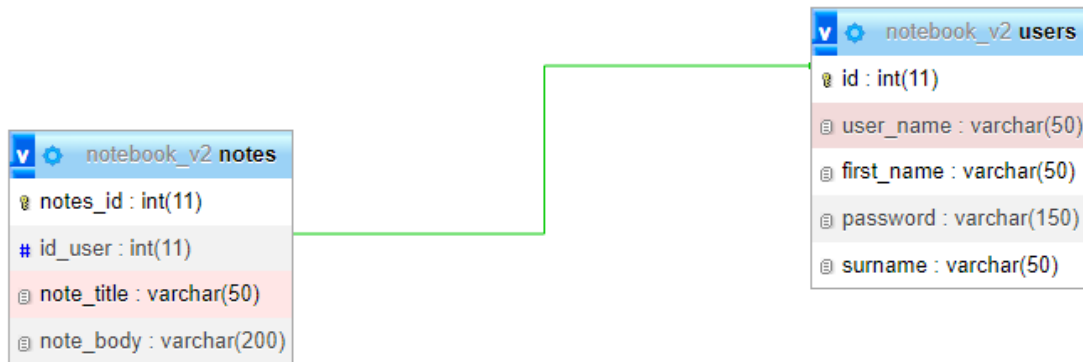


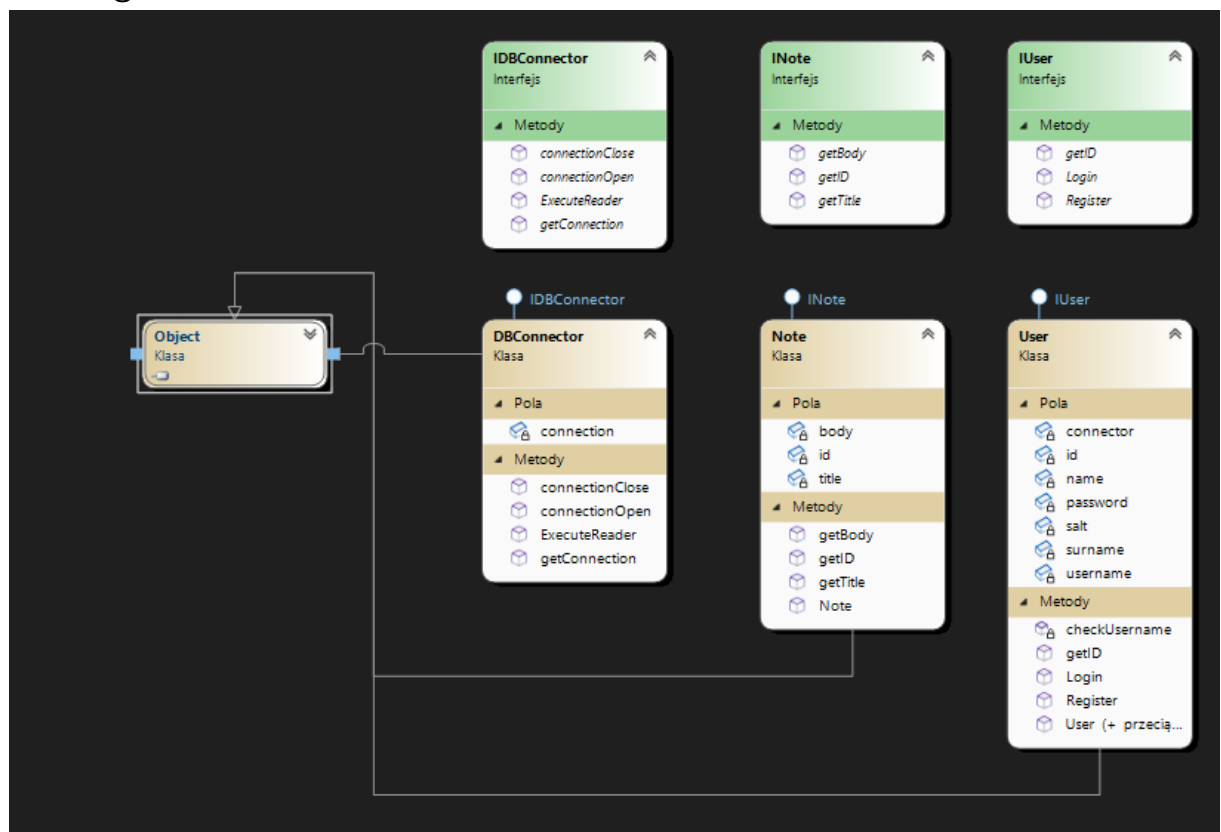
