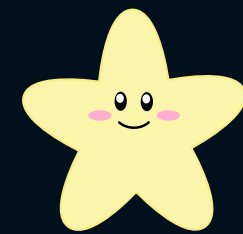




GROUP PROJECT

DREAM ANALYZER





MOTIVATION FOR CREATING DREAM ANALYZER

Our team often has vivid and fascinating dreams, but their details quickly fade after we wake up. We hope this website will be a simple, fun way to record and revisit those dreams — making dream journaling something to enjoy each morning.



FEATURES OVERVIEW

1. User Login / Registration

- Users can create an account and log in securely
- Required for accessing dream recording and analysis features

2. Database Support

- Stores registered users' account and password (encrypted)
- Supports keyword-based search for dream entries
- Efficient data retrieval and management using SQL

3. Dream Keyword Interpretation

- Automatically detects keywords in dream descriptions
- Provides basic psychological meanings for keywords
- Helps users understand possible emotional or symbolic meanings behind dreams



An illustration of a woman with long black hair, wearing a pink tank top, sitting up in bed with a yellow blanket. She has her hand over her face, looking distressed. Above her is a yellow alarm clock with blue bells and a yellow wavy line representing a sound wave. The background is a dark blue night sky with stylized white clouds and a cityscape with lit windows visible in the distance.

SYSTEM ARCHITECTURE DIAGRAM

- Client (User Side)
 - ↓
- [Frontend Interface (HTML/CSS/JS)]
 - ↓ HTTP Request (POST / GET)
- [Backend Server (PHP)]
 - ↓ SQL Query / Insert
- [Database (MariaDB)]



