Project Specification

Overview

Working as a team of four or five, you are expected to choose a real-world problem, and follow the database development process to develop a management information system.

	Description	Points	Due date
1.	Group List		19 Feb (Friday)
2.	Project proposal / plan	5	12 Mar (Friday)
3.	Final Project report and PowerPoint	30	16 Apr (Friday)
4.	Implementation (Final code, e.g. accdb)	35	16 Apr (Friday)
5.	Peer to peer evaluation form		16 Apr (Friday)
6.	Project Presentation and Demonstration	30	Tutorial 12/13

Grouping

- 4-5 students per group / Individual
- Fill in the group registration form and upload to Moodle by **Friday, 19 Feb 2021, 5:00pm**.

Project Proposal (5 points)

- Single space, around 2 pages.
- Choose an idea to work on from work, study, or daily life. Examples include: student club information systems, church member management system, etc.; and provide the following items in the proposal:
    1. A detailed description of the idea.
    2. What kind of data to be stored?
    3. Who will use the system?
    4. How they use the system?
- Submit one **softcopy in PDF** in Moodle with Turnitin checking by group leader. (Name format of the PDF file: ***Group Classnumber–group_number.pdf***, **Example: Group 101-2A.pdf**)

- **Clearly stay <u>your class, group number and group member's name</u> on the first page of the proposal.**

Implementation (35 points)

- Implement the idea proposed with tables, queries, interface etc…
- The application can be implemented with Microsoft Access, JDBC or others software.
- The database can be implemented with Microsoft Access, Oracle, or other DBMS.
    ➢ *Installation guide is need if your groups use software other than Microsoft Access*
    ➢ *Keep the links are available until week 15 if there is a web interface for you project*
- Each table should have at least 10 records.
- You may consider using sub-forms, multiple table queries and reports, button, and even VBA.
- Implementation Grading Aspects:

Structure	30%
Interface	10%
Queries	30%
Forms	15%
Reports	15%

Project Report (30 points)

- Minimum 10 pages (no upper limit)
- Describe the business rules
- Conceptual data modeling
- Logical design
- One softcopy is needed to be submitted online in Moodle by group leader.
- Report Grading Aspects:

Content	80%
Organization	10%
Format and Clearness	10%

Project Presentation (30 points)

- Give a 12-minute PowerPoint presentation introduce your database application
- Presentation Grading Aspects:

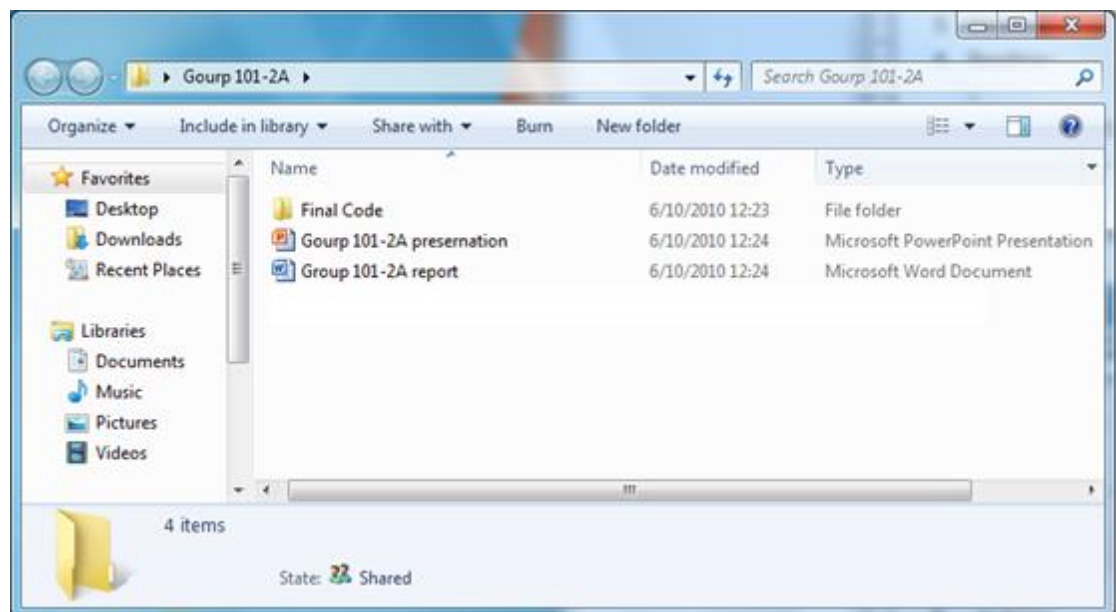| Content	25%
Demonstration	10%
Presentation skills	25%
Clarity, logic and structure of slides	20%
Team coordination and time management	10%
Q & A handling	10%