Michał Riabcew, Laboratorium 4

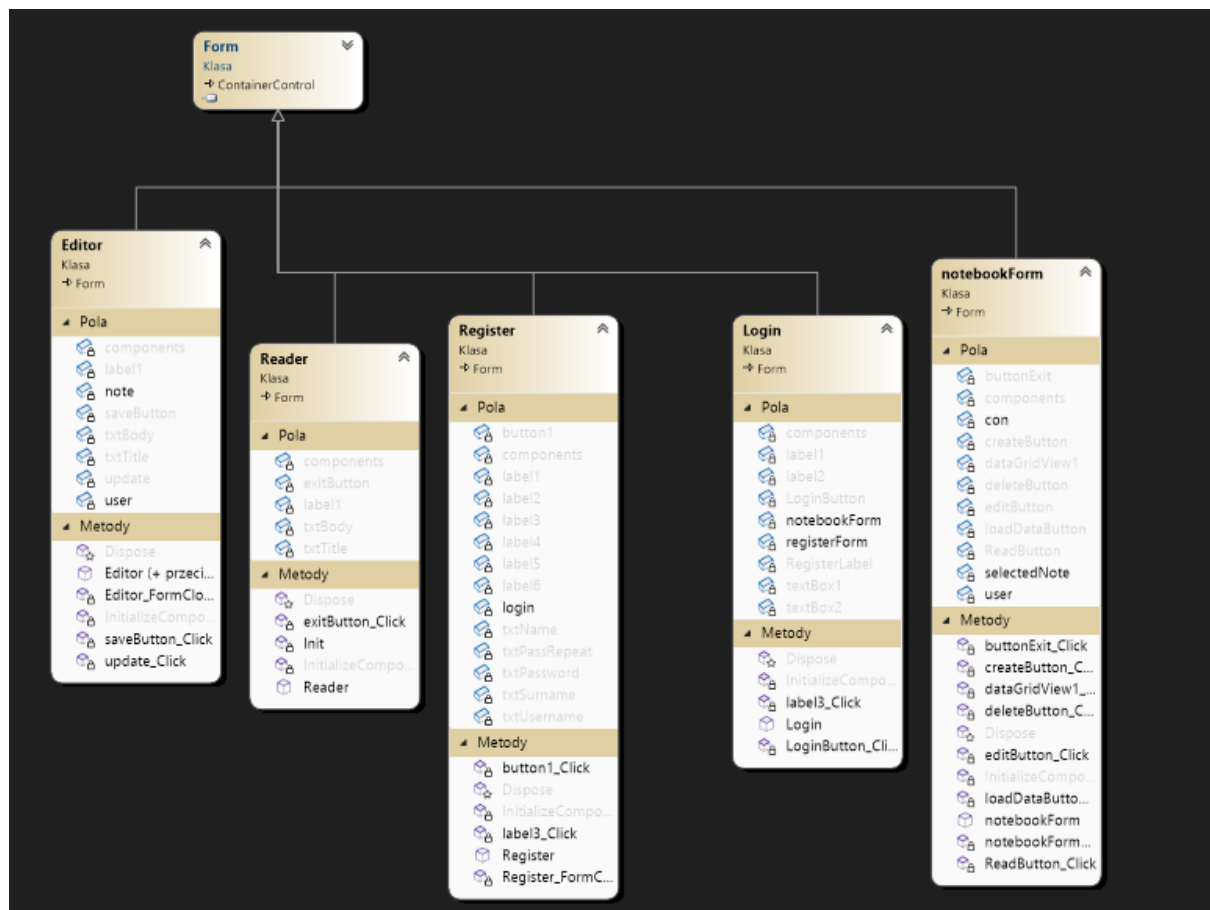
1. Tabele i relacje:

Relacją między tabelami jest jeden do wielu (jeden użytkownik może mieć wiele notatek)



2. Diagram klas





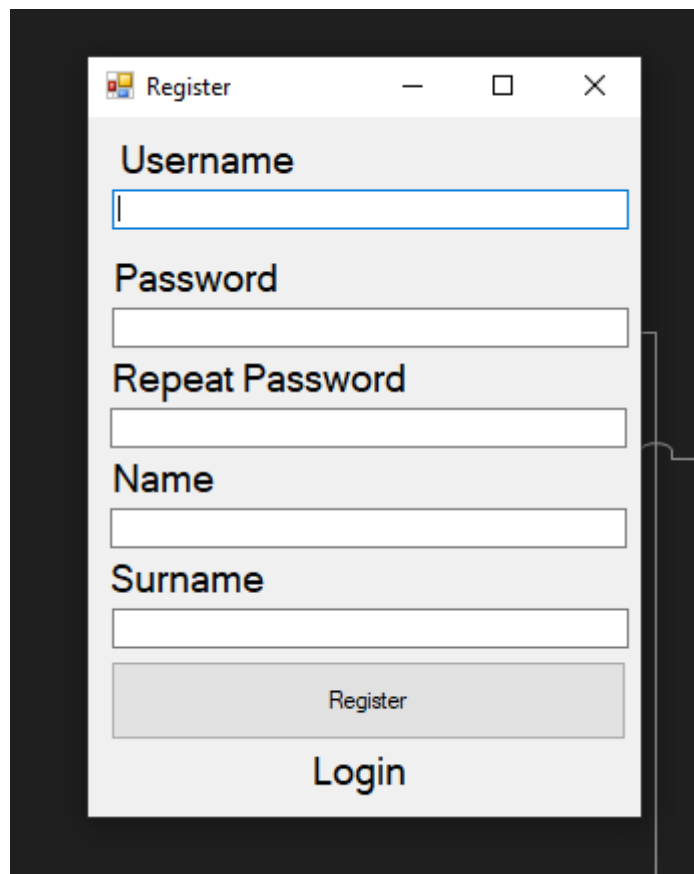
3. Działanie programu:

The image displays two screenshots of a Windows application window titled "Login". The window has a standard Windows title bar with minimize, maximize, and close buttons. The main content area is light gray and contains the following elements:

- A label "Username" above a text input field.
- A label "Password" above a text input field.
- A gray button labeled "Login" below the password field.
- A link labeled "Register" below the "Login" button.

The top screenshot shows the initial state where both input fields are empty. The bottom screenshot shows the state after the user has entered "test_usr" in the Username field and "123" in the Password field. The "Login" button and "Register" link remain visible and unchanged.

Po uruchomieniu użytkownikowi otwiera się panel logowania, może łatwo przejść do panelu rejestracji:



A screenshot of a Windows application window titled "Register". The window has a standard Windows title bar with minimize, maximize, and close buttons. The main content area is light gray and contains several input fields and buttons. The fields are labeled "Username", "Password", "Repeat Password", "Name", and "Surname". Below these fields is a "Register" button and a "Login" button. The "Login" button is positioned below the "Register" button and is slightly larger and more prominent.