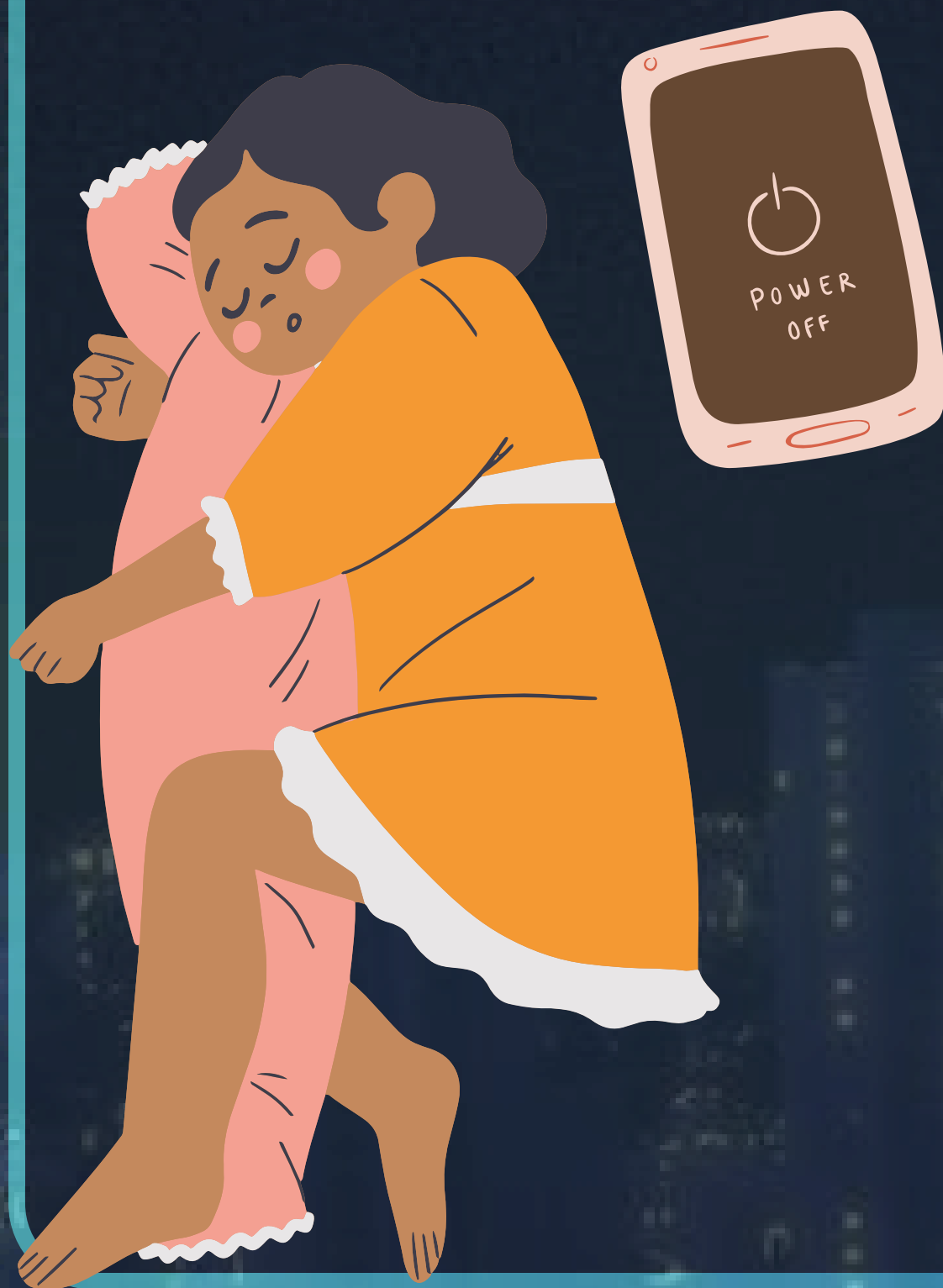
MODULES

- **index.php**: Main landing page. Redirects users to dream analysis or history after login.
- **analyze.php**: Accepts user-submitted dream content, detects predefined keywords, provides interpretations, and saves the record to the database.
- **history.php**: Displays a list of the user's dream records, including keywords and timestamps.
- **db.php**: Shared database connection file used by all backend modules.
- **/page/login.php**: Handles user login. Verifies credentials and initializes session.



