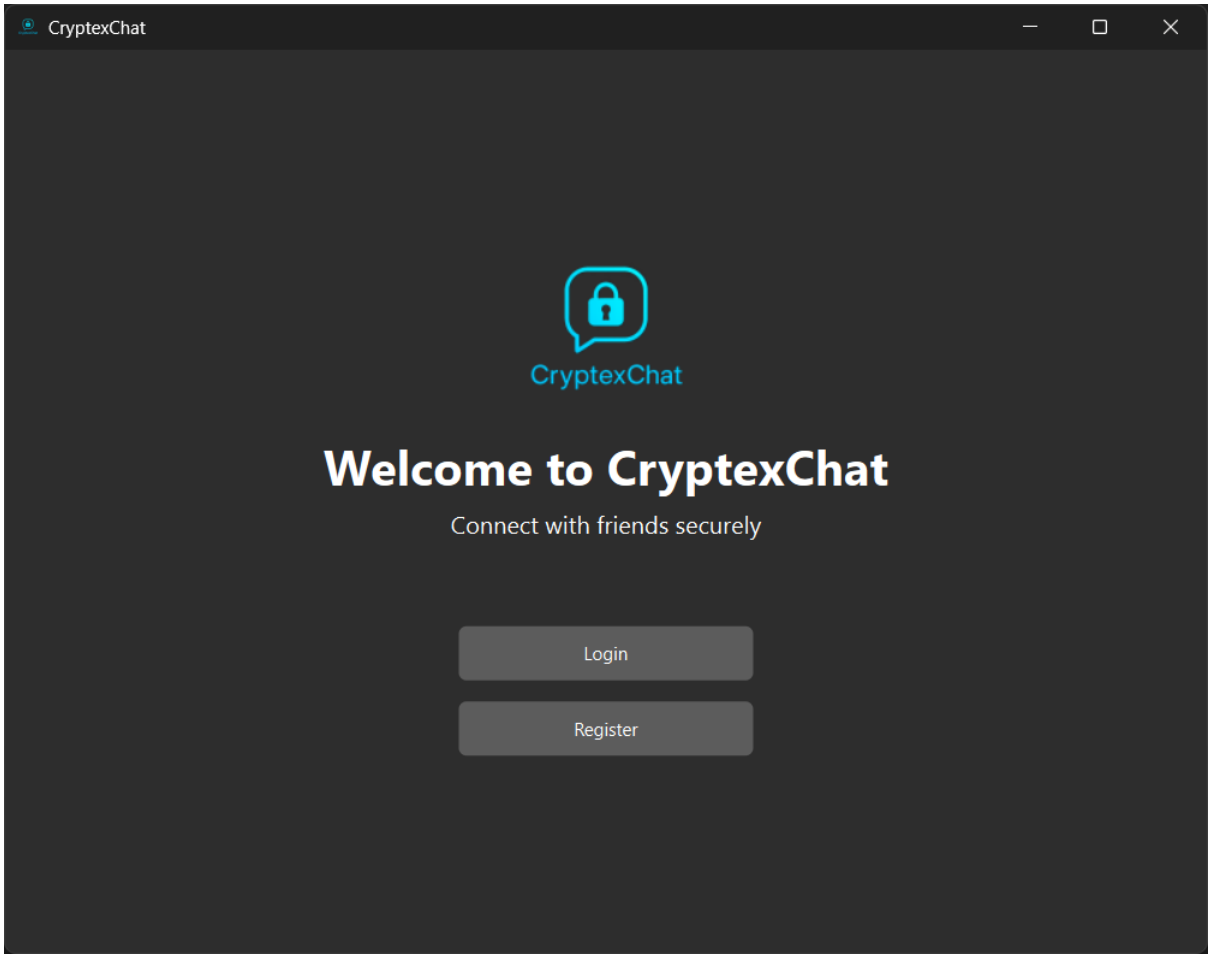
OUTPUT

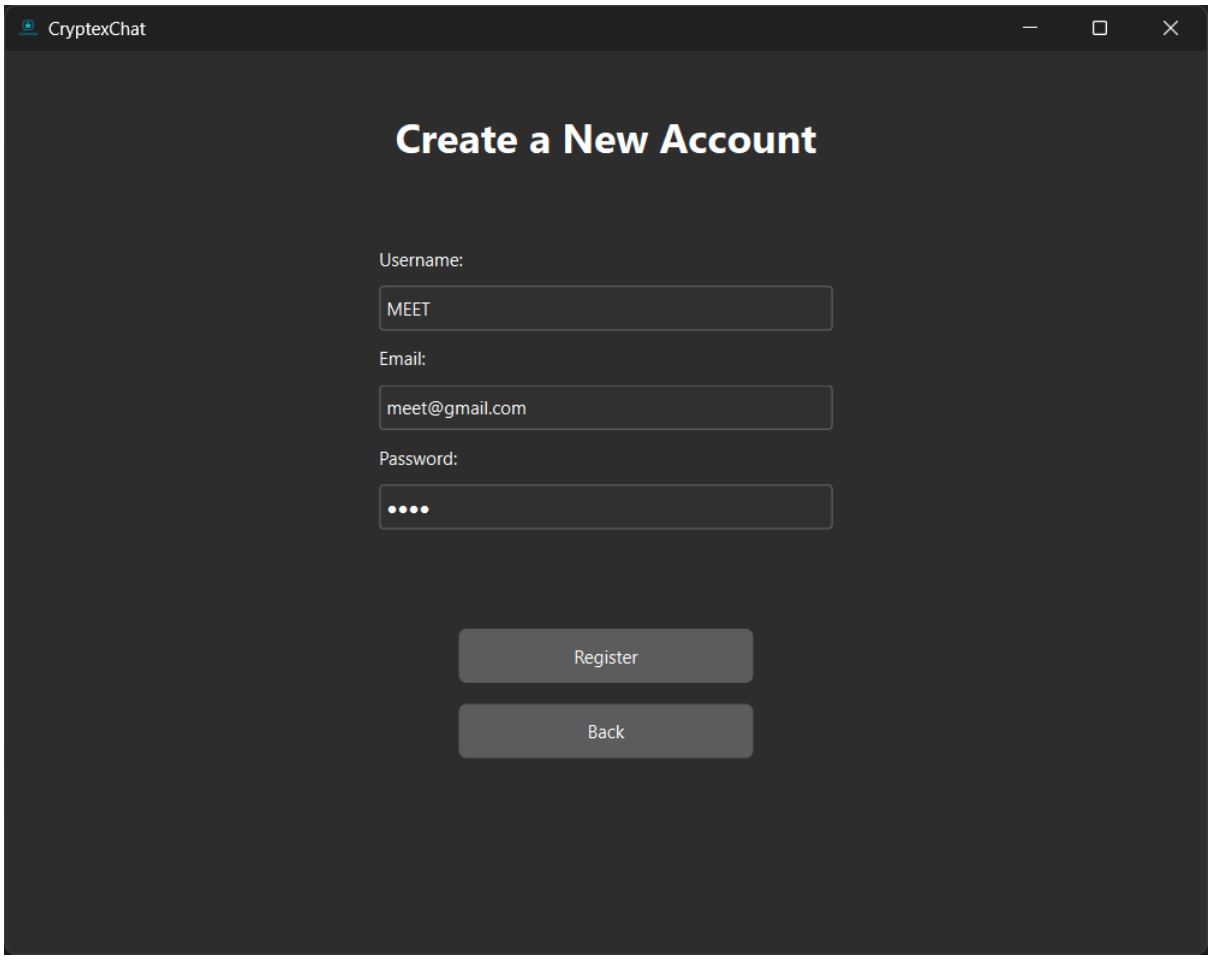
1. Welcome Screen



Features:

- **Clean, professional landing page**
- **Clear branding with "CryptexChat" title**
- **Simple two-option navigation (Login/Register)**
- **Secure messaging value proposition**
- **Minimalist design with dark theme**

