

Project Final Report

Cover Page: Project Title, Team Information

Project Requirement

- ◆ Project Description
 - Provide an overview of the project (Goal, motivation, stack holders, application domain, benefits to users...)
- ◆ System Environment
 - Structure of the system (graph based on 3-tiered architecture)
 - HW/SW used (OS, Redhat, ...)
 - RDBMS Used (MySQL version)
 - Application languages...(Java, XML, SQL, GUI Builder, Designer, GTK+...etc)
- ◆ Functional Requirements
 - A list of detailed descriptions of users and how users interact with your application
 - Describe each individual function/feature, functional process and I/O.
- ◆ Non-functional Issues
 - Detailed descriptions of Graphical User Interface...
 - Detailed descriptions of Security...
 - Detailed descriptions of Access Control...

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Project Design

- Updated ERD Model for the application.
 - Identify the entities, attributes, dependences, relationships, constraints, etc.
 - Show multi-way relationship, inheritance, ISA, weak entity sets, etc.
 - List all completely non-trivial FDs that apply to your design.
 - Convert ER to schemas
 - Explanation for each entity set and relationship, write a short description in plain English of what it represents or models. One or two sentences per entity set and relationship is enough. These descriptions are primarily to help us understand what you are modeling.

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- Perform the normalization process, and perfect the relational database schemas to **BCNF**
- Create and show at least 10 tables according to schemas and model the data stored in the database (**Each table must contains at least 15 tuple instances.**)

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Implementation

- Detail explanations of how your DB application system was implemented.
- Keep tracks of implementations from design.
 - Identify the entities, attributes, dependences, relationships, constraints, etc. (**show screenshots of corresponding tables, GUI, execution results, and so on.**)
 - Show functions/features associated with query, insertion, updating, and deletion operations. (**Screenshots**)
 - Procedures (step by step) of how to set up and run your system

Project Conclusion

- Statements from each team member about Lesson Learned from this DB project.
- Future improvement of your DB application.

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Demo

- 12 minutes. (Each team member must participate in demo.) + 3 minutes Q&A
- Show your three-tiered works and completed features of your DB application.
- Show how users interact with your DB application.
 - Functionalities/features associated with query, insertion, updating, and deletion.
 - Explain source codes (database manipulations, GUI)
 - Show the value changes of tables in SQL Server corresponding to the user's operating activities above.
 - Show all tables that match to your ERD design.

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