MODULES

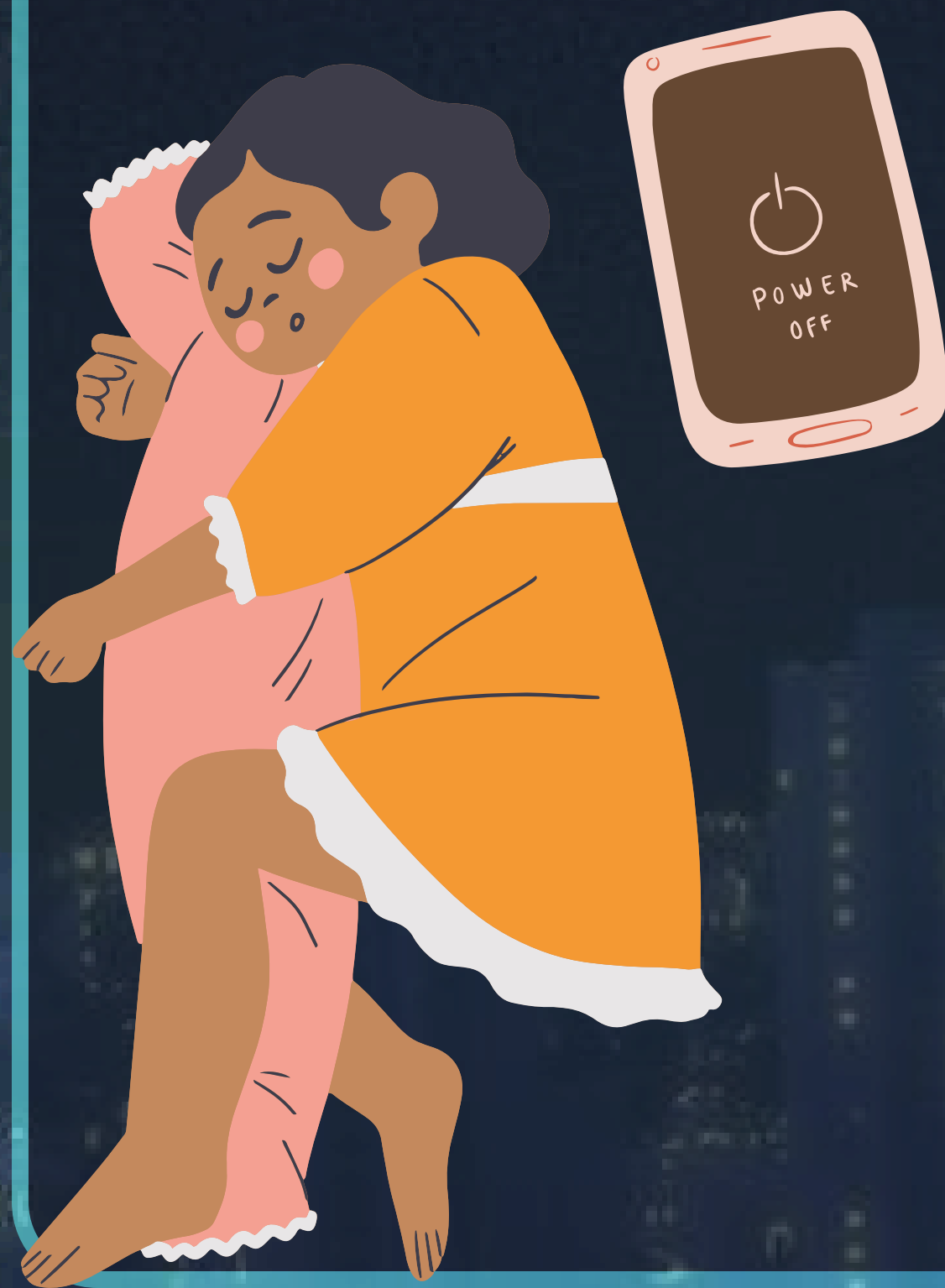
- **/page/register.php:** Handles user registration. Stores user data with hashed passwords.
- **/page/logout.php:** Logs out the current user and clears the session.
- **librarydb.sql:** SQL schema file for setting up the users and dreams tables.
- **style.css:** Contains static resources like CSS



SCHEMA DESIGN

A dedicated MariaDB user is created for this system:

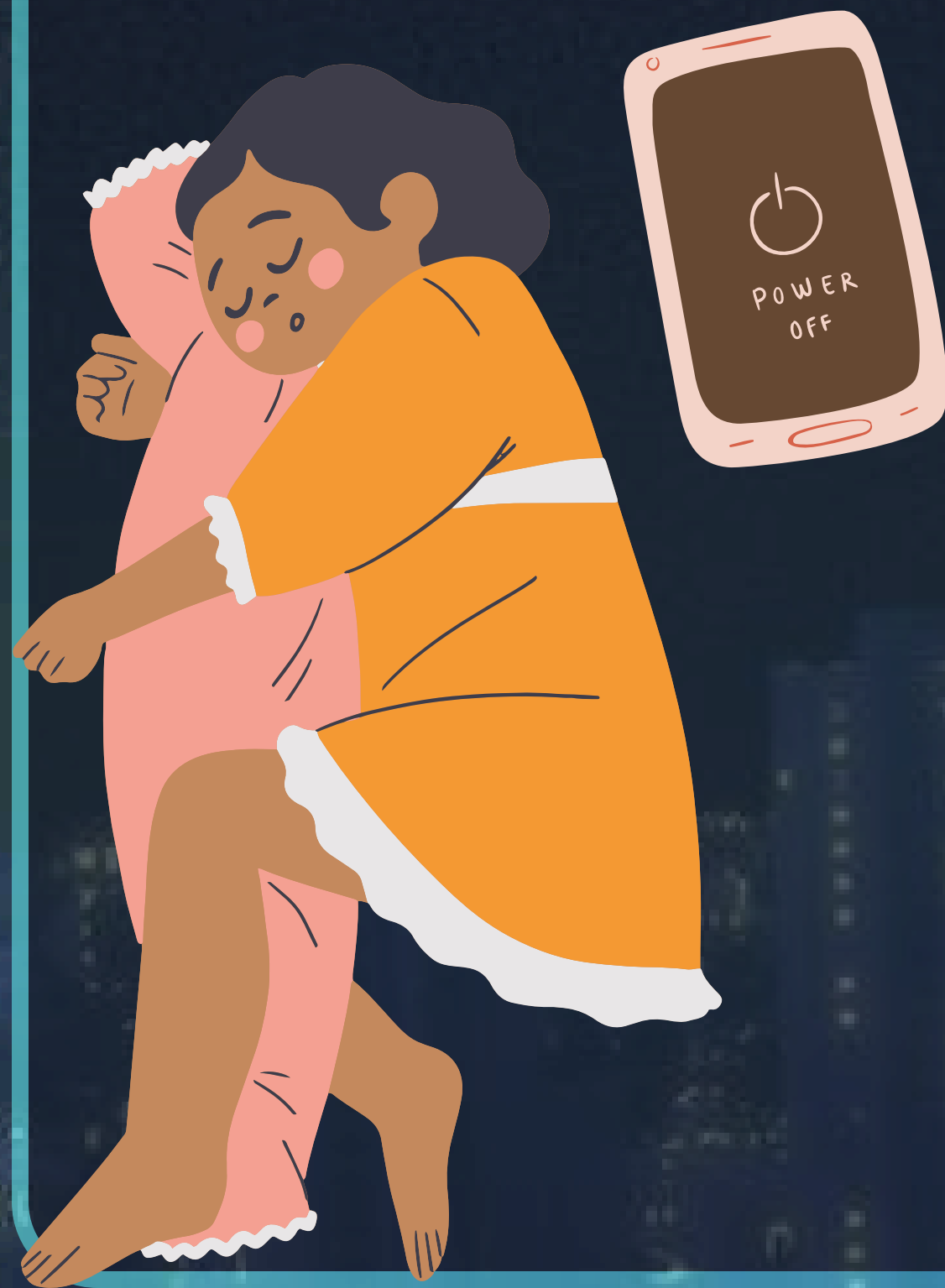
```
CREATE USER 'dream_analyzer'@'localhost'  
IDENTIFIED BY 'open';  
GRANT ALL PRIVILEGES ON dream_analyzer.*  
TO 'dream_analyzer'@'localhost';  
FLUSH PRIVILEGES;
```

SCHEMA DESIGN

Table: users
Stores registered user information.

Column	Type	Attributes	Description
id	INT	PRIMARY KEY, AUTO_INCREMENT	Unique user ID
username	VARCHAR(255)	UNIQUE, NOT NULL	Username for login
password	VARCHAR(255)	NOT NULL	Hashed password



SCHEMA DESIGN

Table: dreams
Stores submitted dream records along with extracted keywords.

Column	Type	Attributes	Description
id	INT	PRIMARY KEY, AUTO_INCREMENT	Unique dream record ID
user_id	INT	FOREIGN KEY REFERENCES users(id)	The user who submitted the dream
description	TEXT	NOT NULL	Full dream text as described by the user
keywords	TEXT	NULLABLE	Extracted keywords (comma-separated)
created_at	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP	When the dream was submitted



SCHEMA DESIGN

Relationship Diagram

users (1) —————< dreams (many)

- One user can submit many dreams.
- Each dream belongs to exactly one user.



THE CHALLENGES WE FACE AND HOW WE SOLVE IT

1. **Wi-Fi Connection Issues:** We prioritized a stable private network to fix connection issues.
2. **Port Configuration Issues:** We standardized port settings and updated API calls to resolve conflicts.
3. **Poor Database Layer Design:** We restructured the database for better data organization and access.

