

```
Output
Build started...
1>----- Build started: Project: SecureLoginApp,
Configuration: Debug Any CPU -----
1> SecureLoginApp ->
C:\Projects\SecureLoginApp\bin\Debug\SecureLoginApp.exe
===== Build: 1 succeeded, 0 failed, 0 up-to-date,
0 skipped =====
Application started successfully.
MainForm initialized.
Configuration: Debug Any CPU -----
1> SecureLoginApp ->
C:\Projects\SecureLoginApp\bin\Debug\SecureLoginApp.exe
===== Build: 1 succeeded, 0 failed, 0 up-to-date,
0 skipped =====
Application started successfully.
MainForm initialized.
Loading users from: users.json
Ready for user input...
[10:55:25 PM] Application loaded with 1 existing user
```

1. Visual Studio Interface:

Solution Explorer dengan struktur project
Code tabs menunjukkan file yang sedang dibuka
Output window menampilkan build log dan runtime messages

2. Windows Forms Application:

Window title bar dengan ikon aplikasi
Tab control untuk Register dan Login
Form controls dengan styling Windows Forms
Status bar di bagian bawah

3. Output Console Messages:

```
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4. Runtime Behavior:

Saat menjalankan dan test aplikasi, output window akan menampilkan:

Registration attempt for username: john123
Validation failed: Invalid password length (jika error)

User registered successfully (jika berhasil)
Password hashed using SHA256 with salt
Login attempt for username: testuser
Authentication successful