Project – DB Lab

Final Project – Requirements

- Working in group of 3 students
- Topic proposal: defined by members → validated by professor
- Database Management System (DBMS): postgresql
- Programming language: no limit (java, c#, php, ...)
- Project presentation: 16th of the semester or exam date
- All members must
 - work together
 - participate to the presentation section, QA section

Final Project – Requirements

- Results of the final project:
 - Source code
 - Installation guide / Usage guide: Decription in details how to install and how to use your product
 - **Report (PDF file)** composes of :
 - Description in details the selected subject
 - Determining necessary functionalities (students can use UML diagram if needed)
 - Database design: ER schema + descriptions of all tables and their relationships
 - Installed functionalities
 - Code sources/ packages are re-used in your product
 - Difficulties in carrying out the project ? And solutions?
 - Evaluation about the final results: avantages/ disadvantages
 - Tasks of each member

Project Evaluation

- Final program
 - Complixity/ difficulty of the problematic
 - Quality:
 - Functionalities: complete, correct,
 - User interface: easy to use (user-friendly interface)
 - Demo: demo scenario should be prepared
- Presentation quality
- Report quality

Topic proposal

- Each group proposes a topic (for example: human resources management, football club management, hotel management, ...)
- Topic proposal must be described in details:
 - 1-2 pages
 - Description: objectives, usage scenario, functionalities, data and all requirements or relationships between data.
 - Database design (1st version)
 - ER schema (entities and relationships)
 - ER schema → Relational Model (tables, keys)
 - Group members:
 - List of all members: fullname, classe, email
 - Leader

Topic proposal - Plan

- Sending topic proposal via email:
 - oanhnt@soict.hust.edu.vn before 17h 20/03/2019
 - Email subject: [DBLab-ICTK61] Project topic proposal
 - Pdf file contains: group members, topic description, ER schema and designed DB
 - File name: leader name_topic.pdf
 - Ex.: cuongth_hotelManagment.pdf
 - File format: .pdf
- Discussion about the topic and 1st version of DB design
 - 26/03

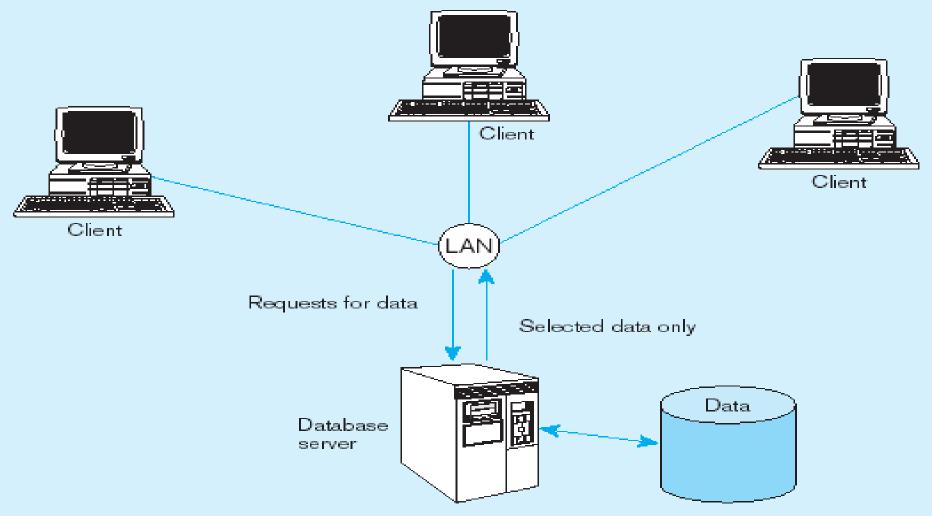
Topic: examples

- Information Management Systems:
 - Normal user: information query / retrieval
 - Administrator: update database, update data (create/drop, insert, update...)
- Library management (users: lecturer, staff)
- Learning management system (users: students, teacher, staff,...)
- Sales management system (selling online/offline, selling books, selling supplies ...)
- Management system for fitness club / English Teaching Center, ...

Programming language/ Interface

- No limit: Pascal, C, C#, Java, PHP....
- Interface:
 - GUI (Graphical User Interface): menu, button, tab...
 - Console: command-line interface; menu: list of functionalities => users choose by typing option listed on the menu

Project – Mô hình



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