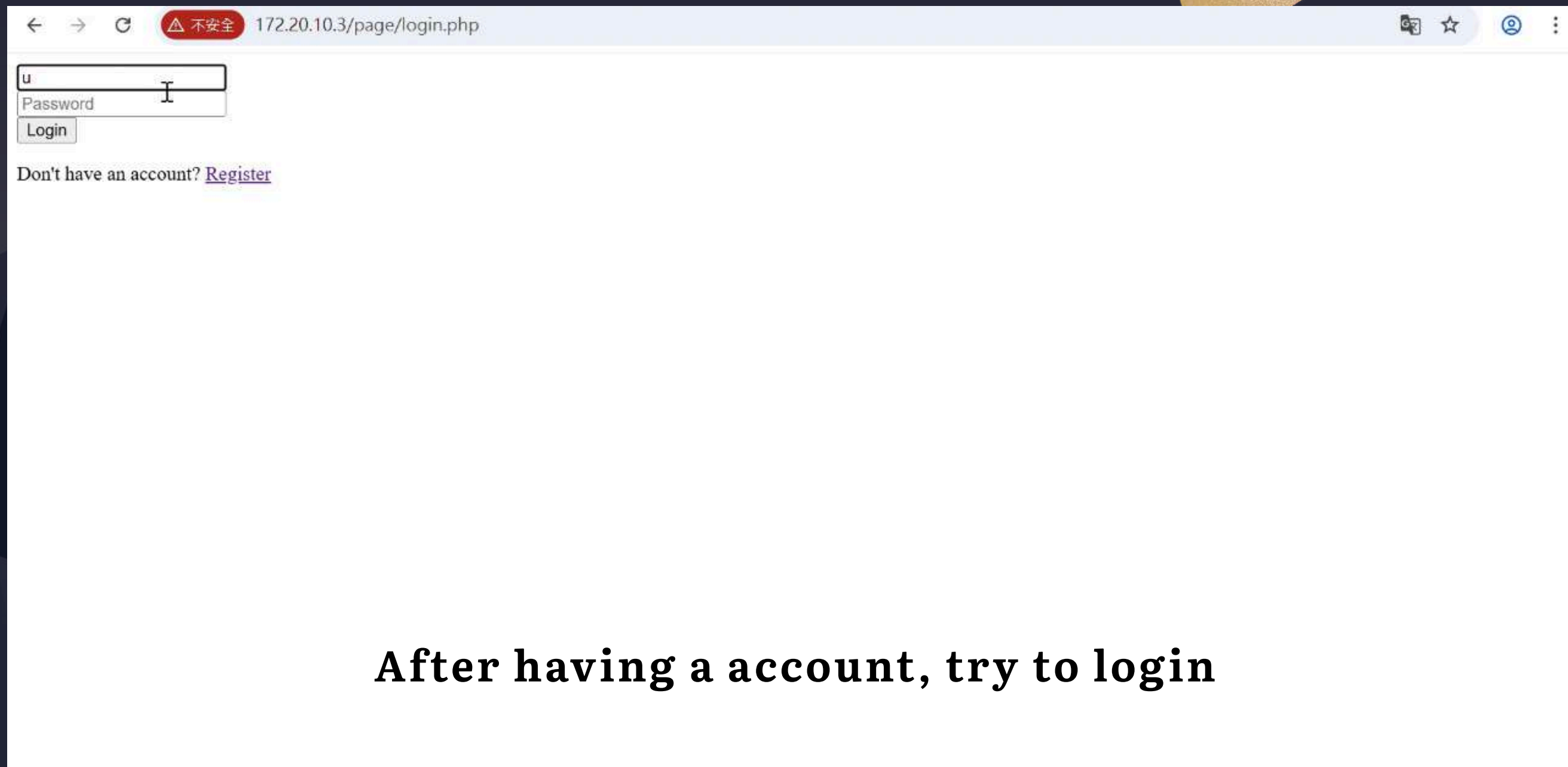


DEMONSTRATE THE USE

I

Already have an account? [Login](#)

After Enter the website, try to register for the first time



← → ↻ ⚠ 不安全 172.20.10.3/page/login.php

u
Password
Login

Don't have an account? [Register](#)

