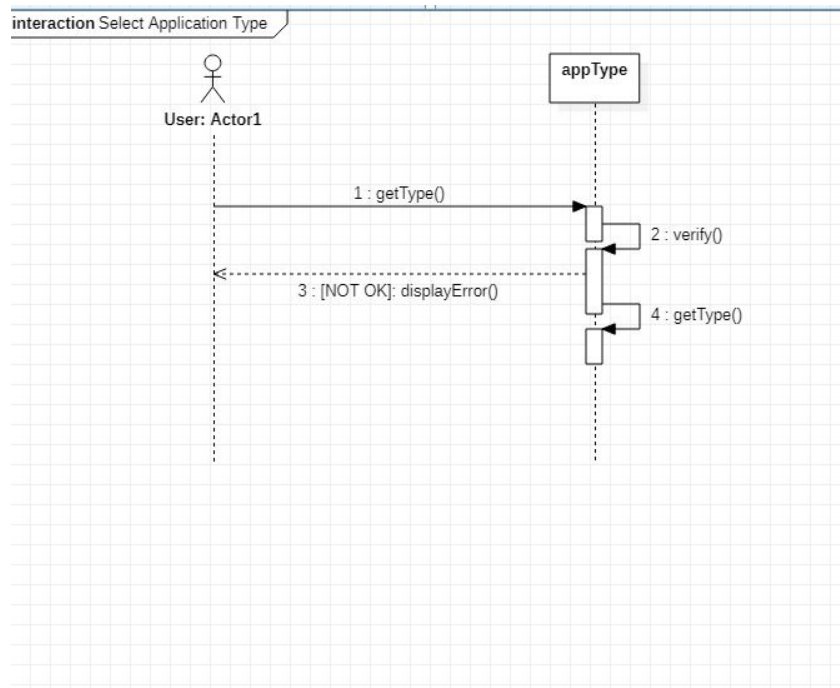
3.1.2 Calculation of Function Point



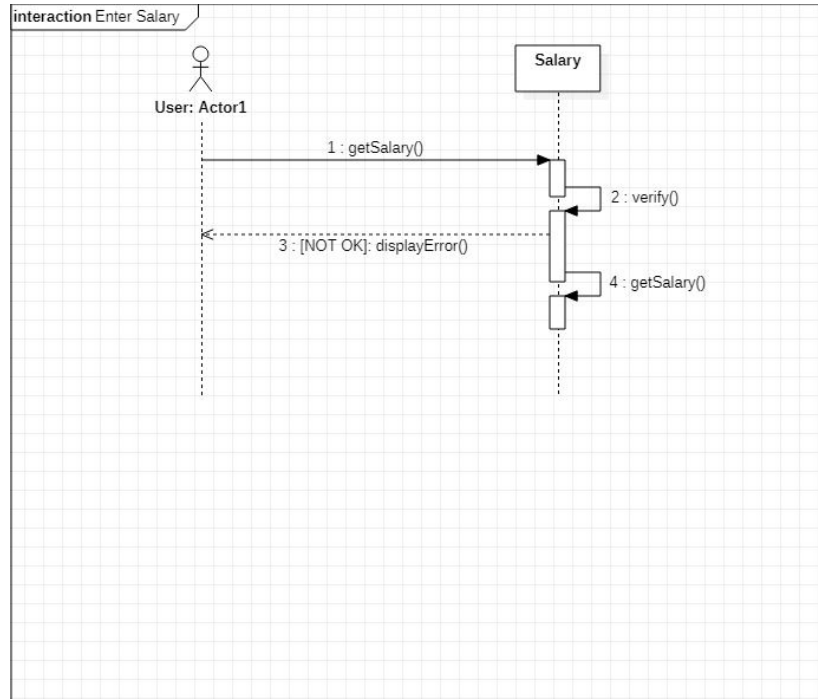
3.1.3 Select Language and Calculate KLOC