Project Submission Guideline

Items to be submitted

1. Submit the following items in a zip file in Moodle by the group leader
   (Name format of the zip file: ***Group Classnumber–group_number.zip,***
   Example: Group 101-2A.zip)
   (a) Final Report
   (b) Presentation PowerPoint
   (c) Final code (e.g. accdb)
   Organize the files in the following format:

2. Submit one **softcopy of <mark>final report</mark> in PDF** in Moodle with Turnitin checking by group leader.
   (Name format of the zip file: ***Group Classnumber–group_number.pdf,***
   Example: Group 101-2A.pdf)
3. **Peer to peer evaluation form** (Submit to Moodle individually)

Instruction for submission

1. Submit the zip file contains all the above files in (1) in Moodle by **16 Apr 17:00** by the project leader.
2. Submit a **peer to peer evaluation form** by **16 Apr 17:00** to Moodle individually.
3. Clearly state your class, group number and the group members' name on the report.

Report Outline

Single space, around 10 pages (you can write more if necessary), double side printed. Please include the following items in the report but not limited to.

1. Introduction
2. Describe the business rules
3. Conceptual model (ERD)
4. Logical design
    (a) Queries design
    (b) Applications (e.g. forms, reports…)
5. Implementation details
    (a) Software used
    (b) Source of data (Where you find the data)
    (c) Installation guide (for the groups use software other than Microsoft Access)
6. Difficulties
    (a) Design phase
    (b) Implementation phase
    (c) Lessons learnt
7. Work distribution list. Such as:

Task Name	Start Date	Finish Date	Responsible
Normalization	10/11	11/12	Tom, Amy, Mike

8. Conclusion
9. Reference

Presentation Outline

Give a 12-minute PowerPoint presentation to introduce your database application.

1. Introduction
2. Describe the business rules
3. Conceptual model (ERD)
4. Logical design
5. Demonstration
6. Conclusion

Attention:

For all **proposal and report**, all personal particulars (including student name, student number and class number of the student) must be typed clearly at the top of the first page of each document, if NOT 10% of marks will be deducted. Although marking will be based mainly on the hardcopies, the corresponding softcopies and the hardcopies have to be the same; marks will be deducted if it is found that the pair of documents is not the same.

Plagiarism will be penalized severely. Marks will be deducted for assignments that are plagiarized in whole or in part, regardless of the sources.

Late submission is liable to a **penalty of 5%** of the available marks for **each day late**; Saturdays, Sundays and holidays are counted.

Rubric for Report:

Grade result	Assessment criteria
A+ (Outstanding) / **A (Excellent)**	This is an outstanding or excellent result, with all of the following characteristics: • Provide well presented & articulated introduction with a clearly stated objective & professional discussion • Provide well presented & articulated contents identifying relevant key points with professional discussion • Identify all key points in safety awareness with personal insights • Demonstrate the ability to transfer acquired knowledge into real life application
B+ (Very Good) / **B (Good)**	This is a good result, with all of the following characteristics: • Clearly and appropriately introduce the technologies involved in the training • Identify the key elements of the technology to reflect fair understanding of the topic and discuss the integration of the key elements • Demonstrate a good understanding of safety awareness with some personal insights • Use appropriate details in the presentation
C+ (Wholly Satisfactory) / **C (Satisfactory)**	This is a wholly satisfactory or satisfactory result, with all or most of the following characteristics: • Provide the introduction to the technology with satisfactory & relevant information • Identify most key points of the topics without addressing the integration of the key elements • Demonstrate a basic understanding of safety awareness • Use sufficient details to make the presentation clear
D+ (Barely Adequate) / **D (Weak)**	This is a barely adequate or weak response, with all or most of the following characteristics: • Provide a brief introduction to the technology with relevant information but they were directly copied from other sources & no personal input • Just outline the technical details involved in the training without sufficient details • Include inappropriate or insufficient details in the presentation
F (Inadequate)	This is an inadequate result, with all or most of the following characteristics: • Provide no introduction • Provide no technical detail involved in the training • Demonstrate no or poor understanding about the safety precaution • Is poorly organised, or has many irrelevant sections • Has few or irrelevant details in the presentation

