

Data base design with data protection in mind.

1.- Data collection: what data do we need, whatnot, minimize data collection. Think about sensitive & non-sensitive data and how to store each of them.

The staff data is stored in the in-house database, while the customer data is stored in an external storage system. The data is linked through the use of unique identifiers such as customer ID and employee ID.

2. - How and where to store it, what in-house what in external storage systems, what happens with our responsibility in the protection of that data?

We can encrypt some data from the customers and staff. So it is difficult to read the data stored.

Access to the data is controlled through the use of login credentials and encrypted communication channels. The data is also automatically entered and deleted as needed to keep the database up-to-date.

We can use several servers and not just one. So that everything is not centralized and it is more difficult to lose all the data. If we use several servers, the data is distributed among them and in case one fails, we have the others as backup.

3. - Prepare records so we know where the data is if there is a need to erase the data.

We will have to create a schema to know in which area is each data that is stored in the database and that is easily and quickly accessible to the administrator at the time of modifying, creating or deleting any stored data.

4. - Controls: Good levels of access controls and encryption.

We will use encryption for the most sensitive data. Since it is more complicated if, if we suffer a hack attack, the information can be easily visible and stolen.

Only data controllers will have access to the database, they will use verified and encrypted accounts when working.

5. - Automatization: entry and deletion.

We will have to create an automatic program that is able to keep the database clean, without unnecessary information. Periodically check if a client or a worker is still with us so that the program will remove him/her from the database.