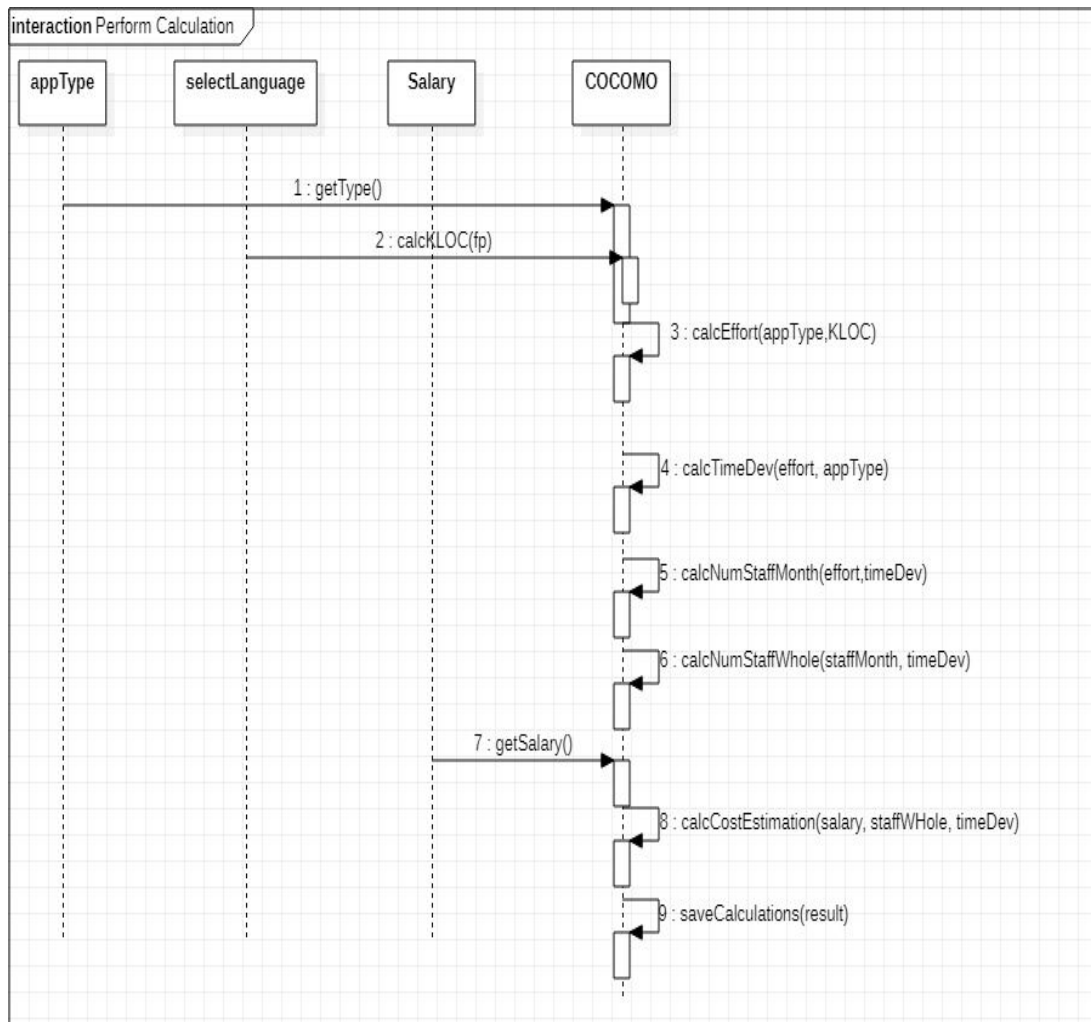
3.1.4 Select Application Type



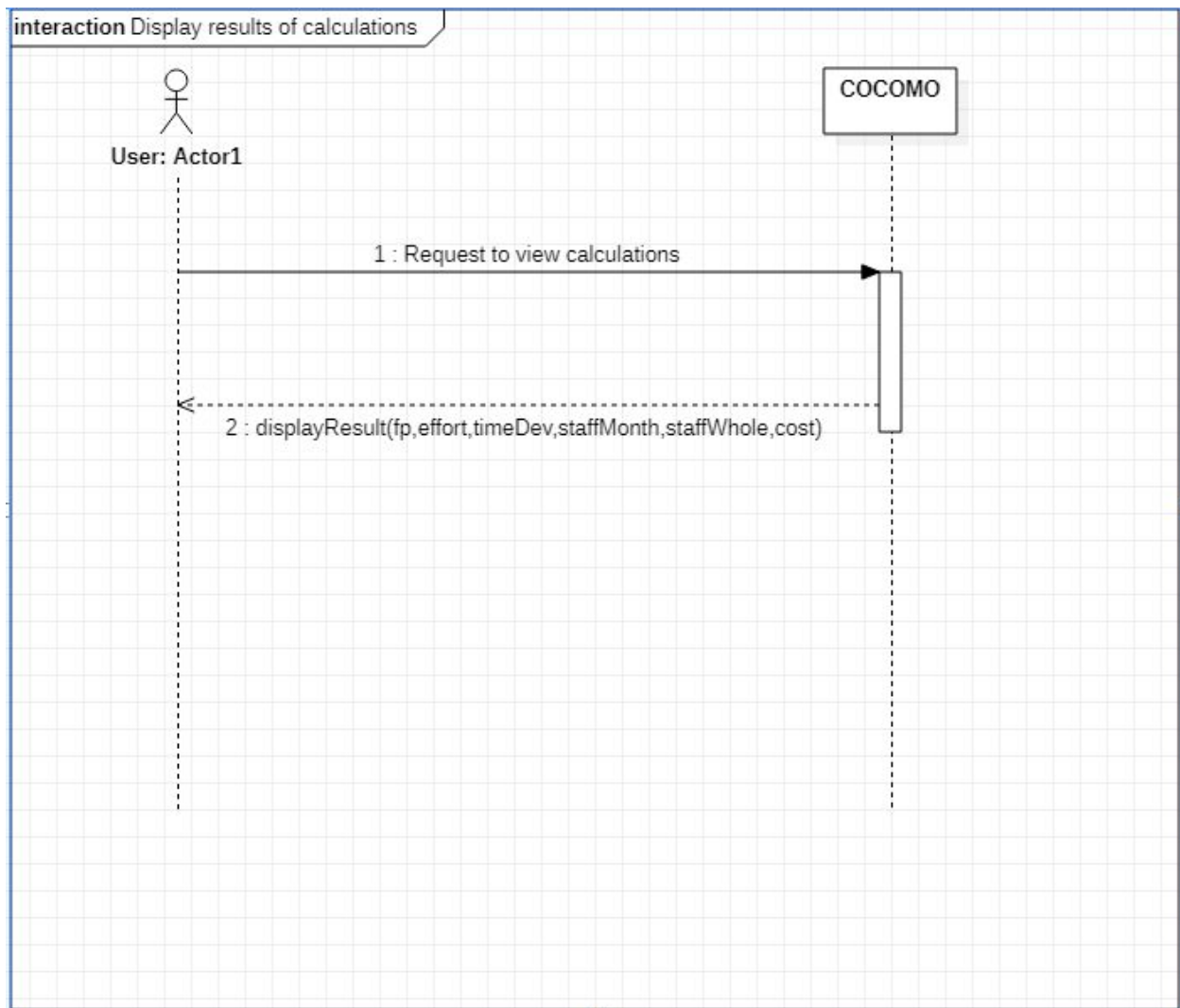
3.1.5 Enter Salary



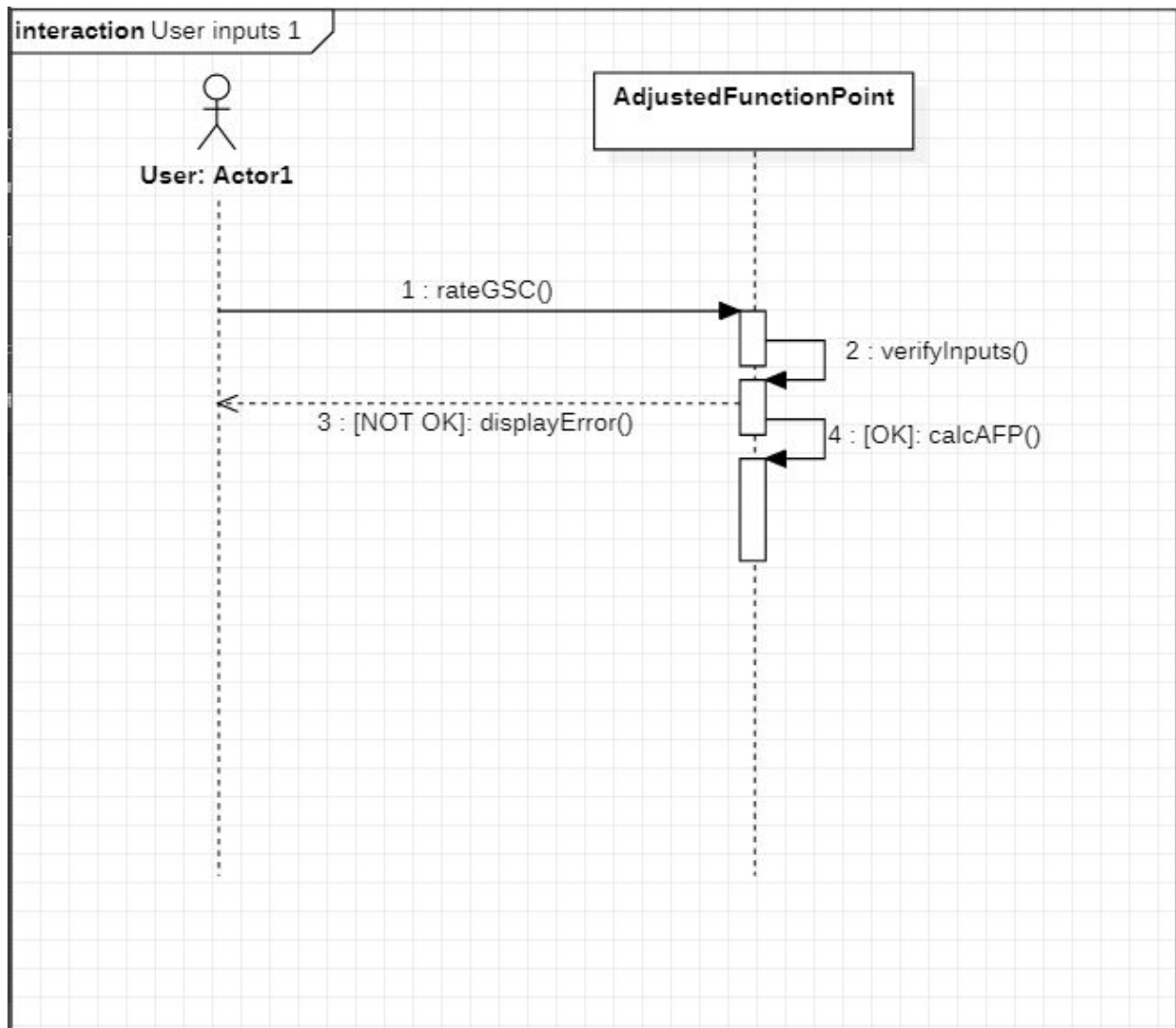
3.1.6 Perform Calculation



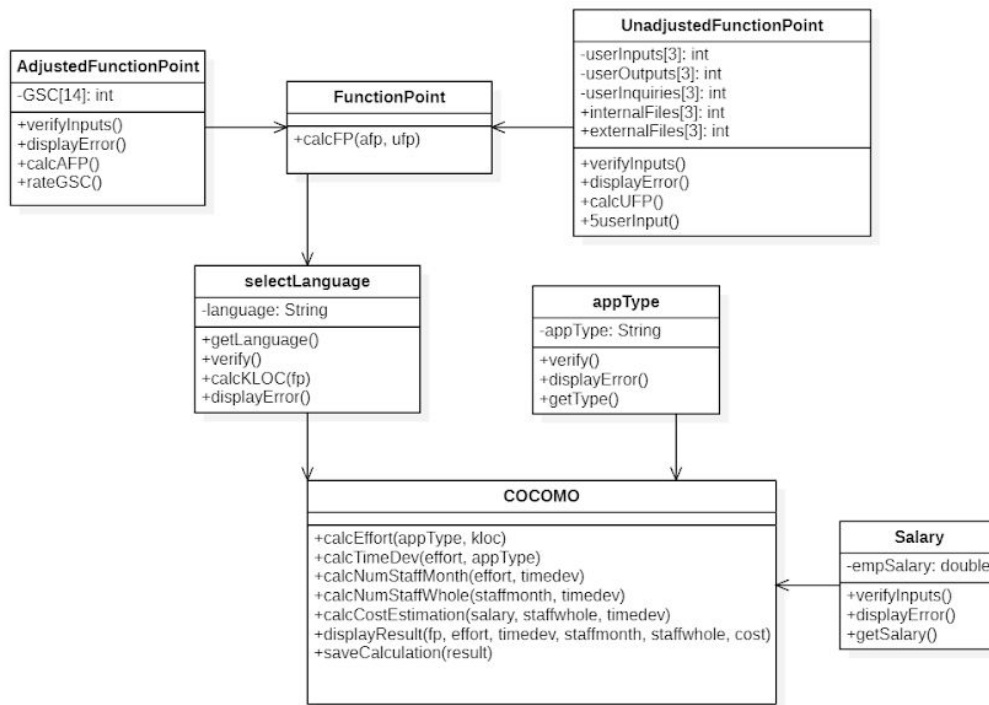
3.1.7 Display Results of Calculations



3.1.8 User inputs Adjusted Function Point



3.2 Class diagram



4 DETAILED DESIGN

4.1 C³ Structural Diagram

4.1.1 userInput()

Methods purpose: To receive value in unadjusted function point input by user

Argument: None

Return value: None

Algorithm: BEGIN
 INPUT user inputs number for userInputs
 STORE the user input in userInputs[] variable
 INPUT user inputs userOutputs
 STORE the user input in userOutputs[] variable
 INPUT user inputs userInquiries
