## Exercise 00 — Persona Class Description

## ****Purpose of the Persona Class****

The Persona class represents individuals who can interact with the Haircut Appointment System — such as clients, employees (e.g., hairdressers, admins), or other registered users. It serves as a **base class** for managing user credentials, contact information, and basic identity details. This class supports user identification, authentication, and communication (SMS, calls) in the system.

| Attribute Name | Key | Data Type | Length Limit | Required | Default Value | Comments | Notes |
| --- | --- | --- | --- | --- | --- | --- | --- |
| persona\_id | PK | int | — | Yes | Auto-increment | Unique identifier for each persona | persona\_id is the **primary key**. |
| login | PK | string | 50 | Yes | — | Used for system authentication | login must be **unique** to avoid duplicate accounts. |
| password\_hash | — | string | 255 | Yes | — | Hashed password (not plain text) | should store **secure hashed passwords** using algorithms like bcrypt |
| first\_name | — | string | 50 | Yes | — | Given name of the user |  |
| last\_name | — | string | 50 | Yes | — | Surname of the user |  |
| patronymic | — | string | 50 | No | NULL | Optional, relevant in certain cultures |  |
| phone\_number | PK | string | 20 | Yes | — | Used for SMS/calls, format: +CountryCodeNumber | can be validated via regex |
| registration\_date | — | DATE | — | Yes | CURRENT\_TIMESTAMP | Timestamp of account creation | uses the current timestamp automatically upon registration. |

### Key Points:

* AUTO\_INCREMENT ensures automatic unique ID assignment.
* UNIQUE on login prevents duplicate user logins.
* patronymic is nullable.
* registration\_date defaults to the current timestamp.

**Class Diagram** (UML-style) for the Persona class based on your table and attribute structure:

|  |
| --- |
| **Persona** |
| - persona\_id: int {PK}  - login: string [1..1] {unique} {PK}  - password\_hash: string [1..1]  - first\_name: string [1..1]  - last\_name: string [1..1]  - patronymic: string [0..1]  - phone\_number: string [1..1] {PK}  - registration\_date: datetime |

### Notes:

* {PK} = Primary Key
* [1..1] = required field
* [0..1] = optional field (nullable)