

## **Non-Functional Requirements:**

### **1. General Information**

- The application is a desktop program for managing university students' tasks.  
Technologies: .NET, Entity Framework (EF), Blazor, PostgreSQL.

### **2. Interface Language**

- Ukrainian.

### **3. Software Requirements**

- Operating System: Windows 10/11.
- Runtime Environment: .NET (version 8.0 or the latest at the time of development).
- DBMS: PostgreSQL.

### **4. Security**

- Registration and login are implemented using JWT tokens.
- User authorization via last name, first name, and password.
- Passwords are stored in hashed form.
- Password requirements: minimum 8 characters, including uppercase and lowercase letters, numbers, and a special character.
- Team administrator has separate access rights.
- Data between the client and database is transmitted over a secure connection.

### **5. Reliability**

- The program must correctly handle database connection errors (notify the user without crashing).
- In case of improper user termination (e.g., PC shutdown), the database data must not be corrupted.
- Database backup is performed by the system administrator (outside the program).

### **6. Usability**

- The interface must be intuitive and clear, without cluttered buttons or menus.
- Calendar, schedule, and list of subjects are accessible from the side navigation.