 STORE the user input in userInquiries[] variable
 INPUT user inputs internalFiles
 STORE the user input in internalFiles[] variable
 INPUT user inputs externalFiles
 STORE the user input in externalFiles[] variable
 END

4.1.2 verifyInputs()

Methods purpose: To check existence value in unadjusted function point input by user

Argument: None

Return value: None

Algorithm: BEGIN
 Set check to true
 FOR A IN 0 to 2
 IF userInputs[A] IS NULL
 Set check to false
 END IF
 END FOR
 FOR A IN 0 to 2
 IF userOutputs[A] IS NULL
 Set check to false
 END IF
 END FOR
 FOR A IN 0 to 2
 IF userInquiries[A] IS NULL
 Set check to false
 END IF
 END FOR

```

        FOR A IN 0 to 2
            IF internalFiles[A] IS NULL
                Set check to false
            END IF
        END FOR
        FOR A IN 0 to 2
            IF externalFiles[A] IS NULL
                Set check to false
            END IF
        END FOR
        IF check IS false
            Call function displayError()
        END IF
    END

```

4.1.3 displayError()

Method purpose: To display error message for unadjusted function point existence if user does not enter required inputs

Argument: None

Return value: None

Algorithm: BEGIN
 Display "Please input value for unadjusted function point"
 END

4.1.4 rateGSC()

Methods purpose: To receive value in adjusted function point input by user

Argument: None

Return value: None

Algorithm: BEGIN
 INPUT user rate number for GSC
 STORE the user input in GSC[] variable
 END

4.1.5 calcUFP()

