Project 2

Objective: This purpose of this project is to implement databases into a Full stack application.

Part 1 Proposal (Due April 25, 2021 10 points)

Form a group of 1 – 4 people this proposal must consist the following:

1. The team member's names and emails.
2. The team name.
3. Describe the software in roughly three paragraphs. Address the following questions:
    a. What is the purpose of the software?
    b. Why is the software interesting?
    c. What existing product is like the project you are proposing?
4. Create a complete diagram of the application and how it will work.
5. The schemas for the database the software will be using. Anywhere between 7-12 is typical for a small project, you may have more.

Part 2 Implementation of Application (Due May 14, 2021 90 points)

The project you turn in on the due date should bare some resemblance to what you proposed in part 1. The schemas of the database you turn in do not have to match what was proposed, but the general purpose of the software should be the same. The software application must include a "manual" or "tutorial" of some sort which explains the software's use and features.

The projects will be graded on the following criteria:

1. The documentation clearly describes the purpose and design of the software.
2. The database must be creatable from SQL scripts, and the schemas must be documented and accompanied by ER diagrams. (Hand drawn and photographed is fine.)
3. The schemas are in normal form; in particular they should be in third normal form.
4. I am able to use the software to create, update, (and possibly delete) records.

While the software does not have to be "bug free", I should not encounter bugs while performing the documented operations, or variations thereof.

Optional (Extra Credit):

1. **Project 2 Database must be hosted on a cloud hosting platform (i.e., Heroku, AWS RDS)**
   (you must explain how you configured it in the documentation)
2. **Project 2 Application must be hosted on a cloud hosting platform (i.e. Heroku, AWS)**
   (you must explain how you configured it in the documentation)

***If optional criteria are done, it will be following formula:**

Final grade of project 2 = Your Total number of points + (Your Total number of points * 10% * number of optional requirement)

Example Calculations:

1. Total grade = 100%

If 1 optional requirement is done
Final grade of project 2= 100% + (100% * 10% * 1)
Final grade of project 2= 100% + (10% * 1)
Final grade of project 2= 110%

If 2 optional requirements are done
Final grade of project 2= 100% + (100% * 10% *2)
Final grade of project 2= 100% + (10% * 2)
Final grade of project 2= 100% + (20%)
Final grade of project 2= 120%

2. Total grade = 50%

If 1 optional requirement is done
Final grade of project 2= 50% + (50% * 10% * 1)
Final grade of project 2= 50% + (5% * 1)
Final grade of project 2= 55%

If 2 optional requirements are done
Final grade of project 2= 50% + (50% * 10% *2)
Final grade of project 2= 50% + (5% * 2)
Final grade of project 2= 50% + (10%)
Final grade of project 2= 60%