UNIVERSITY of INFORMATION TECHNOLOGY and MANAGEMENT
in Rzeszow, POLAND

**FACULTY OF APPLIED INFORMATION TECHNOLOGY**

**Field Of Study: Information Technology**
**Speciality: Programming**

No. of student's record book:
Abylay Assalov w66749

# PROJECT

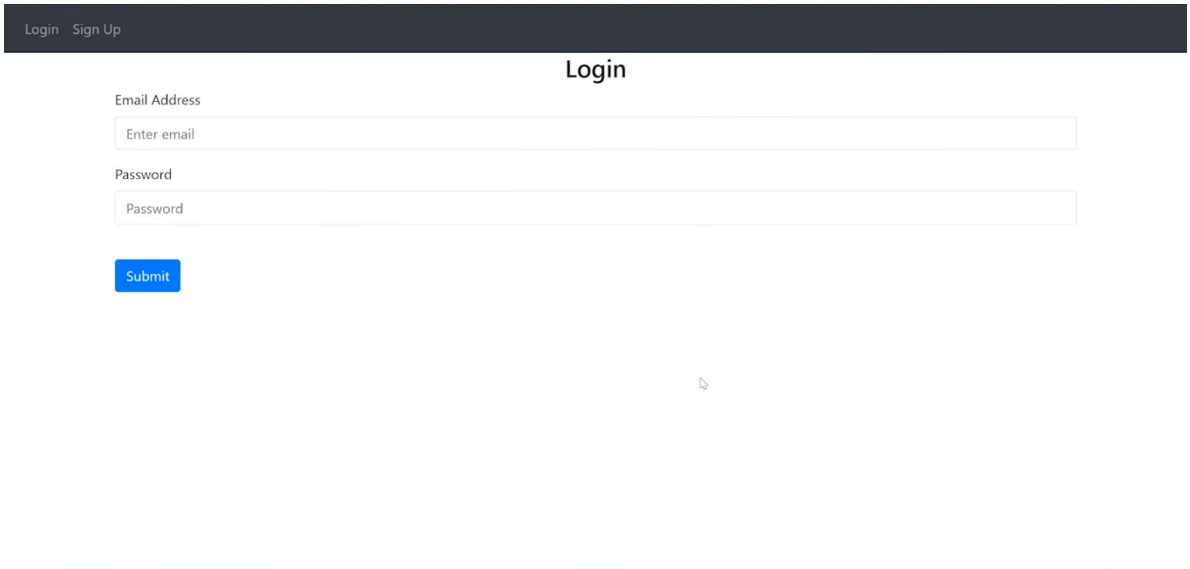
**Course: Web Technology**
**Title: Note hider Website Development**