Method purpose: To calculate unadjusted function point

Argument: None

Return value: double ufp

```
Algorithm:  BEGIN
            EI=(userInputs[0]*3)+(userInputs[1]*4)+(userInputs[2]*6)
            EO=(userOutputs[0]*4)+(userOutputs[1]*5)+(userOutputs[2]*7)
            EQ=(userInquiries[0]*3)+(userInquiries[1]*4)+(userInquiries[2]*6)
            ILF=(internalFiles[0]*7)+(internalFiles[1]*10)+(internalFiles[2]*15)
            EIF=(externalFiles[0]*5)+(externalFiles[1]*7)+(externalFiles[2]*10)
            ufp=EI+EO+EQ+ILF+EIF
            RETURN ufp
        END
```

4.1.6 verifyInputs()

Methods purpose: To check existence value in adjusted function point input by user

Argument: None

Return value: None

```
Algorithm:  BEGIN
            Set check to true
            FOR A IN 0 to 13
                IF GSC[A] IS NULL AND GSC[A] >=0 AND GSC[A] <=5
                    Set check to false
                END IF
            END FOR
            IF check IS false
                Call function displayError()
            END IF
        END
```


4.1.7 displayError()

Method purpose: To display error message for adjusted function point existence if user does not enter required inputs

Argument: None

Return value: None

Algorithm: BEGIN
 Display "Please rate General System Characteristic(GSC)"
 END

4.1.8 calcAFP()

Method purpose : To calculate Adjusted Function Point

Argument : None

Return value : double afp

Algorithm : BEGIN
 Set total to zero
 FOR A IN 0 to 13
 total+=GSC[A]
 END FOR
 afp=0.65+(0.01*total)
 RETURN afp
 END

4.1.9 calcFP(AFP, UFP)

Method purpose: To calculate Function Point

Argument: afp:double from calcAFP() while ufp:double from calcUFP()

Return value: double fp

Algorithm: BEGIN
 fp= AFP * UFP
 RETURN fp
 END

4.1.10 verify()

Method purpose: To verify existence choice of language input by user.

Argument: None

Return value: None

```
Algorithm:  BEGIN
            Set check to true
            IF language IS NULL
                Set check to false
            END IF
            IF check IS false
                Call function displayError()
            END IF
        END
```

4.1.11 displayError()

Method purpose: To display error message for language existence if user does not enter required inputs

Argument: None

Return value: None

```
Algorithm:  BEGIN
            Display "Choose Language"
        END
```

4.1.12 getLanguage()

Method purpose: To get language from user input

Argument: None

Return value: String language

```
Algorithm:  BEGIN
            ENTER language
            RETURN language
        END
```

4.1.13 calcKLOC(FP)

Method purpose: To calculate KLOC based on selected language

Argument: FP:int from calcFP(AFP,UFP)

Return value: int kloc

```
Algorithm:  BEGIN
            CASE language OF
                Access                : loc = 38
                Basic                  : loc = 107
                C                      : loc = 128
                C++                    : loc = 53
                COBOL                  : loc = 107
                Delphi                  : loc = 29
                Java                    : loc = 53
                Machine Language       : loc = 640
                Visual Basic 5         : loc = 29
            ENDCASE
            kloc= FP*loc/1000
            RETURN kloc
        END
```

4.1.14 verify()

Method purpose: To verify existence choice of application type by user.

Argument: None

Return value: None

```
Algorithm:  BEGIN
            Set check to true
            IF appType IS NULL
                Set check to false
            END IF
            IF check IS false
                Call function displayError()
            END IF
        END
```

4.1.15 displayError()

Method purpose: To display error message for language existence if user does not enter required inputs

Argument: None

Return value: None

Algorithm: BEGIN
 Display "Choose Application Type"
 END

4.1.16 getType()

Method purpose: To get application type from user input

Argument: None

Return value: String appType

Algorithm: BEGIN
 ENTER appType
 RETURN appType
 END

4.1.17 verifyInputs()

Methods purpose: To check existence value for salary input by user

Argument: None

Return value: None

Algorithm: BEGIN
 Set check to true
 IF empSalary IS NULL
 Set check to false
 END IF
 IF check IS false
 Call function displayError()
 END IF
 END

4.1.18 displayError()

Method purpose: To display error message for empSalary existence if user does not enter required inputs

Argument: None

Return value: None

Algorithm: BEGIN
 Display "Please enter the salary for each employee"
 END

4.1.19 getSalary()

Method purpose: To get language from user input

Argument: None

Return value: double empSalary

Algorithm: BEGIN
 ENTER empSalary
 RETURN empSalary
 END

4.1.20 calcEffort(appType, kloc)

Method purpose: To calculate the effort for the project based on the type of application.

