**Objective:**

For CCS1204 – Data Structure and Algorithm

* To create a Computer Based Application for Student Information System using C/C++
* To create an effective storage using array in C/C++
* To create an effective and responsive Computer Based Application for Student Information System

For CCS3206 – Application Development and Emerging Technologies 2

* To create a Web Based Application for Student Information System using PHP
* To create an effective storage using database such as MySQL or a like
* To create an effective and responsive Web Based Application for Student Information System

For ITSP2-A Mobile Application and Development

* To create a Mobile Base Application for Student Information System using Android Studio or Eclipse or Any IDE for android development
* To create a an effective storage using SQLite as database or a like
* To create an effective and responsive Mobile Based Application for Student Information System

**Materials Needed:**

For CCS1204 – Data Structure and Algorithm

* Personal Computer or Laptop
* C/C++ compiler installed in your Personal Computer or Laptop
* Any Android C/C++ Compiler for the Mobile Phone Users
* Database (if available)

For CCS3206 – Application Development and Emerging Technologies 2

* Personal Computer or Laptop
* Xamp or Wamp Installed in your Personal Computer or Laptop
* MySQL or any database installed in your Personal Computer or Laptop
* PHP Admin

For ITSP2-A – Mobile Application Development

* Personal Computer or Laptop
* Android Studio or Eclipse Application for the Development
* SQLite or any related database structure for the Android Development

**NOTE:**

1. The following guidelines is listed below for the details and process for each module
2. Read, Understand and Follow all the instruction below for the success of Integration of module to produce the partial process of the SIS Student Information System
3. For those group who already have their program for Midterm Project you can follow the Integration Guidelines below for you to adjust all the necessary procedure for the completion of your project
4. For those group who have no program for their Midterm Project kindly refer to instructions given to the midterm project so that you can comply and cope up to the integration guidelines below
5. The final project is implemented to the following subject
   1. CCS1204 - Data Structure and Algorithm

Goal: To perform the partial process of the Student Information System using C++ programming with the implementation of array or database thru Computer Based Application

NOTE: Using Database and File Stream is optional

* 1. CCS3206 - Application Development and Emerging Technologies 2

Goal: To perform the partial process of the Student Information System with the implementation of PHP and Database thru Web Application

* 1. ITSP2A - Mobile Application and Development

Goal: To perform the partial process of the Student Information System with the implementation of Mobile Development and SQLite Database thru Mobile Application

1. The Integration of the module will be performed by the whole section, so there for the final output will be checked and graded as one group per section only
2. The Checking of the final Output of the Integrated Module will be on our last week for Finals during our last week of Virtual Class
3. Guidelines for the checking of the final output
   1. All Members must be present during the presentation of the final output, absent member/s will automatically get Zero for the Final Project
   2. All Integrated module must be running and can perform its tasks
   3. All integrated module should run first the Log-in Module and will perform the task base on the chronological order of the module listed below
      1. Admin Module
      2. Faculty Module
      3. Parent Module
      4. Student Module
   4. Avoid using the dummy data during the checking of the final output
   5. Only the assigned member/s to the specific sub-module will the one who will discuss and perform its process
   6. All data inserted to the program should be processed and manipulated by the different sub-module
   7. Grading System for the Final Project
      1. Group Grade 60 points

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| --- | --- |
| 1. Integration | 20 points |
| 1. Complete Process | 15 points |
| 1. Complete Procedure for the Sub-Module | 15 points |
| 1. Design / Flow of the Program | 10 points |

* + 1. Individual Presentation 40 points

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| --- | --- |
| 1. Knowledgeable to the assigned Sub-Module | 15 points |
| 1. Congruency to the Integrated Module | 15 points |
| 1. Clear Discussion | 10 points |

**INTEGRATION Guidelines:**

1. **Admin Module –** the admin module can manipulate or control the whole process of the Student Information System particularly to the following:
   * + 1. Registration Module – The admin can perform the CRUD (Create, Retrieve, Update and Delete) process for Faculty, Student and Parents by using the following details below:
          1. Faculty Details

First Name

Last Name

Middle Initial

Grade / Year Level

Section

Subject Handling

Contact Details

Email Address

Contact Number

User Name

Password

* + - * 1. Student Details

First Name

Last Name

Middle Initial

Grade / Year Level

Section

Contact Details

Email Address

Contact Number

User Name

Password

* + - * 1. Parent Details

First Name

Last Name

Middle Initial

Name of Child / Children

Grade / Year Level of the Child / Children

User Name

Password

* + - * 1. Registration Report – Provide a list of report per category (Faculty, Student and Parent

2. Account Module – The admin module can view and delete the accounts of the user by using the following details per category (Faculty, Student and Parent)

a. Faculty

* Name of Teacher
* Assigned Grade / Year Level
* Section
* Subject Handling
* User Name
* Password

b. Student

* Name of Student
* Assigned Grade / Year Level
* Section
* User Name
* Password

c. Parent

* Name of Parent
* Name of Child / Children
* Assigned Grade / Year Level
* Section
* User Name
* Password

d. Account Report – Provide a list of report per category (Faculty, Student and Parent)