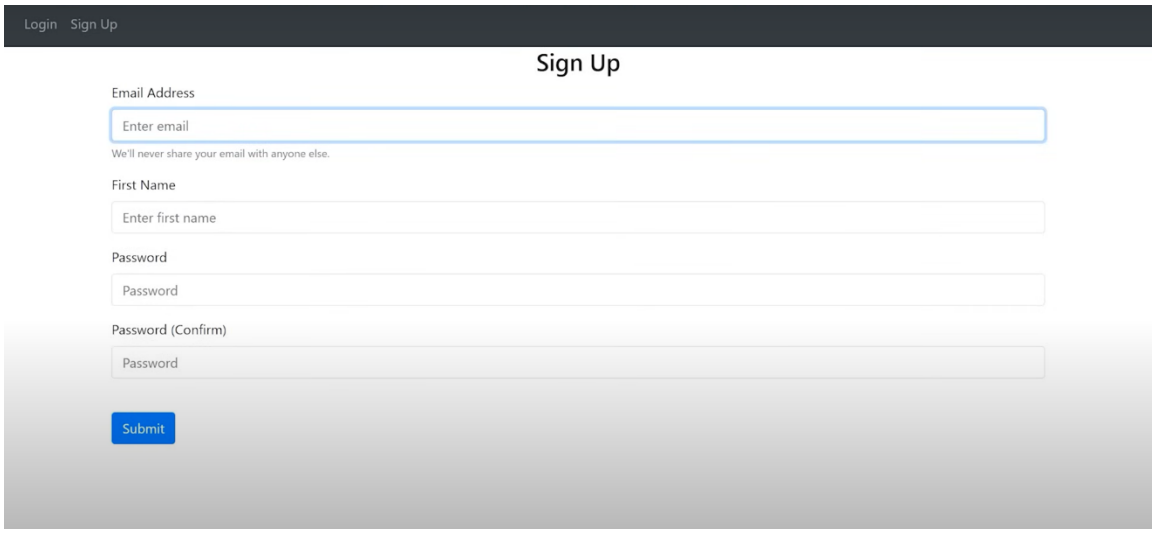
**Rzeszow 2024**

## Introduction:

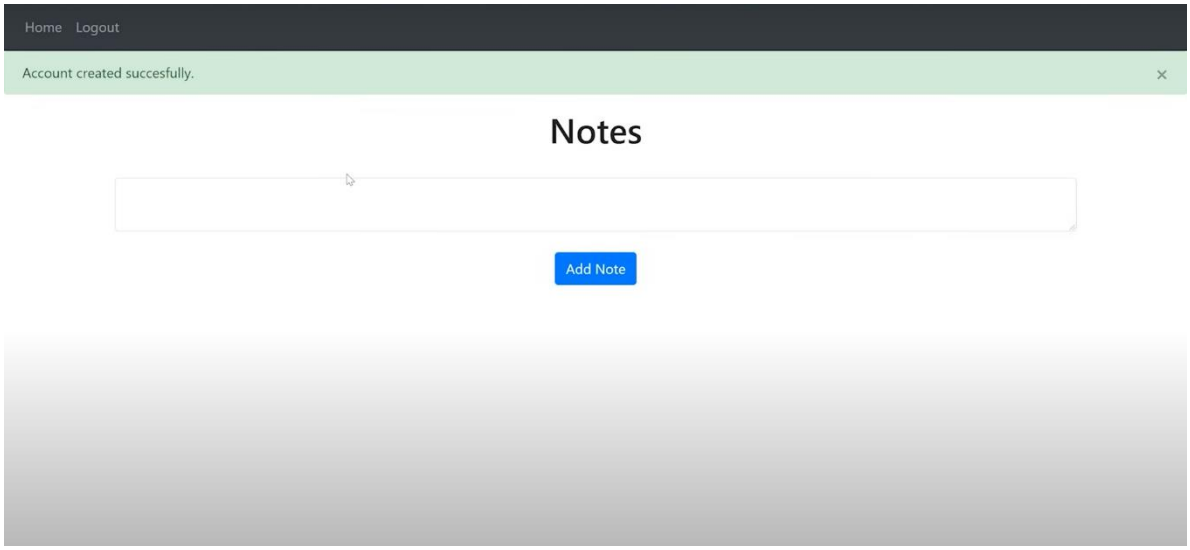
The Note Hider website is a Python-based web application designed to provide users with a secure platform to store and manage their private notes. This project encompasses both front-end and back-end development, along with the integration of a database to ensure efficient data storage and retrieval. The website allows users to create an account, log in securely, and store their sensitive notes in a hidden and encrypted format. The application is built with user privacy and security as top priorities, ensuring that only authorized users can access their stored notes.