Register

Username

Password

Repeat Password

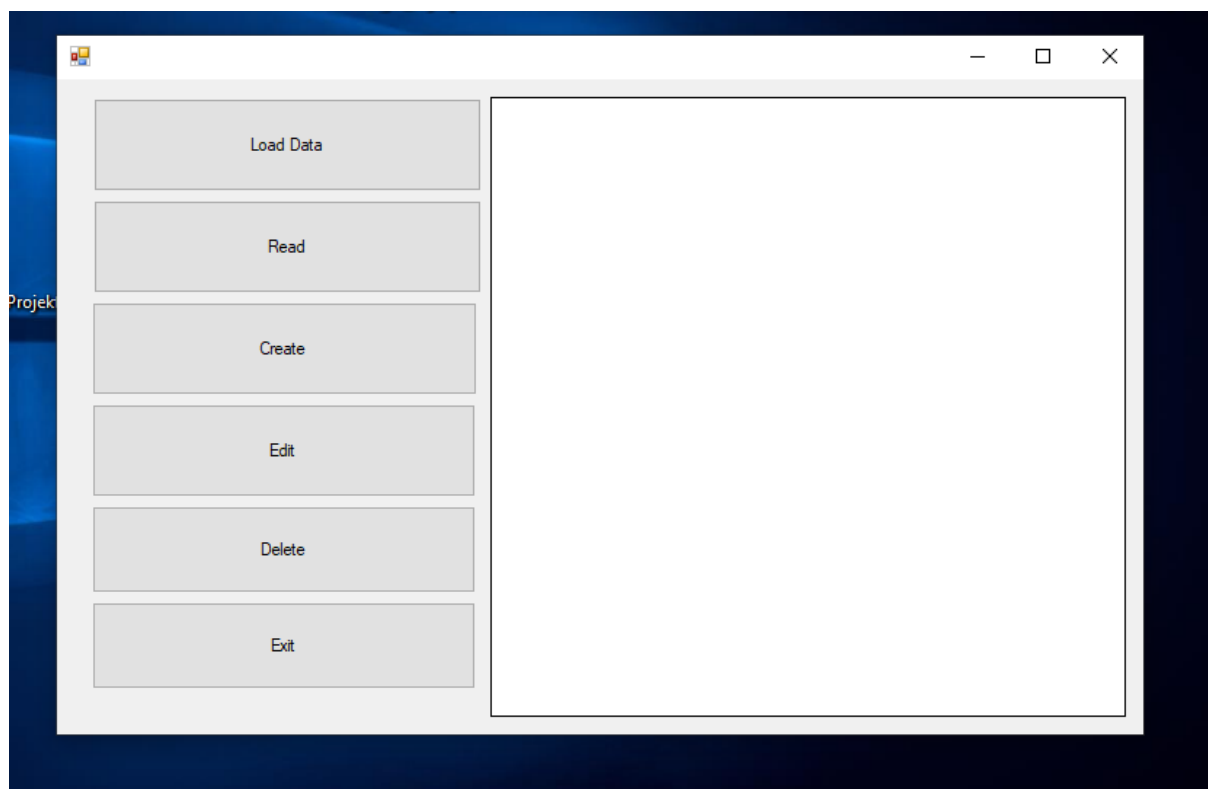
Name

Surname

Register

Login

Po zalogowaniu użytkownik zobaczy główny panel naszej aplikacji:



A screenshot of the main application panel. The window has a title bar with minimize, maximize, and close buttons. The main content area is light gray and contains a vertical stack of six buttons on the left side: "Load Data", "Read", "Create", "Edit", "Delete", and "Exit". To the right of these buttons is a large, empty rectangular area, likely intended for displaying data or a list.

