Object-oriented programming

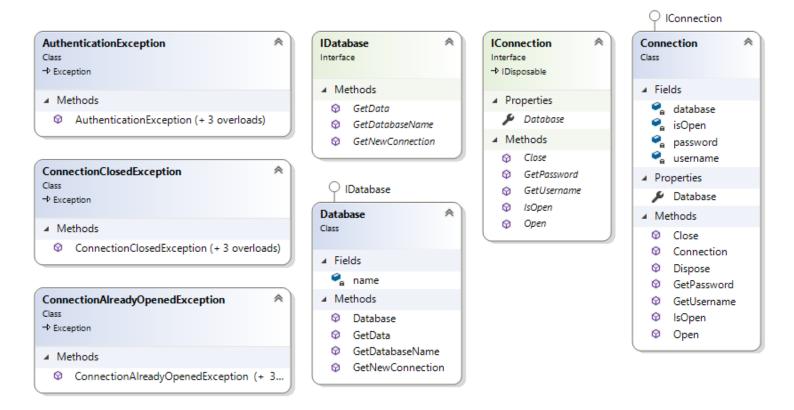
Laboratory classes

Task 4: Interfaces

Individual task

The goal of this task is to create and use a library that will simulate access to the database from the application level.

- 1. Start the Visual Studio IDE.
- 2. Create a solution (*Task4*) containing a new class library project and name it *DataAccess*.
- 3. Download the *IDatabase* and *IConnection* interfaces from the course page and implement them in the *Database* and *Connection* classes, respectively (but do not change the downloaded files).
- 4. Protect the library against user errors by defining and using appropriate exceptions (entering an incorrect password, attempt to close an unopened connection, attempt to download data without establishing a connection).
- 5. Create a new application project and test your library. Add the *Person* class [*IdNumber* (int), *FirstName* (string), *FamilyName* (string)] in the application-project, use data downloaded from the database to create a list of persons.
- 6. Delete people with even *IdNumbers* numbers.
- 7. Using the *Sort* method of the *List <T>* class, order the remaining people ascending according to *IdNumber*, and then display all information about those people.
- 8. Try entering the wrong password, retrieve data when the connection is closed, etc.





- FirstName
- IdNumber
- Methods