

## Database Applications Project Specifications

### CCINFOM – Fundamentals of Database Systems

AY 2023-2024

#### Group Composition

1. The DB Application Project will be implemented strictly by four members of the same section. Only when the section's population is not divisible by four, that the faculty member handling the course may approve some groups to be composed of less than four (4) members.
2. Students are free to form their groups. Register your group using this link - [CCINFOM 2023-2024-01 Group Inventory](#). Read the instructions carefully when registering your group in the Inventory. Registering as a group also indicates that you have read this document, will abide by the rules, and accept the consequential effects of not following the rules and deadlines in this document.

#### Procedure to Propose and have a DB Applications Project proposal approved

Only approved DB Applications Project proposals can be used and implemented as a project. **Groups without approved proposals by the start of Week 7 (October 16, 2023) will automatically get a 0.0 for the DB Applications Project.** Proposals can be submitted for review and approval starting Week 3 (September 18, 2023) up to Week 5 (October 6, 2023).

1. A proposal is a one-page document, containing the following sections
  - a. **What core data records will be maintained in the DB Application?** Proposals to be approved require at least four (4) different core data records. For each core data record, indicate the group member that will be assigned to develop the module in the application to maintain (add, search and view, filter and listing, update, delete) the core data record.  
e.g. Core Data Record #1 Student Organization Event Dela Cruz, Juan  
Core Data Record #2 Student Organization Members Dela Pena, Mary Grace  
Core Data Record #3 Student Organization Officers Montano, Marcelino  
Core Data Record #4 Student Organization Ad-hoc Committees Reyes, Yves  
  
Each group member must be assigned at least one Core Data Record to handle in the project.  
No two or more members should be assigned to the same Core Data Record.
  - b. **What transactions will be supported in the DB Application?** Proposals to be approved require at least two (2) transactions to be supported by the application. For each transaction, indicate the group member that will be assigned to develop the module in the application.  
e.g. Transaction #1 Organizing an Event Dela Cruz, Juan  
Transaction #2 Registering and Attending an Event Dela Pena, Mary Grace  
  
Group members assigned to develop transaction modules cannot anymore be assigned to report modules.  
Indicate the features that each transaction module will have
  - c. **What are the different reports (not listings) generated in the DB Application?** Proposals to be approved require at least two (2) reports generated using a Level 4 and above SQL Statement. For each report, indicate the group member that will be assigned to develop the module in the application to generate (select report filters and generate) the report.  
e.g. Report #1 Monthly and Yearly Participation Report by Year Level and Degree Program Montano, Marcelino  
Report #2 Monthly and Yearly Productivity Report by Officers and Degree Program Reyes, Yves  
  
Group members assigned to develop report modules cannot anymore be assigned to transaction modules.
2. Always check in the Inventory if a group already has taken possession of the DB Application Topic
3. Submit your proposal to the Inventory by typing in the DB Application topic of your proposal and putting a hyperlink (right-click on the cell and you will see the option to add hyperlink) to your actual proposal located in your group leader's ONEDRIVE (use the filename as – GROUP CODE-DB APP PROPOSAL.docx). Submit the same proposal to your CCINFOM teacher via email with subject – CCINFOM DB Application Project Proposal
4. Immediately schedule a google chat or zoom meeting (whichever is applicable) with your CCINFOM teacher, to present your proposal
5. If the proposal is revised, you are given only three (3) days for it to be revised for another round of submission, presentation, review, and approval. It takes several days before you can present your proposal, so it is important to submit it at least 1.5 weeks before the last day of submission. Not submitting ahead of time also increases your risk of your proposal not being approved by October 16, 2023, and will cause your group to receive a 0.0 in the DB Applications Project.

#### Submission of DB Application Project

In submitting the DB Application Project, a ZIP File (filename as GROUP CODE-DBAPP.zip) containing the following must be submitted in Canvas

1. SQL Script to create the Database used in the project with sample Data (.SQL). Use the filename as – GROUP CODE-DBAPPScript.sql
2. Application Folder of the DB Application (attend the September 26, 2023, Master Class Session on how this is extracted from NetBeans). Use the project name as – GROUP CODE-DBAPP

**Not following any of the submission requirement rules constitute a -5 in the project grade per rule violation**

#### Rubric for Assessment of the Project

	4.0	3.0	2.0	1.0	0.0
<b>Core Data Module</b>	Additional functionalities were added to all the record management functionalities to improve the reliability and ease of use of the Core Data Records	All the record management functionalities were completely and correctly implemented	Only 4 out of the 5 record management functionalities were completely and correctly implemented	Only 3 out of the 5 record management functionalities were completely and correctly implemented	Less than 3 record management functionalities were completely and correctly implemented
<b>Report or Transactional Module</b>	Additional functionalities were added improve the reliability and ease of performing transactions or report generation	All the basic functionalities for transaction or report generation were completely and correctly implemented	Only 75% of the basic functionalities for transaction or report generation were completely and correctly implemented	Only 50% of the basic functionalities for transaction or report generation were completely and correctly implemented	Less than 50% of the basic functionalities for transaction or report generation were completely and correctly implemented
<b>DB System Concept</b>	Able to use concepts to convincingly and clearly explain and decide on the design and implementation of the database and functionalities to improve user data activities using DB Application	Able convincingly and clearly explain and decide on the design and implementation of the database and functionalities to improve user data activities using DB Application, but not consistently with sound concepts	Explanations to the decisions made on the design and implementation of the database and functionalities shows limited understanding of the role of Database Systems to support user data activities	Explanations to the decisions made on the design and implementation of the database and functionalities shows selective and limited understanding of the role of Database Systems to support user data activities	Explanations to the decisions made on the design and implementation of the database and functionalities shows lack of understanding of the role of Database Systems to support user data activities