Argument: appType:String from getType() and kloc:int from calcKLOC(fp)

Return value: double effort

Algorithm: BEGIN
 CASE appType OF
 Organic : a = 2.4
 Semidetached : a = 3.0
 Embedded : a = 3.6
 ENDCASE
 CASE appType OF
 Organic : b = 1.05
 Semidetached : b = 1.12
 Embedded : b = 1.20
 ENDCASE
 effort= a(kloc) ^ b
 RETURN effort
 END

4.1.21 calcTimeDev(effort,AppType)

Method purpose: To calculate the time development based on the type of application

Argument: effort:double from calcEffort(appType,kloc)

Return value: double timedev

```
Algorithm:  BEGIN
            CASE appType OF
                Organic           : c = 2.5
                Semidetached      : c = 2.5
                Embedded          : c = 2.5
            ENDCASE
            CASE appType OF
                Organic           : d = 0.38
                Semidetached      : d = 0.35
                Embedded          : d = 0.32
            ENDCASE
            timedev= c(effort) ^d
            RETURN timedev
        END
```

4.1.22 calcNumStaffMonth(effort,timedev)

Method purpose: To calculate the number of staff required in a month.

Argument: effort:double from calcEffort(appType,kloc) and timedev:double from calcTimeDev(effort,appType)

Return value: double staffmonth

```
Algorithm:  BEGIN
            staffmonth= effort / timedev
            RETURN staffmonth
        END
```

4.1.23 calcNumStaffWhole(staffmonth,timedev)

Method purpose: To calculate the number of staff required for the whole project.

Argument: staffmonth:double from calcStaffMonth(effort,timedev) and timedev:double from calcTimeDev(effort,appType)

Return value: double staffwhole

```
Algorithm:  BEGIN
            staffwhole= staffmonth / timedev
            RETURN staffwhole
        END
```

4.1.24 calcCostEstimation(salary,staffwhole,timedev)

Method purpose: To calculate the number of staff required for the whole project.

Argument:salary:double from getSalary(), staffwhole:double from calcStaffWhole(staffmonth,timedev) and timedev:double from calcTimeDev(effort,appType)

Return value: double cost

Algorithm: BEGIN
 cost=salary*staffwhole*timedev
 RETURN cost
 END

4.1.25 displayResults(fp,effort,timedev,staffmonth,staffwhole,cost)

Method purpose: To display the results of the calculation

Argument: fp:double from calcFP(AFP,UFP) ,salary:double from getSalary(), staffwhole:double from calcStaffWhole(staffmonth,timedev) ,staffwhole:double from calcStaffWhole(staffmonth,timedev),timedev:double from calcTimeDev(effort,appType) and cost:double from calcCostEstimation(salary,staffwhole,timedev).

Return value: double cost

Return value: None

Algorithm: BEGIN
 Display fp, effort ,salary, timedev,staffmonth,staffwhole ,cost
 END

4.1.26 saveCalculations(result)

Method purpose: To save all the calculations done by the user.

Argument: result from displayResults(fp,effort,timedev,staffmonthstaffwhole,cost)

Return value: None

Algorithm: BEGIN
 SAVE result in file
 END

5 DATA

5.1 Data input

5.1.1 userInputs[3] for UnadjustedFunctionPoint

- Number start from 0
- Operator include multiplication and addition

5.1.2 userOutputs[3] for UnadjustedFunctionPoint

- Number start from 0
- Operator include multiplication and addition

5.1.3 userInquiries[3] for UnadjustedFunctionPoint

- Number start from 0
- Operator include multiplication and addition

5.1.4 internalFiles[3] for UnadjustedFunctionPoint

- Number start from 0
- Operator include multiplication and addition

5.1.5 externalFiles[3] for UnadjustedFunctionPoint

- Number start from 0
- Operator include multiplication and addition

5.1.6 GSC[14] for AdjustedFunctionPoint

- Number from 0 to 5
- Operator include multiplication and addition

5.1.7 language for selectLanguage

- Choose the language between Access, Basic, C, C++, COBOL, Delphi, Java, Machine Language and Visual Basic 5

5.1.8 appType for appType

- Choose the appType between Organic, Semidetached and Embedded

5.1.9 empSalary for Salary

- Number start from 0

5.2 Data Output

5.2.1 Function point

- The answer calculated after performing multiplication of ufp and afp

5.2.2 Effort

- The answer calculated after performing multiplication and exponent of KLOC, value of a and b based on appType

5.2.3 Time development

- The answer calculated after performing multiplication of effort, value of a and b based on appType

5.2.4 Number of staff for a month

- The answer calculated after performing division between effort and time development

5.2.5 Number of staff for whole project

- The answer calculated after performing division between number of staff in a month and time development

5.2.6 Cost estimation

- The answer calculated after performing multiplication of salary, number of staff for the whole project and time development.

