

User Authentication and Profile Management

1. Introduction

The task was to create a **Wellness Chatbot** using **Streamlit** without needing CSS, HTML, or external frontend code. Streamlit is a Python library that helps developers quickly build interactive web applications. This project provides a **secure user registration and login system**, stores profile details in an **SQLite database**, and allows users to **manage their profile** by updating personal information and selecting their **preferred language (English or Hindi)**. The application demonstrates how Streamlit can be extended beyond simple dashboards to handle **authentication**, **database storage**, **and multilingual support**.

2. Objectives

- Implement a secure user registration system with fields like Name, Age, Gender, Email, and Password.
- Provide a **login system** with authentication using hashed passwords.
- Store user information in an SQLite database (wellness.db).
- Allow users to update profile details (name, age, gender, language).
- Enable users to change password after login.
- Provide multilingual support (English and Hindi) for UI elements.
- Design a clean and modern **UI/UX** with Streamlit card-style layout.

3. Code Implementation

```
import streamlit as st
import sqlite3
from passlib.hash import sha256_crypt
# Database setup
conn = sqlite3.connect("database/wellness.db")
cursor = conn.cursor()
cursor.execute("""
CREATE TABLE IF NOT EXISTS users (
  id INTEGER PRIMARY KEY AUTOINCREMENT,
  email TEXT UNIQUE
```

```
password TEXT,
  full_name TEXT,
  age INTEGER,
  gender TEXT,
  language TEXT
)
conn.commit()
# Registration
def register_user(email, password, full_name, age, gender, language):
  hashed = sha256_crypt.hash(password)
  try:
    cursor.execute("INSERT INTO users (email, password, full name, age, gender, language)
VALUES (?, ?, ?, ?, ?, ?)",
            (email, hashed, full name, age, gender, language))
    conn.commit()
    return True
  except sqlite3.IntegrityError:
    return False
# Login
def login_user(email, password):
  cursor.execute("SELECT id, password FROM users WHERE email=?", (email,))
  user = cursor.fetchone()
  if user and sha256_crypt.verify(password, user[1]):
    return user[0]
  return None
# Profile Management
def get_user(user_id):
```

4. Explanation of Code

- **import streamlit as st** → Imports the Streamlit library to build the web interface.
- **import sqlite3** → Connects to the SQLite database (wellness.db) for storing user data.
- from passlib.hash import sha256_crypt → Provides secure password hashing for registration and login.

Database Initialization

- A users table is created with fields: id, email, password, full_name, age, gender, language.
- Ensures persistence of user accounts.

Registration Function (register_user)

- Accepts Name, Age, Gender, Email, Password, Language.
- Hashes the password using sha256_crypt.
- Stores the user details in the database.
- Returns False if the email already exists.

• Login Function (login_user)

- Verifies user credentials with sha256 crypt.verify.
- Returns the user's ID if login is successful.

Profile Management (get_user, update_user)

- get_user → Retrieves stored profile details of the logged-in user.
- update user → Updates Full Name, Age, Gender, Language in the database.

Streamlit Pages (Frontend)

- Register Page → Form with Name, Age, Gender, Email, Password, Confirm Password, Language.
- Login Page → Email and password input fields with authentication.
- Profile Management Page → Displays user details, allows profile updates, and password change.

• Language Preference

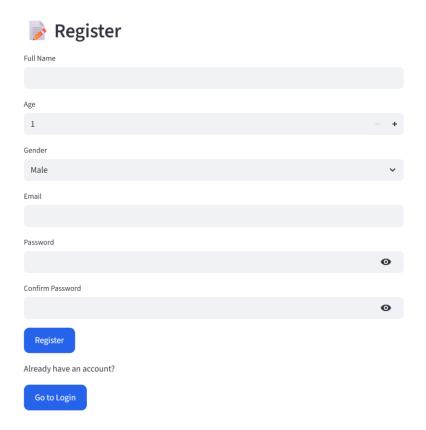
- Users can select English or Hindi.
- The interface text changes dynamically based on the saved preference.

Session State

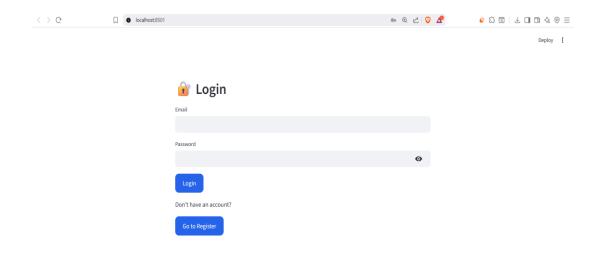
- Maintains whether a user is logged in or logged out.
- Allows smooth navigation between Register \rightarrow Login \rightarrow Profile.

5. Output Screenshots

Step-1: Register Your details



Step-2: After completion of your Register, Login Page will be opened

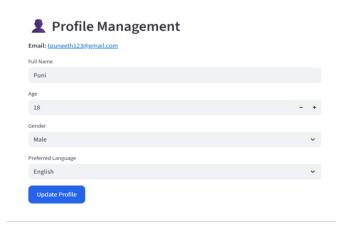


Step-3: Enter Login Credentials

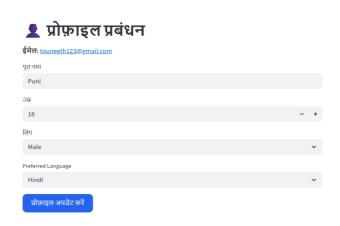


Step-4: Multilingual Interface (English/Hindi)

English: -



Hindi: -



Deploy :

Step-5: Change Password



6. Conclusion

The Wellness Chatbot is a secure, user-friendly system that supports registration, authentication, and profile management. It stores details such as name, age, gender, email, and preferred language in a SQLite database, ensuring persistence and reliability. With multilingual support in English and Hindi, the app improves accessibility, while features like password management and profile updates enhance usability. Overall, the project shows how Streamlit can be applied beyond dashboards to build complete web applications with strong authentication and database integration.