Graphical user interface, text

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# **Overview**

## **Project Background and Description (Executive Overview)**

The Midterm Project serves as a model on how to improve a database system. This will be advantageous as it allows the database to be better and more comprehensive. The objective is to have a new modernized and comprehensive database in comparison to the old database. The target audience for this will be developers as they are the ones who will be interacting and using the database; this will ultimately help the corporation as a whole as it will make the data more clean and usable.

## **Project Scope**

The scope of the project primarily entails adding new tables, fixing existing tables, and creating your own UDT in the database. The project’s objective does not include adding many tables that will not be necessary for the database. The reason for this is that adding more tables than necessary will make it so that the database is rigid thus making the database less usable for a general audience.

## **High-Level Requirements**

The Midterm database has the following:

* A new table is added which is called “DbSecurity.UserAuthorization”
* Alterations of previous tables so that the following columns are added : UserAuthorizationId, DateAdded, and DateOfLastUpdate
* Add new UDT and fixing previous UDT
* Business rule template validations

## **Deliverables and Affected Parties**

The stakeholders that will be impacted by this project are the data scientist ,programmers and the corporations as a whole:

* The Data Scientists will benefit from this because it will make data collection and data organization easier. This makes getting information easier as well as being able to present the data to the executives at the corporation.
* Programmers will benefit from this as it will make data collection and data organization easier for the data scientist thus making the day to day operations and interactions between the software engineer and data scientist easier and more streamlined.
* The corporations will benefit from this because it will allow more data to be sorted and be usable. Since data is the most important thing when it comes to running the day to day operations of organizations this will make it that much easier when the data is organized and up to date with modern day conventions.

## **Specific Exclusions from Scope**

The project will be implemented in an incremental order as following:

1st Step – Planning out the conceptual model: business objects.

2nd Step – Planning out the logical model: business rules.

3rd Step – Planning out the physical model and the targeted database.

4th Step – Forward engineering the model in the target database.

5th Step – Developing a software system that will make use of these models.

## **Implementation Plan**

The implementation of the plan is starting off with the conceptual model then moving on to the logical model and finally the physical model. The conceptual model will explain the flow and the purpose of the design. The logical model will be an explanation of the business rules. The physical model will explain the fully qualified table names, defaults, check constraints, indexes, primary keys and foreign keys.

## **High-Level Timeline/Schedule**

| **TASK NAME** | **START  DATE** | **END  DATE** |
| --- | --- | --- |
| Executive overview and summary detail of the project | 11-1-2022 | 11-2-2022 |
| Conceptual Model implementation | 11-3-2022 | 11-6-2022 |
| Logical Model implementation | 11-5-2022 | 11-7-2022 |
| Physical Model implementation | 11-10-2022 | 11-10-2022 |
| Double checking of the models (Adding, deleting or Altering) | 11-13-2022 | 11-13-2022 |
| Forward Engineering | 11-14-2022 | 11-14-2022 |

# **Approval and Authority to Proceed**

We approve the project as described above, and authorize the team to proceed.

| Name | Title | Date |
| --- | --- | --- |
|  |  |  |