



Marsden State High School

Business Education- 12 IPT

Semester
3
Date Given
20/07/09
Due Date
31/08/2009

Name:	
Form:	
Teacher:	WATT
Head of Department:	FURLAN

Assessment: Major Project	No.: 8
<p>Task Conditions:</p> <ul style="list-style-type: none"> • 6 Weeks class/ home time provided • To be submitted in hard copy and electronic • Use Microsoft Access 	
<p>School Assessment Policy:</p> <p>This item must be submitted no later than 5 days after the week beginning date as teacher feedback (given as part of the learning process) will invalidate this assessment. Failure to do so will result in a Non-submission.</p>	

Unit:
Information
Systems

Knowledge
Research & Development

Knowledge	Standard A	Standard B	Standard C	Standard D	Standard E
Declarative Knowledge Facts, terms methods, concepts and principles	Student recalls and comprehensively explains a wide range of theories and practices of Information Systems Development and using MS Access; demonstrating thorough understanding of principles of planning, design and implementation.	Student recalls, describes and explains a substantial range of theories and practices of Information Systems Development and using MS Access; demonstrating understanding principles of planning, design and implementation.	Student recalls and describes facts and terms relating to of theories and practices of Information Systems Development and using MS Access; explains methods; demonstrating understanding principles of planning, design and implementation.	Student recalls and describes facts and terms relating to of theories and practices of Information Systems Development and using MS Access.	Student recalls few facts and terms relating to of theories and practices of Information Systems Development and using MS Access.
Procedural Knowledge Knowledge, learned procedures and related concepts and principles (pk)	The student effectively and consistently selects and applies learnt procedures when using Microsoft Access and employs knowledge of database design principles to produce a functioning high quality database.	The student selects and learnt procedures when using Microsoft Access and employs knowledge of database design principles to produce a functioning database.	The student applies knowledge and learned procedures when using Microsoft Access and employs knowledge of database design principles to produce a database.	The student applies basic knowledge and principles when using Microsoft Access and employs knowledge of database design principles to produce a database.	The student applies some knowledge when using Microsoft Access.
Grammar and spelling and vocabulary	The student consistently uses correct and functional; wide range of appropriate vocabulary throughout the report and manual.	The student uses correct and functional; range of appropriate vocabulary throughout the report and manual.	The student uses correct and functional language throughout the report and manual.	The student uses functional language for most of the report and manual.	The student has attempted to use functional language within the report and manual.
Research & Development	Standard A	Standard B	Standard C	Standard D	
Analysis	The student has demonstrated the ability to analyse the task from multiple perspectives and has developed a detailed solution.	The student has demonstrated the ability to analyse the task from multiple perspectives and has developed a suitable solution.	The student had identified key factors within the task and has developed a solution.	The student has identified and classified the factors within the task and has attempted to develop a solution.	
Synthesis Designing and developing	The student has shown initiative throughout the project and has developed an effective, efficient and elegant solution to unrehearsed and complex task.	The student has developed an effective solution to unrehearsed and complex task.	The student has developed functional solution to unrehearsed and complex task.	The student has attempted to develop solutions to the unrehearsed task.	
Evaluation	Upon finalisation of the project the student has evaluated the product and process with detailed justification; using both prescribed and self-determined criteria to improve the overall effectiveness of the database.	Upon finalisation of the project the student has evaluated the product and process with justification; using both prescribed and self-determined criteria to improve the overall effectiveness of the database.	Upon finalisation of the project the student has evaluated the product and process using prescribed criteria and standards to improve the functionality of the database.	Upon finalisation to the project the student has evaluated some solutions to problems (only)	
Communication Ideas concepts, solutions and evaluations	The student communicates clearly and cohesively; harnessing appropriate genre to target specific audiences.	The student communicates clearly; targeting specific audiences	The student has used the principles of communication.	The student uses the principles of communication but not evaluations.	

Year 12 IPT: Major Project: Information Systems Design

Task:

You are required to develop a functioning Relational Database which meets client specifications. You must follow the **Design, Develop and Evaluate Cycle**.

Design

- You will be assigned a client by your teacher.
- It is your responsibility to meet with the client and work collaboratively on forming a Universe of Discourse.
- Use NIAM for the Design Phase
- The project must be documented at every step.

Develop

- Use Microsoft Access to build the database.
- The database should include:
 1. Multi relational tables
 2. Easy to use form(s) incorporating GUI and HCI principles
 3. Queries and Reports
- Create a small user manual

Evaluate

- Create a small feedback form to be used by your colleagues and client.
- Upon completing the functional database, it will need to be tested for useability by some of your colleagues.
- Modify the database to meet feedback requirements.
- Document changes.
- The client should then test the database and give feedback on functionality and improvements.
- You will be required to document changes and amend the database accordingly.
- When the Database is completed, you need to reflect on the design process and document how a similar task could be better achieved in the future.

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- The project must be formatted as a report including a title page, index, appendices, footers and page numbers.
 - Screen dumps of the form(s), relationships window and printouts of the tables/queries/reports should be included throughout this report.
 - Ensure that you label all diagrams and pictures clearly and explain context.
 - Appropriate Meta language should be used, and spelling/ grammar will form a communication grade.

Report Format

1. Title Page

2. Index Page

3. Who is the Client?

4. Design Phase

Define: General Problem Description
Rational for Development
Assumptions and Boundaries

Specify: Aims and Objectives
Flow of Data
Input and Output requirements

Interface: Device Specification
Screen and Report Layout
Menu Design
Interactive devices

Universe of Discourse
Considerations
Elementary Facts/ Sentences
Conceptual Schema
Named Tables
Plan for Implementation

5. Develop Phase

Tables
Keys
Relationships
Queries
Reports
Forms

6. Evaluation

General Feedback
Useability
Data Security
Data Redundancy
Inefficiency
Update Anomalies
Data Loss

Modifications
Client Feedback
Useability
Modifications
Personal Reflection
Useability
Data Security
Data Redundancy
Inefficiency
Update Anomalies
Data Loss

7. Appendix

Feedback Forms
User Manual