Load Data

Read

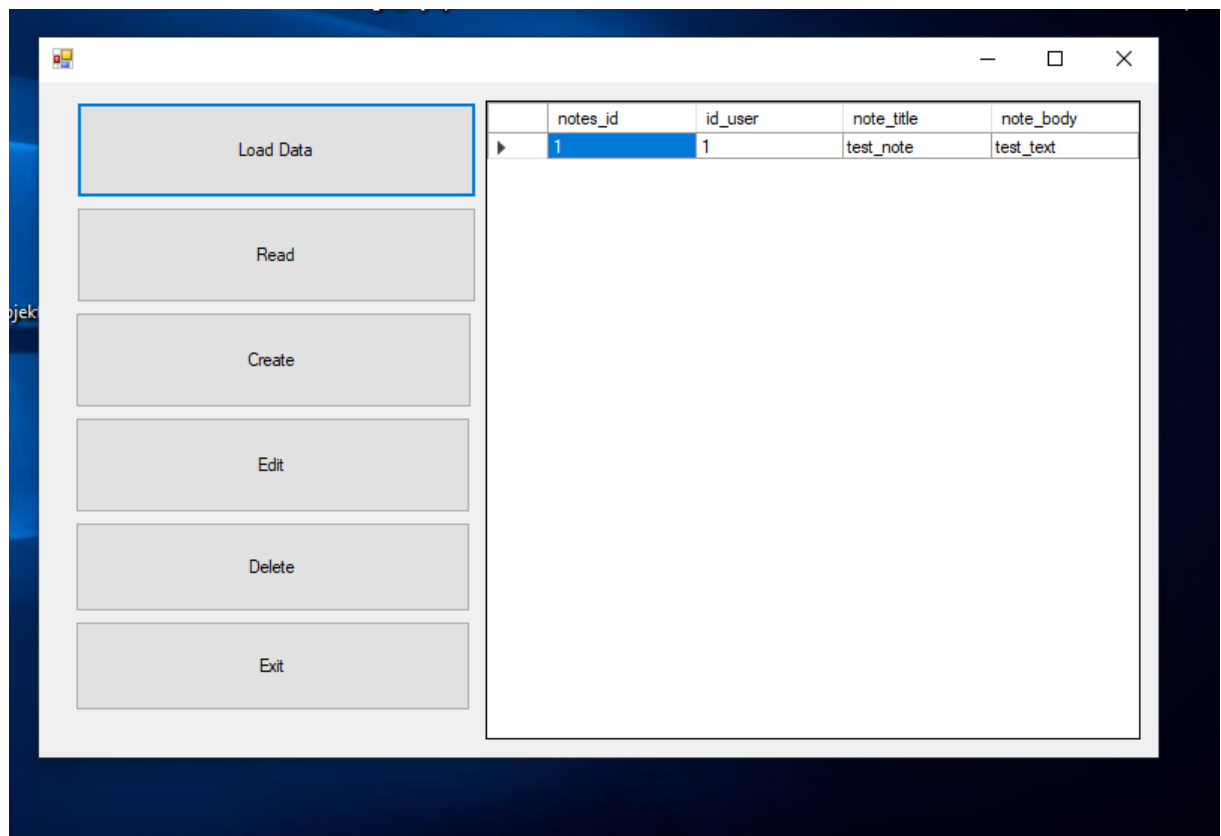
Create

Edit