## The Main Interface:

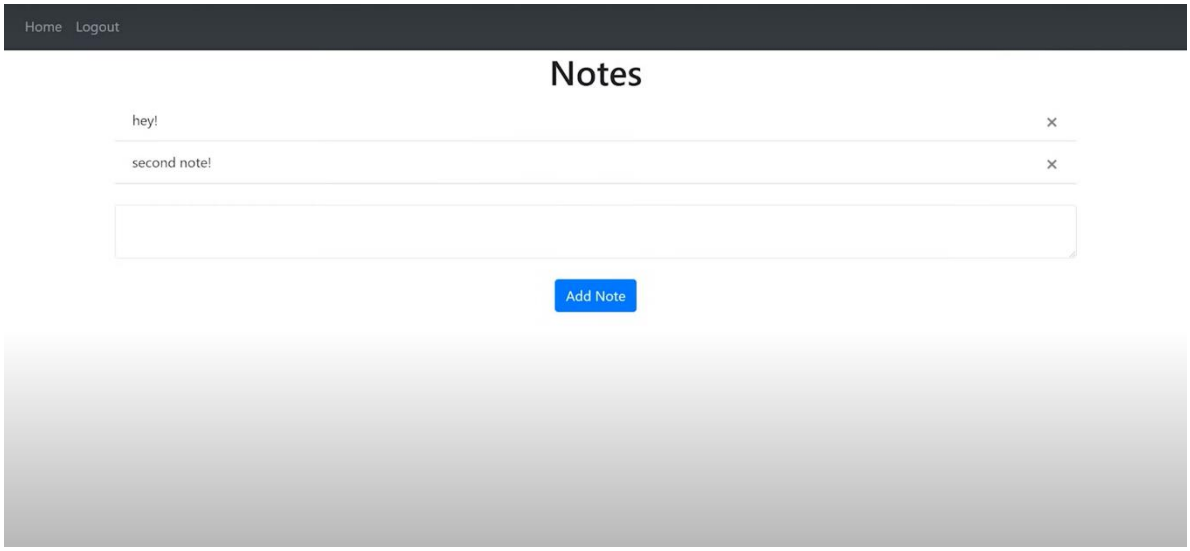


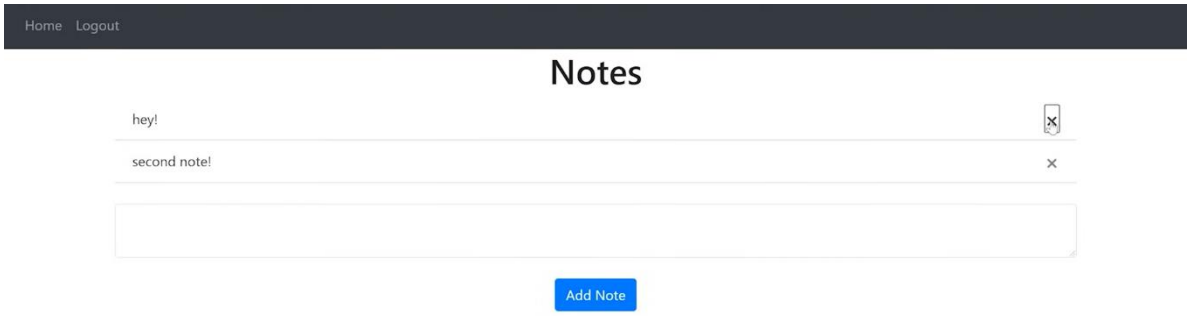




In this section you could sign up for the website, entering your email, first name, and password with password confirmation. After that,your account would be created successfully, and saved in database.

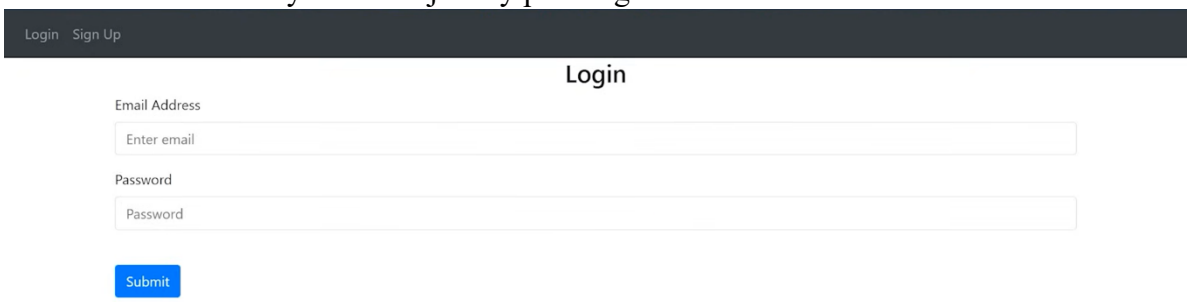



After creating your account in the website, you could enter your notes

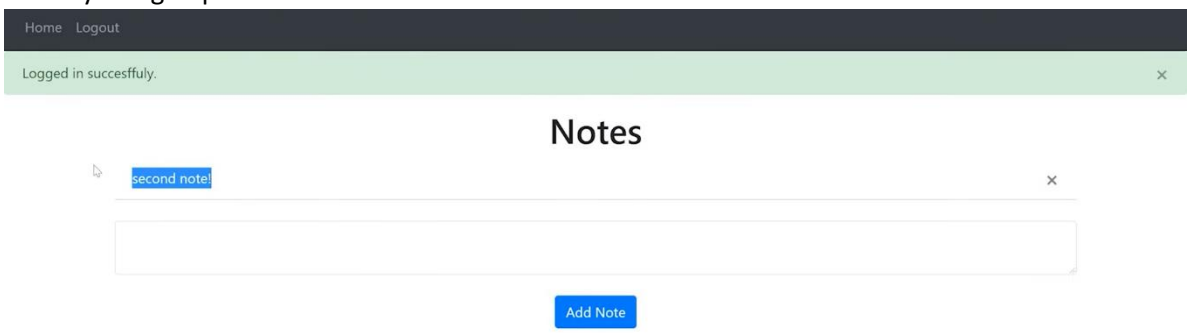





You could also delete your notes just by pressing the icon




After all, to see your notes, or add another notes, you have to login to your account by data with which you sign up for the website



Once you login to your account, you could see your notes, which you added

**Front-end Development:** The front-end of the Note Hider website is developed using HTML, CSS, and JavaScript. It focuses on creating an intuitive and visually appealing user interface for seamless interaction. The front-end design incorporates responsive web design principles to ensure compatibility across different devices and browsers. User input validation is implemented to enhance security and prevent malicious activities.

**Back-end Development:** The back-end of the Note Hider website is built using Python and Flask, a micro web framework. It handles user authentication, note management, and database interactions. The back-end architecture follows the Model-View-Controller (MVC) pattern, separating concerns and ensuring maintainability. Flask-SQLAlchemy is used for database integration, providing an object-relational mapping (ORM) layer for efficient data manipulation.

**Database Integration:** The Note Hider website utilizes SQLite as the database management system. SQLite is chosen for its simplicity, portability, and compatibility with Python. It stores user account information, encrypted notes, and other relevant data in a secure manner. SQLite offers robust transaction support and ACID properties, ensuring data integrity and reliability.

**Conclusion:** In conclusion, the Note Hider website development project showcases the integration of front-end, back-end, and database technologies to create a secure and user-friendly platform for managing private notes. By leveraging Python, Flask, and SQLite, the application provides a reliable solution for users to safeguard their sensitive information. Moving forward, potential enhancements may include additional security measures, such as multi-factor authentication, and scalability improvements to accommodate a growing user base. Overall, the Note Hider website demonstrates the power of Python in developing robust web applications with emphasis on privacy and security.