



## **Authentication & Authorization**



## **Research**

**by**

**Name:** Islam Abdelraouf

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## Authentication and authorization

Authentication and authorization are terms that are always connected and used together, during hotel reservation, airport, or in the bank, or even using CRM systems.



## Authentication

Authentication is an expression used whenever is needed to identify a person or to check his identity, e.g. in the airport, the immigration officer checks the person's passport and detailed information to confirm it is the person standing front of him, same as for the online login checks, using the email address, telephone number, and password to confirm it is the user going to use the services.

## Authorization

Authorization is the process of granting specific privileges to a person, back to the airport example, after authentication is done by the security officer, a person can check-in using the boarding pass to a particular airplane gate, ha won't have access to any other gates. Same sequence happens online, after the user is logged in, the logic behind will allow only the sections that he is granted to access, for some systems can show locked screens as the user is requested to be authenticated before getting an access / authorization.

Here we can talk for example about the website visitors, registered members, website admins, publishers, database administrator

If the firm owns a purchasing department, a separate section will be limited to their authentication / privileges, same for physical warehouse admin, and same for accountants, everyone will be authorized to access specific part of the system based on their prior authentication process.

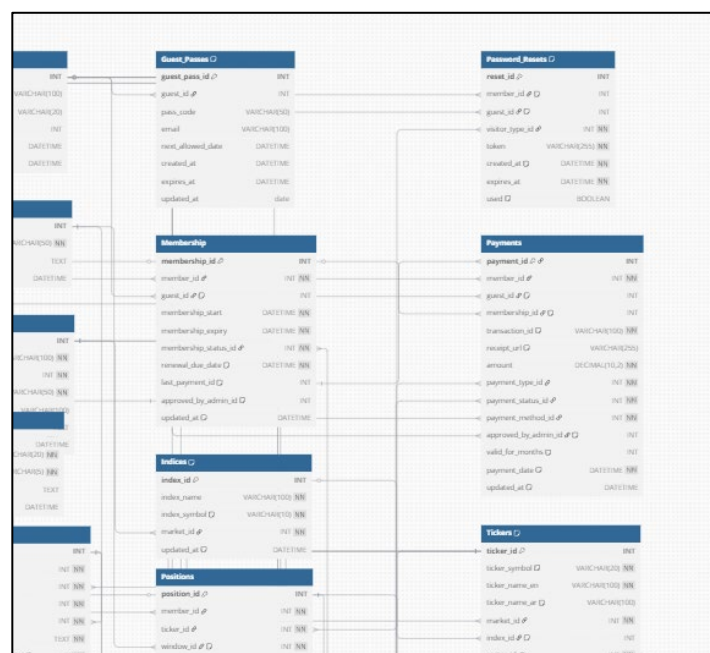
# MySQL

MySQL is one of the relational database types, it was founded by Michael Widenius, and named after his daughter "My", and "SQL" means structured query language.

MySQL is free and open-source RDBMS, it can be used as a standalone language to create database-based applications, or can be used to provide the database part for programs written by different languages.

It is being used by giant applications like Facebook, Twitter and YouTube.

In MySQL, data are stored in tables, and the tables can have relations in order to execute queries to fetch these data in an organized way.



Good to mention that PHP can connect and communicate with MySQL database using MySQLi or PDO

The good benefit using PDO over MySQLi is that PDO supports 12 different databases, but MySQLi supports MySQL only. And PDO can handle any thrown exception during the database-communication process, using `try{}catch{}`  statement.

## REFERENCES

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