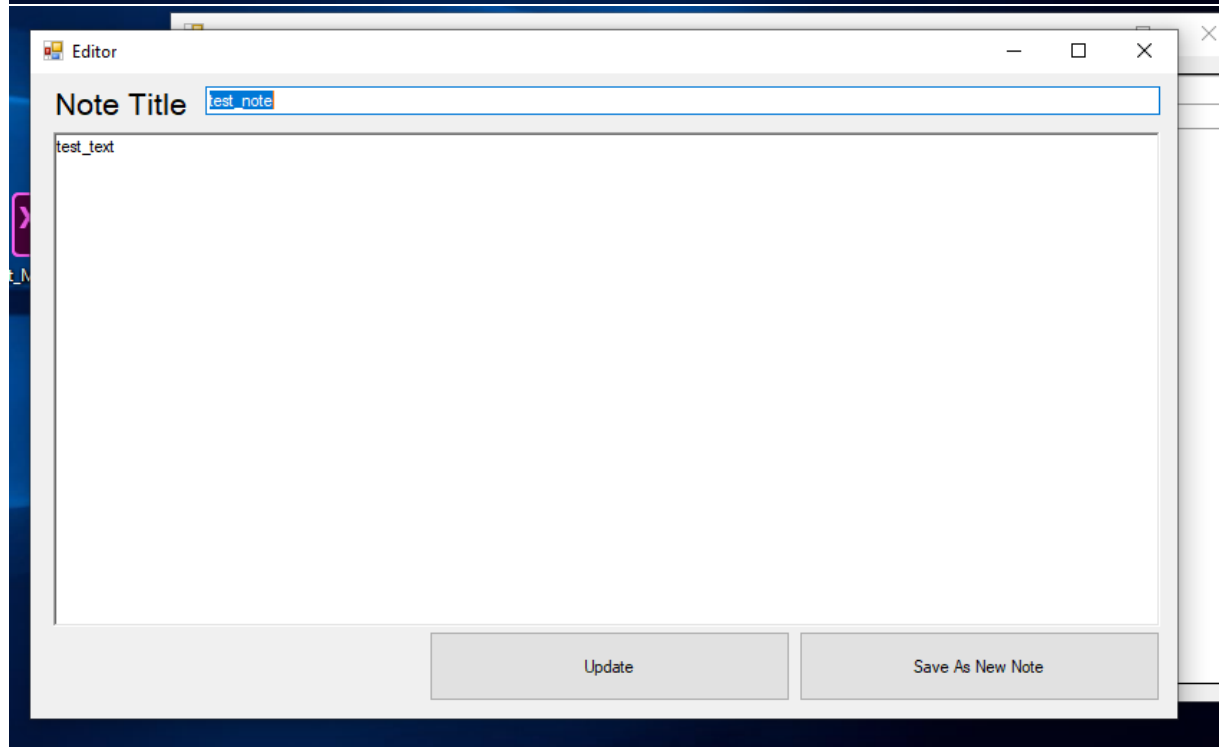
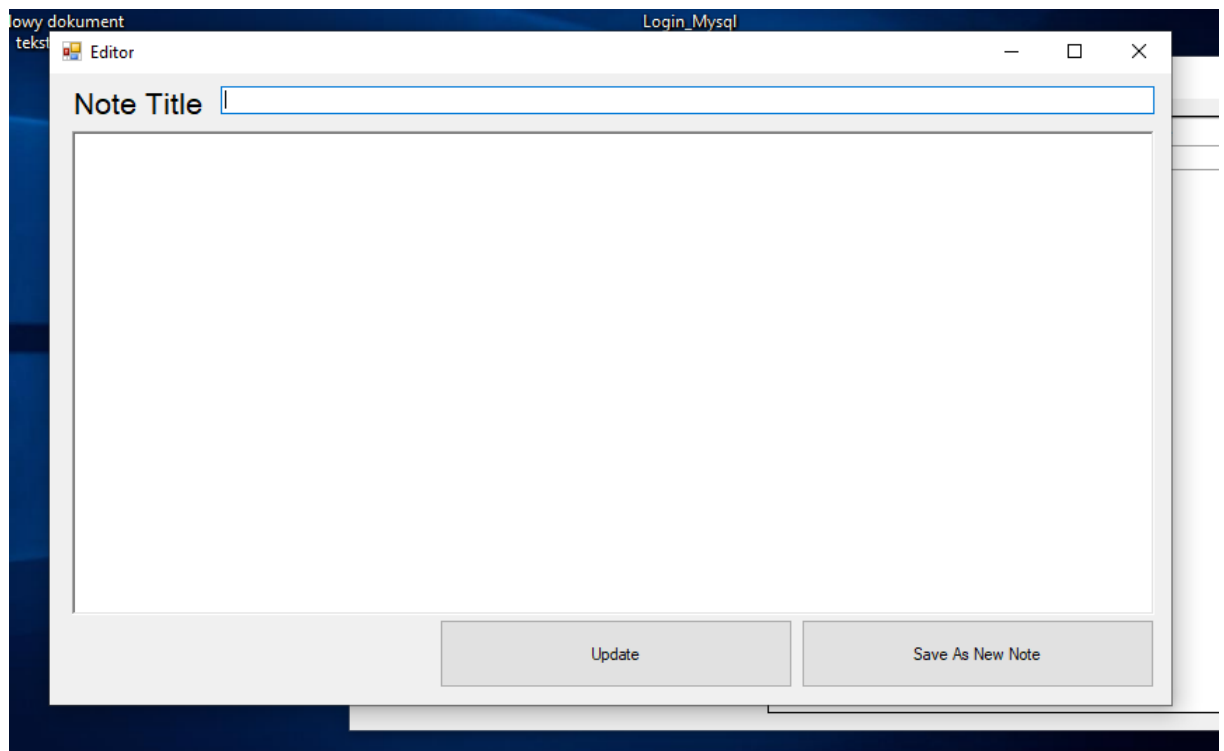
Delete