6 REQUIREMENT TRACEABILITY

REQUIREMENT

Source	Allocated	Description
Lecture Notes of StarUML using UML	SRS_REQ_1 <ul style="list-style-type: none">• SRS_REQ_1_1• SRS_REQ_1_2• SRS_REQ_1_3• SRS_REQ_1_4• SRS_REQ_1_5	Enter inputs for unadjusted function point(ufp)
Lecture Notes of StarUML using UML	SRS_REQ_2 <ul style="list-style-type: none">• SRS_REQ_2_1• SRS_REQ_2_2• SRS_REQ_2_3• SRS_REQ_2_4• SRS_REQ_2_5• SRS_REQ_2_6• SRS_REQ_2_7• SRS_REQ_2_8• SRS_REQ_2_9• SRS_REQ_2_10• SRS_REQ_2_11• SRS_REQ_2_12	Enter inputs for adjusted function point(afp)
Lecture Notes of StarUML using UML	SRS_REQ_3 <ul style="list-style-type: none">• SRS_REQ_3_1• SRS_REQ_3_2• SRS_REQ_3_3• SRS_REQ_3_4• SRS_REQ_3_5• SRS_REQ_3_6• SRS_REQ_3_7• SRS_REQ_3_8• SRS_REQ_3_9• SRS_REQ_3_10• SRS_REQ_3_11• SRS_REQ_3_12• SRS_REQ_3_13• SRS_REQ_3_14• SRS_REQ_3_15	Calculate for unadjusted function point(ufp)

	<ul style="list-style-type: none"> • SRS_REQ_3_16 	
Lecture Notes of StarUML using UML	SRS_REQ_4 <ul style="list-style-type: none"> • SRS_REQ_4_1 	Calculate for adjusted function point(afp)
Lecture Notes of StarUML using UML	SRS_REQ_5 <ul style="list-style-type: none"> • SRS_REQ_5_1 	Calculate for function point(fp)
Lecture Notes of StarUML using UML	SRS_REQ_6 <ul style="list-style-type: none"> • SRS_REQ_6_1 	Select language
Lecture Notes of StarUML using UML	SRS_REQ_7 <ul style="list-style-type: none"> • SRS_REQ_7_1 	Calculate KLOC
Lecture Notes of StarUML using UML	SRS_REQ_8 <ul style="list-style-type: none"> • SRS_REQ_8_1 	Select application type
Lecture Notes of StarUML using UML	SRS_REQ_9 <ul style="list-style-type: none"> • SRS_REQ_9_1 	Calculate effort based on type of application
Lecture Notes of StarUML using UML	SRS_REQ_10 <ul style="list-style-type: none"> • SRS_REQ_10_1 	Calculate time development based on type of application
Lecture Notes of StarUML using UML	SRS_REQ_11 <ul style="list-style-type: none"> • SRS_REQ_11_1 	Calculate number of staff required in a month
Lecture Notes of StarUML using UML	SRS_REQ_12 <ul style="list-style-type: none"> • SRS_REQ_12_1 	Enter salary for a person per month
Lecture Notes of StarUML using UML	SRS_REQ_13 <ul style="list-style-type: none"> • SRS_REQ_13_1 	Calculate number of staff required in the project
Lecture Notes of StarUML using UML	SRS_REQ_14 <ul style="list-style-type: none"> • SRS_REQ_14_1 	Calculate cost estimation for the project
Lecture Notes of StarUML using UML	SRS_REQ_15 <ul style="list-style-type: none"> • SRS_REQ_15_1 	Display result of calculation of the project for user
Lecture Notes of StarUML using UML	SRS_REQ_16 <ul style="list-style-type: none"> • SRS_REQ_16_1 	Save result of calculations for user in file

DESIGN

Source	Allocated	Description
Lecture Notes of StarUML using UML	SRS_DES_1 <ul style="list-style-type: none"> SRS_DES_1_1 SRS_DES_1_2 SRS_DES_1_3 SRS_DES_1_4 SRS_DES_1_5 	Enter inputs for unadjusted function point(ufp)
Lecture Notes of StarUML using UML	SRS_DES_2 <ul style="list-style-type: none"> SRS_DES_2_1 SRS_DES_2_2 SRS_DES_2_3 SRS_DES_2_4 SRS_DES_2_5 SRS_DES_2_6 SRS_DES_2_7 SRS_DES_2_8 SRS_DES_2_9 SRS_DES_2_10 SRS_DES_2_11 SRS_DES_2_12 	Enter inputs for adjusted function point(afp)
Lecture Notes of StarUML using UML	SRS_DES_3 <ul style="list-style-type: none"> SRS_DES_3_1 SRS_DES_3_2 SRS_DES_3_3 SRS_DES_3_4 SRS_DES_3_5 SRS_DES_3_6 SRS_DES_3_7 SRS_DES_3_8 SRS_DES_3_9 SRS_DES_3_10 SRS_DES_3_11 SRS_DES_3_12 SRS_DES_3_13 SRS_DES_3_14 SRS_DES_3_15 SRS_DES_3_16 	Calculate for unadjusted function point(ufp)
Lecture Notes of StarUML using UML	SRS_DES_4 <ul style="list-style-type: none"> SRS_DES_4_1 	Calculate for adjusted function point(afp)