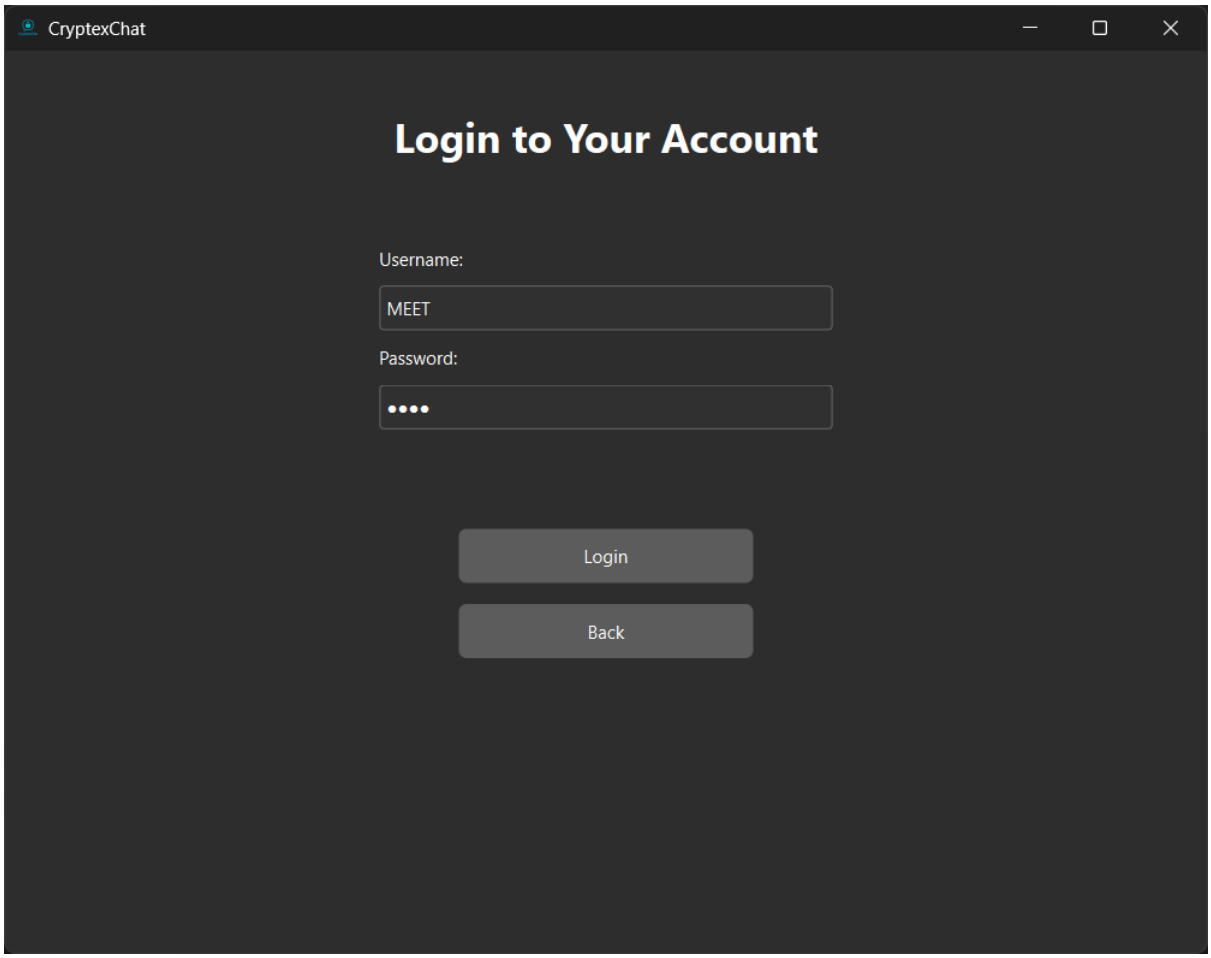
2. Registration Interface



Features:

- **Structured registration form**
- **Three essential fields: Username, Email, Password**
- **Password masking for security**
- **Clear action buttons (Register/Back)**
- **Consistent dark theme**
- **Proper form validation indicators**

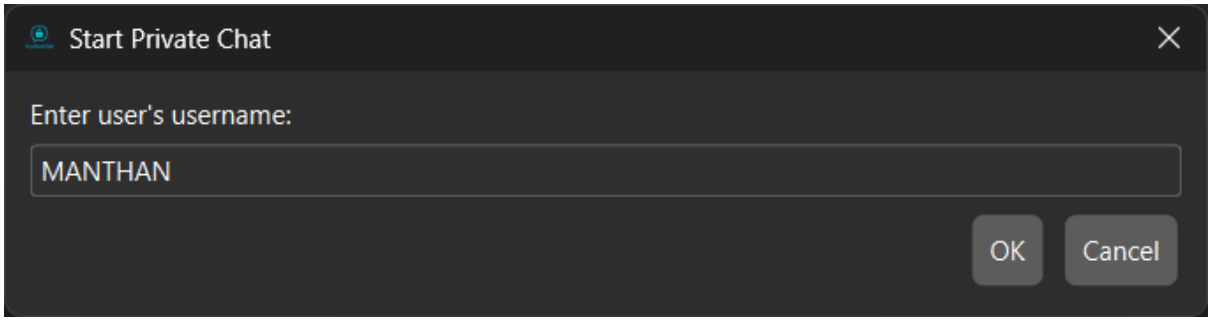
3. Login Interface



Features:

- **Streamlined authentication form**
- **Username and password fields**
- **Secure password input masking**
- **Dual navigation options (Login/Back)**
- **Consistent UI with registration screen**
- **Error handling for failed attempts**

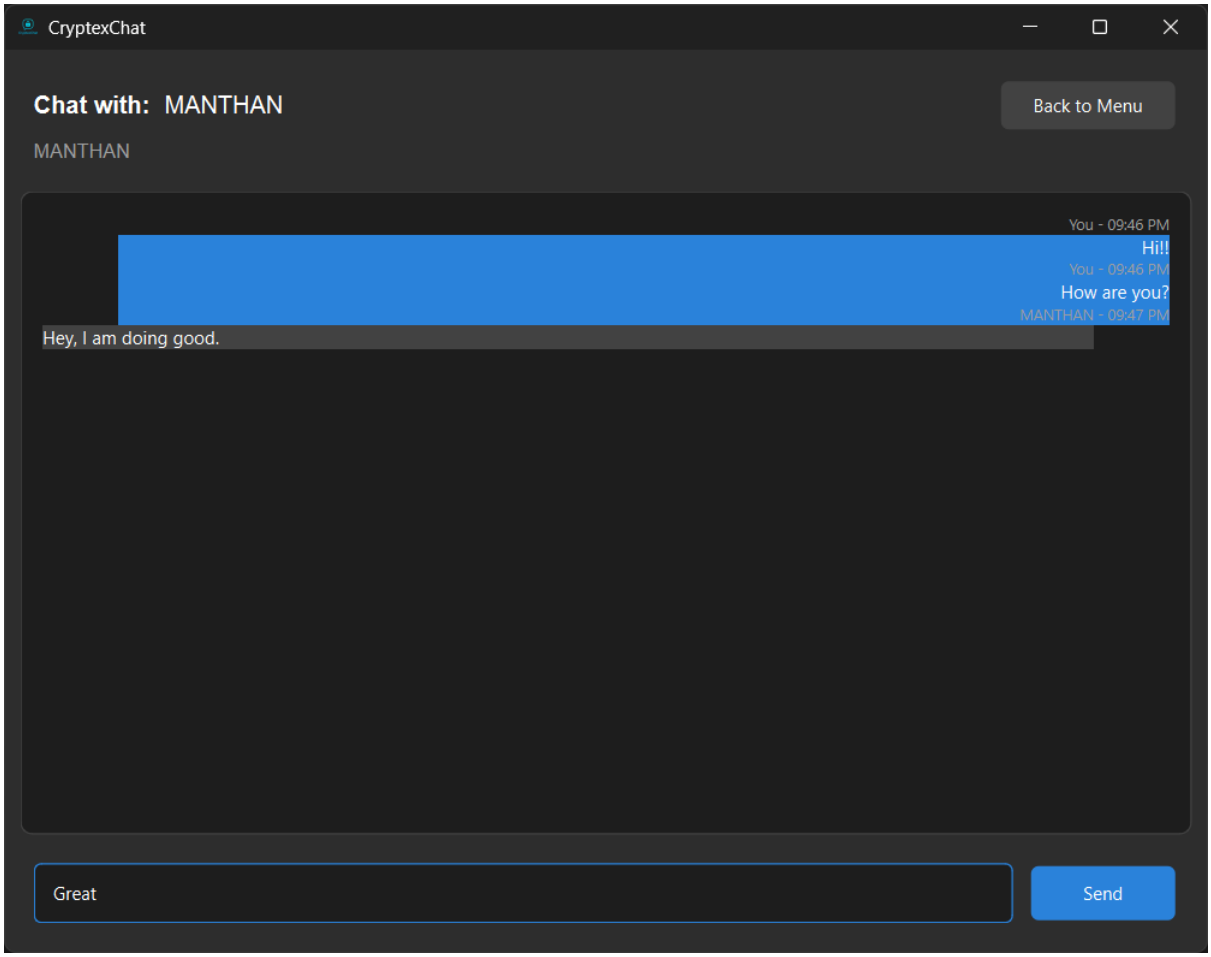
4. Private Chat Initiation



Features:

- **Post-login chat initiation screen**
- **Maintains user context (logged in as "MEET")**
- **Dedicated section for starting private chats**
- **Username input for recipient selection**
- **Clear hierarchy with section headers**
- **Seamless transition from authentication to messaging**

5. Active Chat Interface

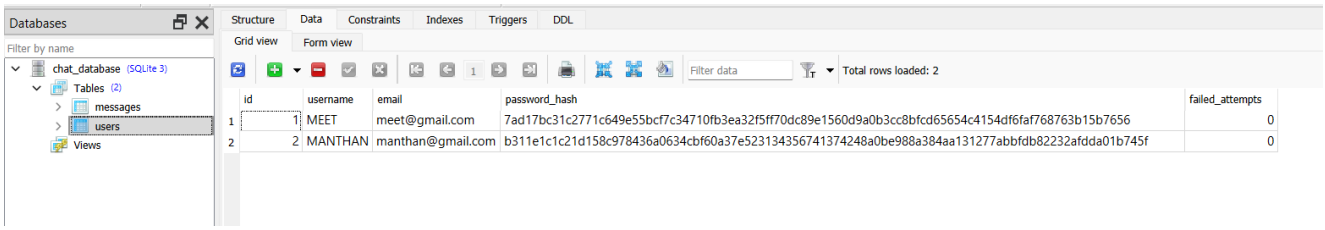


Features:

- **Clear chat header showing active conversation**
- **Recipient identification ("MANTHAN")**
- **Message history display with timestamps**
- **Message bubble styling (incoming/outgoing)**
- **"Back to Menu" navigation option**
- **Real-time message updates**
- **Encrypted message indicators**
- **Online/offline status display**

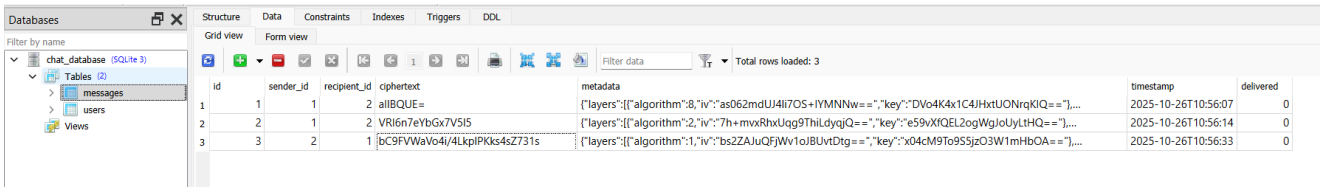
6. Stored Data

6.1. Users Table:



	id	username	email	password_hash	failed_attempts
1	1	MEET	meet@gmail.com	7ad17bc31c2771c649e55bcf7c34710fb3ea32f5ff70dc89e1560d9a0b3cc8bfcd65654c4154df6faf768763b15b7656	0
2	2	MANTHAN	manthan@gmail.com	b311e1c1c21d158c978436a0634cbf60a37e5231343567413742 48a0be988a384aa131277abbfdb82232afdda01b745f	0

6.2. Messages Table:



	id	sender_id	recipient_id	ciphertext	metadata	timestamp	delivered
1	1	1	2	aIIBQUE=	{"layers":[{"algorithm":8,"iv":"as062mdUJ4Ii7OS+IYMNNw==","key":"DVo4K4x1C4JHxtUONrqKIQ==},...	2025-10-26T10:56:07	0
2	2	1	2	VRI6n7eYbGx7V5I5	{"layers":[{"algorithm":2,"iv":"7h+mvxRhxUqg9ThiLdyqjQ==","key":"e59vXfQEL2ogWgJoUyLtHQ==},...	2025-10-26T10:56:14	0
3	3	2	1	bC9FVWaVo4i/4LkpIPKks4sZ731s	{"layers":[{"algorithm":1,"iv":"bs2ZAJuQFjWv1oJBUvtDtg==","key":"x04cM9To9S5jzO3W1mHbOA==},...	2025-10-26T10:56:33	0