

IMPLEMENTATION AND PRESENTATION

A working **prototype** of the database system is expected in the presentation. This need not contain all of the proposed functions that have been specified. At least **one (1) function** must be fully implemented. However, the group must ensure that **all tables**, as well as the **integrity constraints** specified in the design, are implemented. The database should be populated with **sample data**.

The aspects described above, with **actual queries** using the data in the database, are expected during the presentation. The group must also demonstrate how inputs are performed through the **screens or forms** that have been developed.

Document Contents

1. Discussion of Implementation
With the given case, write a detailed overview of the system. Identify any assumptions, limitations, and restrictions that might apply to the system. Indicate points that require further clarification.
 - 1.1. Software Requirements: operating system, RDBMS, other applications
 - 1.2. Limitations of the System
 - 1.3. Problems Encountered during Development
2. Logical Database Design
 - 2.1. Final Conceptual ERD
Show the final conceptual data model from the previous output and include revisions. Make sure attribute names are descriptive.
 - 2.2. Final Data Dictionary
Show the final data dictionary from the previous output and include any revisions and/or additions of fields. Refer to the [template](#) provided.
 - 2.3. Transformation of Conceptual ERD to Logical ERD with Normalized Relations
 - 2.3.1. Transform the final conceptual ERD to the logical model. Follow the steps indicated in the lecture slide deck. Ensure that the steps are done in the proper sequence.
 - 2.3.2. Normalize the models. Identify the Normal Forms and show how the entities were transformed from one Normal Form to another by showing the functional and transitive dependencies and how these were eliminated. Normalize up to 3NF. Show any other steps that occurred in the process. In the final normalized relations, underline primary keys and show foreign keys with broken (or alternating) underlines.
Example: EMPLOYEE (**Emp ID**, Name, Bday, Manager_ID)
3. Actual Implementation
 - 3.1. Tables and Integrity Constraints: a compilation of all CREATE statements, including integrity constraint clauses, such as primary key, foreign key, check, etc.
 - 3.2. Sample Queries: minimum of five SELECT statements used in the actual system
 - 3.3. Final Set of Screens and Reports: These are the ones to be shown during the presentation, with individual descriptions.
4. Appendix A: Screenshots of Project Management Platform The instructors shall be given access to the platform by **06 December 2024**.
5. Appendix B: [Certificate of Authorship for Group Work](#)

Format and Organization

1. The document file should adhere to the following format specifications:
 - 1.1. Paper Size: A4 (21 cm x 29.7 cm)
 - 1.2. Page Orientation: Portrait for text; Landscape for diagrams, when needed
 - 1.3. Margins: 2cm on all sides
 - 1.4. Line Spacing: 1.5
 - 1.5. Font: Cambria, Droid Serif, Book Antiqua, or Georgia (choose one), size 11
 - 1.6. Page Footer: page number on the lower right corner of each page, body only
 - 1.7. Page Header: group name on the upper right corner of each page, body only
 - 1.8. Include a Table of Contents, with page numbers
2. The document's cover page should indicate:
 - 2.1. Group Number and Group Name
 - 2.2. Full Names of Group Members
 - 2.3. Project Case Title
 - 2.4. Date of Submission
 - 2.5. Course Code and Course Title
3. Ensure that your document is concise, easy to read and understand, and integrated.
4. The document should be rendered in a PDF file. The file should be named according to the convention: **Deliverable2-ProjectCase-GroupNumber-GroupName.pdf**
Example: Deliverable2-TirianTrains-99-JSLT.pdf

System

- All system files, source code, scripts, etc., must be archived / compressed for submission, maintaining any applicable relative directory structure. The compressed folder should be named according to the convention: **ProjectCase-GroupNumber-GroupName.zip**

Submission of Files

- The PDF file and the ZIP file must be submitted to the corresponding Canvas assignment by **Monday, 02 December 2024, 23:59**.
- All submission policies indicated in the course syllabus apply.

Presentation

- The group must schedule a presentation with their assigned critiquing group. The schedule of the presentation must be finalized by **Monday, 02 December 2024**. Groups must coordinate with each other regarding their schedules. Groups that include online students must arrange for online presentations.
- The online scheduler for project presentations will be linked on Canvas.
- The presentation must be completed by **Friday, 06 December 2024**.
- The group is given **fifteen (15) minutes** to present and demonstrate the functions of the prototype.
- The presentation must begin with an overview of the project case and the highlights of the phases of system design and development.
- The presentation must include the Final Logical ERD, fully visible on one screen.
- The presentation must include the Final Normalized Relations in 3NF, fully visible on one screen.
- Another **fifteen (15) minutes** will be allotted for the group to answer questions from the panel.
- As this is an academic undertaking and a simulation of a real-world client solution, presenters are expected to dress and conduct themselves appropriately.

Critique

- Each member of the critiquing group will serve as a panel member during the presentation.
- Each panel member is expected to ask questions and provide feedback on the presented system and the accompanying documents.
- Each panel member is required to accomplish the online evaluation form during the presentation.

Peer Rating

- Each student **must** submit fair and honest peer ratings regarding their respective contributions to the completion of this deliverable.
- Students will rate themselves and each member of their group on a scale from 1 to 4, using whole numbers only. Each rating shall be accompanied by a short explanation for the rating given.

| Rating | Qualitative Description | Situational Description |
|--------|-------------------------|---|
| 4 | Satisfactory | The individual participated and contributed their fair share of the work in a timely manner, without causing inconvenience to the rest of the group. |
| 3 | Fair | The individual did more than half of the work expected of them and/or did their work late and caused some inconvenience to the rest of the group. |
| 2 | Poor | The individual contributed less than half of the work expected of them and/or submitted their part late, thereby forcing the group to cover for them and/or cram. |
| 1 | Unacceptable | The individual barely contributed to the output, or they did not contribute at all. |

- In ***extremely special situations*** where an individual has performed exceptionally and deserves a rating higher than 4, a rating of 5 may be given. Thorough explanation is required for this rating. If insufficient justification is given, the rating will be capped at 4.

| Rating | Qualitative Description | Situational Description |
|--------|-------------------------|---|
| 5 | Exceptionally Magis | The individual exceeded expectations, took initiative, and drove the group's success in completing the output well. |

- The average of each individual's peer ratings will be used to identify the corresponding multiplier. The group grade will be multiplied by the multiplier to yield the individual grade.

| Average Rating | Multiplier |
|----------------|------------|
| 3.5 | 100% |
| 3.0 | 90% |
| 2.5 | 80% |
| 2.0 | 70% |
| 1.0 | 50% |

- Peer ratings will be submitted through [this Google Form](#) by **Saturday, 07 December 2024, 23:59**. Students who do not submit the peer ratings (for themselves and their group mates) will automatically receive a 1-point deduction applied to their average peer rating score for this requirement.