Lecture Notes of StarUML using UML	SRS_DES_5 <ul style="list-style-type: none"> • SRS_DES_5_1 	Calculate for function point(fp)
Lecture Notes of StarUML using UML	SRS_DES_6 <ul style="list-style-type: none"> • SRS_DES_6_1 	Select language
Lecture Notes of StarUML using UML	SRS_DES_7 <ul style="list-style-type: none"> • SRS_DES_7_1 	Calculate KLOC
Lecture Notes of StarUML using UML	SRS_DES_8 <ul style="list-style-type: none"> • SRS_DES_8_1 	Select application type
Lecture Notes of StarUML using UML	SRS_DES_9 <ul style="list-style-type: none"> • SRS_DES_9_1 	Calculate effort based on type of application
Lecture Notes of StarUML using UML	SRS_DES_10 <ul style="list-style-type: none"> • SRS_DES_10_1 	Calculate time development based on type of application
Lecture Notes of StarUML using UML	SRS_DES_11 <ul style="list-style-type: none"> • SRS_DES_11_1 	Calculate number of staff required in a month
Lecture Notes of StarUML using UML	SRS_DES_12 <ul style="list-style-type: none"> • SRS_DES_12_1 	Enter salary for a person per month
Lecture Notes of StarUML using UML	SRS_DES_13 <ul style="list-style-type: none"> • SRS_DES_13_1 	Calculate number of staff required in the project
Lecture Notes of StarUML using UML	SRS_DES_14 <ul style="list-style-type: none"> • SRS_DES_14_1 	Calculate cost estimation for the project
Lecture Notes of StarUML using UML	SRS_DES_15 <ul style="list-style-type: none"> • SRS_DES_15_1 	Display result of calculation of the project for user
Lecture Notes of StarUML using UML	SRS_DES_16 <ul style="list-style-type: none"> • SRS_DES_16_1 	Save result of calculations for user in file

TEST

Source	Allocated	Description
Lecture Notes of StarUML using UML	SRS_TEST_1 <ul style="list-style-type: none"> • SRS_TEST_1_1 • SRS_TEST_1_2 • SRS_TEST_1_3 • SRS_TEST_1_4 • SRS_TEST_1_5 	Enter inputs for unadjusted function point(ufp)
Lecture Notes of StarUML using UML	SRS_TEST_2 <ul style="list-style-type: none"> • SRS_TEST_2_1 • SRS_TEST_2_2 • SRS_TEST_2_3 • SRS_TEST_2_4 • SRS_TEST_2_5 • SRS_TEST_2_6 • SRS_TEST_2_7 • SRS_TEST_2_8 • SRS_TEST_2_9 • SRS_TEST_2_10 • SRS_TEST_2_11 • SRS_TEST_2_12 	Enter inputs for adjusted function point(afp)
Lecture Notes of StarUML using UML	SRS_TEST_3 <ul style="list-style-type: none"> • SRS_TEST_3_1 • SRS_TEST_3_2 • SRS_TEST_3_3 • SRS_TEST_3_4 • SRS_TEST_3_5 • SRS_TEST_3_6 • SRS_TEST_3_7 • SRS_TEST_3_8 • SRS_TEST_3_9 • SRS_TEST_3_10 • SRS_TEST_3_11 • SRS_TEST_3_12 • SRS_TEST_3_13 • SRS_TEST_3_14 • SRS_TEST_3_15 • SRS_TEST_3_16 	Calculate for unadjusted function point(ufp)
Lecture Notes of StarUML using UML	SRS_TEST_4 <ul style="list-style-type: none"> • SRS_TEST_4_1 	Calculate for adjusted function point(afp)

Lecture Notes of StarUML using UML	SRS_TEST_5 • SRS_TEST_5_1	Calculate for function point(fp)
Lecture Notes of StarUML using UML	SRS_TEST_6 • SRS_TEST_6_1	Select language
Lecture Notes of StarUML using UML	SRS_TEST_7 • SRS_TEST_7_1	Calculate KLOC
Lecture Notes of StarUML using UML	SRS_TEST_8 • SRS_TEST_8_1	Select application type
Lecture Notes of StarUML using UML	SRS_TEST_9 • SRS_TEST_9_1	Calculate effort based on type of application
Lecture Notes of StarUML using UML	SRS_TEST_10 • SRS_TEST_10_1	Calculate time development based on type of application
Lecture Notes of StarUML using UML	SRS_TEST_11 • SRS_TEST_11_1	Calculate number of staff required in a month
Lecture Notes of StarUML using UML	SRS_TEST_12 • SRS_TEST_12_1	Enter salary for a person per month
Lecture Notes of StarUML using UML	SRS_TEST_13 • SRS_TEST_13_1	Calculate number of staff required in the project
Lecture Notes of StarUML using UML	SRS_TEST_14 • SRS_TEST_14_1	Calculate cost estimation for the project
Lecture Notes of StarUML using UML	SRS_TEST_15 • SRS_TEST_15_1	Display result of calculation of the project for user
Lecture Notes of StarUML using UML	SRS_TEST_16 • SRS_TEST_16_1	Save result of calculations for user in file