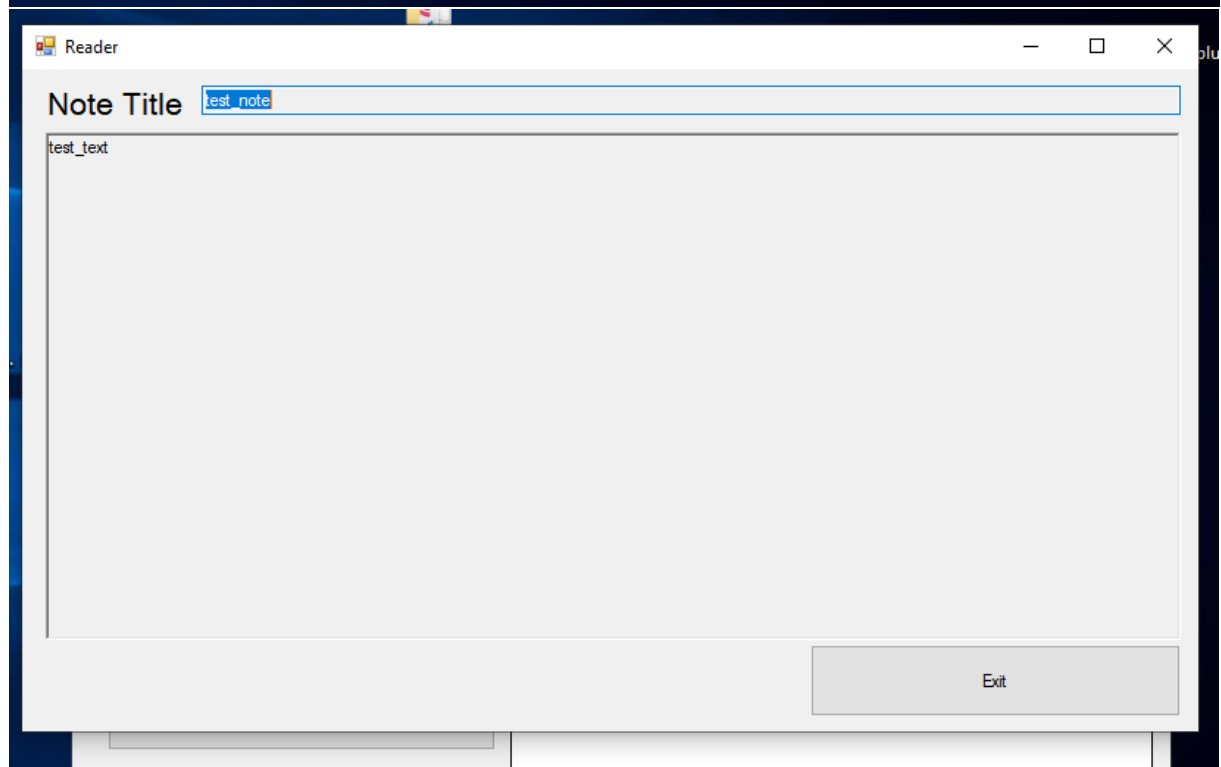
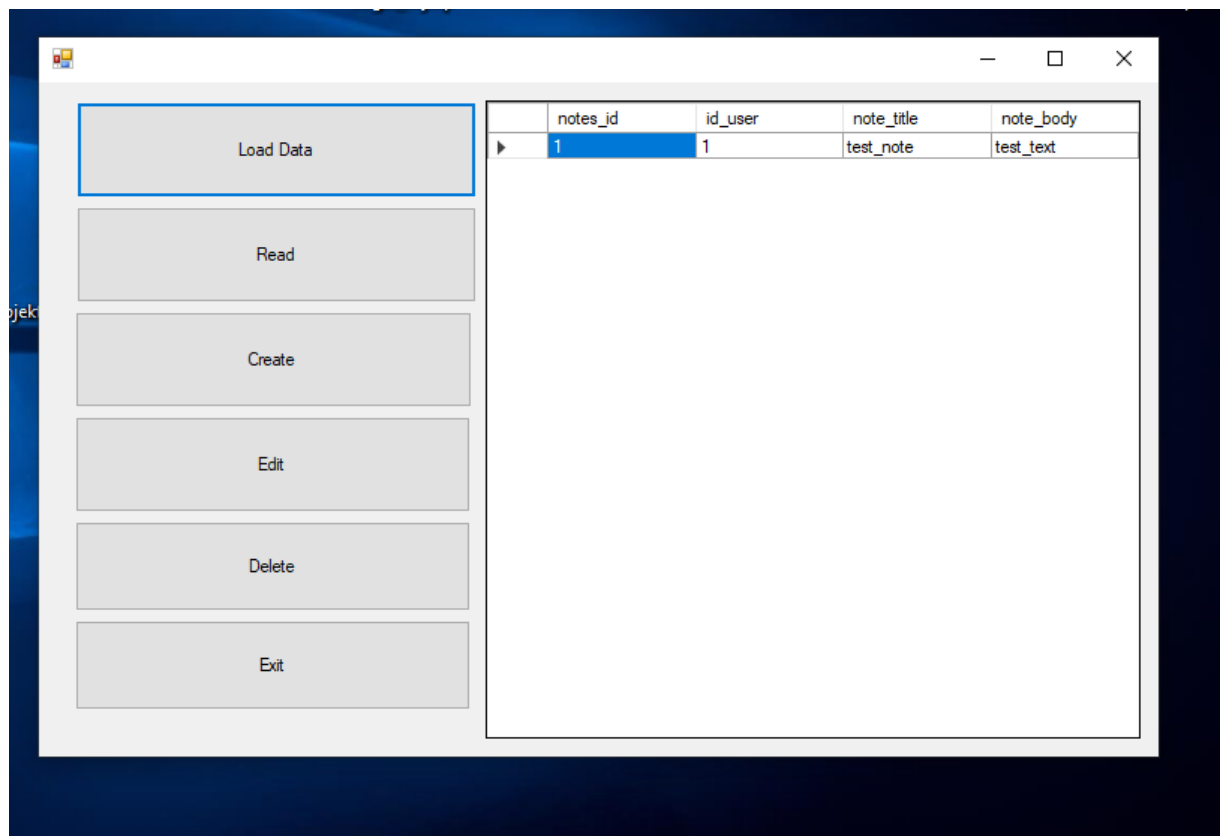
Exit