Rubric for Project Presentation:

Criteria	Inadequate F	Adequate D / D+	Satisfactory C / C+	Good B / B+	Excellent A / A+
Content (25%)	Explanations of concepts and/or theories are inaccurate or incomplete. Not understand the presented topics	For the most part, explanations of concepts and/or theories are inaccurate or incomplete. Show partial understanding of the presented topics.	Explanations of concepts and/or theories are accurate or complete. Show some understanding of the presentation topics.	For the most part, explanations of concepts and theories are accurate and complete. Show a good understanding of the presented topics.	Speaker provides an accurate and complete explanation of key concepts and theories. Show well understanding of the presented topics.
Demonstration (10%)	Demonstration of concepts and/or theories is inaccurate or incomplete. Not understand the presented topics	For the most part, demonstrations of concepts and/or theories are inaccurate or incomplete. Show partial understanding of the presented topics.	Demonstrations are accurate or complete. Show some understanding of the presentation topics.	For the most part, demonstration of concepts and theories are accurate and complete. Show a good understanding of the presented topics.	Speaker provides an accurate and complete demonstration. Show well understanding of the presented topics.
Presentation Skills (25%)	No eye contact, only read out the notes, no confidence, Nervous/tension obvious. Low volume and/or monotonous tone.	Inaudible or too loud, little or no eye contact, pace is too slow/fast, reading out the points mainly, no confidence.	Some mumbling, a bit nervous, some eye contact, some of body languages, acceptable effort and limited confidence.	Clear articulated with reasonable eye contact and good body language and confidence, and show some enthusiasm.	Poised, clear articulation, proper volume, steady pace, excellent posture and eye contact, enthusiasm, very confidence.
Clarity, logic and structure of slides (20%)	Fail to raise audience understanding and knowledge of the presented topics. Presentation is unclear and poorly organised. Audience are confused. Powerpoint is poorly prepared that detract from the presentation.	Raise audience understanding and knowledge of the presented topics partially. Presentation is not organised. A few major points are confusing. Powerpoint is not prepared well and may confused audience.	Raise audience understanding and knowledge of some of the presented topics. Presentation is organized. Audience can follow with effort. Powerpoint contributes to the quality of the presentation and is satisfactory prepared.	Raise audience understanding and knowledge of most of the presented topics. Presentation is generally clear and organised. A few minor points are confusing. Powerpoint enhances the presentation and is prepared reasonably good.	Significantly increase audience understanding and knowledge of the presented topics. Presentation is clear, logical and organised. Audience can follow the line of reasoning. Powerpoint enhances the presentation and is prepared in a professional manner.

Team Coordination and time management (10%)	No coordination among team members. Unable to finish the presentation within time limit (require an extra 4 minutes or more to complete).	Not well coordinated among team members, but shown effort. Unable to finish the presentation within time limit (require an extra 1-3 minutes to complete).	Some of the team members are well coordinated to deliver the presentation. Able to finish the presentation within time limit, but display uneven pace (e.g. sometimes is too fast, sometimes is too slow).	Most of the team members are well coordinated to deliver the presentation. Able to finish the presentation within time limit, and show even pace for most of the time.	All team members are well coordinated to deliver the presentation. Able to finish the presentation within time limit and show well time management (e.g. pace is equally well).
Q&A Response (10%)	Unable to provide answers.	Provide answers in a structured way, but most are irrelevant.	Provide relevant but insufficient answers.	Provide clear and relevant answers.	Provide detailed, coherent, and relevant answers.