3. Event Module – The admin can create an event as part of the School Activities use the following details below

a. Event Name

b. Event Description

c. Event Schedule

d. Event Report – Provide a list of report for the created event

4. List of Courses Module – The admin can perform the CRUD (Create, Retrieve, Update and Delete) process by using the following details

COURSE:

a. Name of Course

b. Course Description

c. Course Report – Provide a list of report for the created Course/s

SUBJECT:

1. Name of Subject
2. Subject Description
3. Subject Report – Provide a list of report for the created Subject/s

CO/EXTRACURRICULAR:

1. Co/extracurricular Name
2. Co/extracurricular Description
3. Co/extracurricular Report – Provide a list of report for the created Co/extracurricular Report

5. Announcement Module – The admin can perform the CRUD (Create, Retrieve, Update and Delete) process by using the following details

a. Announcement Name

b. Announcement Description

c. Announcement Schedule

d. Announcement Report – Provide a list of report for the created Announcement/s

NOTE: All created announcement will be posted to all of the account/s of the Admin, Faculty, Student and Parent

6. Log-in Module – The Admin module will manage all the log-in details of Faculty, Students and Parent accounts

**B. Faculty Module –**the faculty module can manipulate or control the following

1. Uploaded Lecture Module – the faculty module can perform the following

A. Subject – The faculty can choose a subject based on the created subject/s by the admin

B. The faculty can perform the CRUD (Create, Retrieve, Update and Delete) process by using the following details

* Lecture Name
* Lecture Description
* Lecture Details

NOTE: The faculty can upload a lecture thru the following file format (Text File, Document, Power point or PDF)

C. Lecture Report – Provide a list of report pertaining to the details of the created / uploaded lecture

2. Student Details Module – The faculty can perform the following

A. Subject – The faculty can choose a subject based on the created subject/s by the admin

B. Section – The faculty can choose a section based on the created section/s by the admin

C. Student Details – The faculty can view the list of student/s created by the admin per section

D. Grade – The faculty can give grades per students and per section based on its subject/s by using the following details

Periodical Percentage

* Prelim – 30%
* Midterm – 30%
* Finals – 40%

Periodical Components

* Virtual Class 25%
  + Attendance – 5%
  + Preliminary Activity – 5%
  + Generalization – 5%
  + Take Home Activity – 10%
* Learning Competencies 40%
  + Analysis, Application and Exploration – 20%
  + Evaluation – 15%
  + Assignment – 5%
* Examination – 35%

Co/extracurricular Activities – The Co/extracurricular will be based on the data created by the admin

NOTE: Allow the faculty to perform the following in Co/extracurricular Activities

* Subject – It will allow the faculty to choose what subject
* Section – It will allow the faculty to choose what section on that particular subject
* Student – Allow the faculty to search the Name of the student/s or Student ID on that particular section and particular subject
* Grade – Allow the teacher to input a grade on that specific student/s

NOTE: Allow the faculty to perform the following in giving a grade

1. Periodical Components – Provide an option that will allow the faculty to choose a component to the Periodical Component (Virtual Class, Learning Competencies, Periodical Exam)
2. Grade – allow the faculty to input a grade

NOTE: The inputted grade for the Co/extracurricular must be added to that specific Periodical Grade for that specific sudent/s

3. Announcement Module – The faculty can perform the CRUD (Create, Retrieve, Update and Delete) process using the following details

a. Announcement Module – The admin can perform the CRUD (Create, Retrieve, Update and Delete) process by using the following details

b. Announcement Name

c. Announcement Description

d. Announcement Schedule

e. Announcement Report – Provide a list of report for the created Announcement/s

NOTE: All created announcement created by the teacher will be posted only to the account of the Students and Parents

4. Report Module – provide the following reports

* Uploaded Lecture Details
* Student Details
* Announcement Details

**C. Parent Module –** The parent module can perform the following and view only the details of it/s child/children

NOTE: Once the Parent is logged in to its account the parent should fill up the following details:

a. Student Number of its child/children

b. Assigned Section of its child/children

Details that can be viewed by the parent

1. Attendance Report – the attendance will be based on the data given by the teacher

2. Academic Performance Report – the academic performance will be based on the data given by the teacher per subject

3. Co/extracurricular Activities Report - the Co/extracurricular activities will be based on the data given by the teacher per subject

4. General Viewing of Report – the parent can view in general all the report (Attendance, Academic Performance, Co/extracurricular Activities) per subject

NOTE: Provide a DSS or Decision Support System for much better viewing of the report

**D. Student Module –** The student module can perform the following and view only its details

Details that can be viewed by the Student

1. Lecture – the uploaded lecture by the teacher can be viewed by the student/s per subject

2. Attendance Report – the attendance will be based on the data given by the teacher

3. Academic Performance Report – the academic performance will be based on the data given by the teacher per subject

4. Co/extracurricular Activities Report - the Co/extracurricular activities will be based on the data given by the teacher per subject

5. General Viewing of Report – the student can view in general all the report (Attendance, Academic Performance, Co/extracurricular Activities) per subject

NOTE: Provide a DSS or Decision Support System for much better viewing of the report