Po wczytaniu danych z bazy uzyska dostęp do swoich notatek:









Notatki można tworzyć (Create), czytać (Read), edytować i aktualizować (Update), oraz usuwać (Delete).











4. Przykładowe dane w bazie danych:

4.1. Tabela users:

<div>⬅️⬆️➡️</div>			id	user_name	first_name	password	surname
<input type="checkbox"/>	 Edytuj	 Kopiuj	 Usuń	1	test_usr	test_n	\$2b\$10\$.7Lwn7WkHRWaFYSFmqP6ROelSx6MQopDsnQABEXzUQ7... test_s
<input type="checkbox"/>	 Edytuj	 Kopiuj	 Usuń	2	jas123	Jan	\$2b\$10\$bYBGolfh6ZSZWPIEQMebMuanRdEJbyOf1U1uM5J.o4K... Kowalski

4.2. Tabela notes:

<div>←T→</div>						notes_id	id_user	note_title	note_body	
<input type="checkbox"/>		Edytuj		Kopiuj		Usuń	1	1	test_note	test_text
<input type="checkbox"/>		Edytuj		Kopiuj		Usuń	2	2 2	notatka jasia po update	

Do stworzenia bazy wykorzystano polecenia SQL:

```
CREATE TABLE users (  
  id int NOT NULL,  
  user_name varchar(50) NOT NULL AUTO_INCREMENT,  
  first_name varchar(50),  
  password varchar(50),  
  surname varchar(50),  
  PRIMARY KEY (id)  
);
```

```
CREATE TABLE notes (  
  notes_id int NOT NULL,  
  id_user int NOT NULL AUTO_INCREMENT,  
  note_title varchar(50),  
  note_body varchar(200),  
  PRIMARY KEY (notes_id),  
  FOREIGN KEY (id_user) REFERENCES users(id)  
)
```