After having a account, try to login

Dream Analyzer

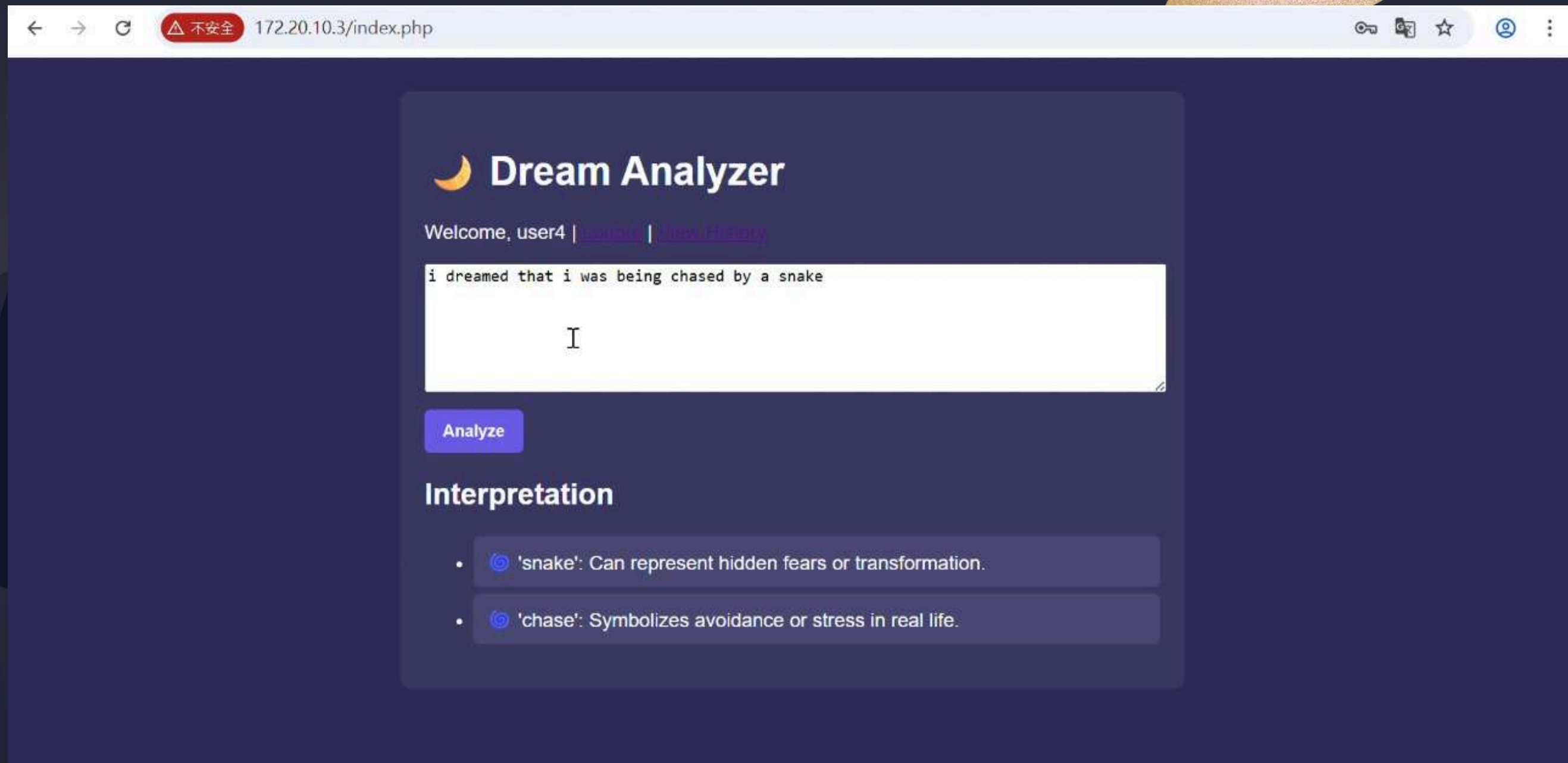
Welcome, user4 | [login](#) | [logout](#)

i dreamed that i was being chased by a snake

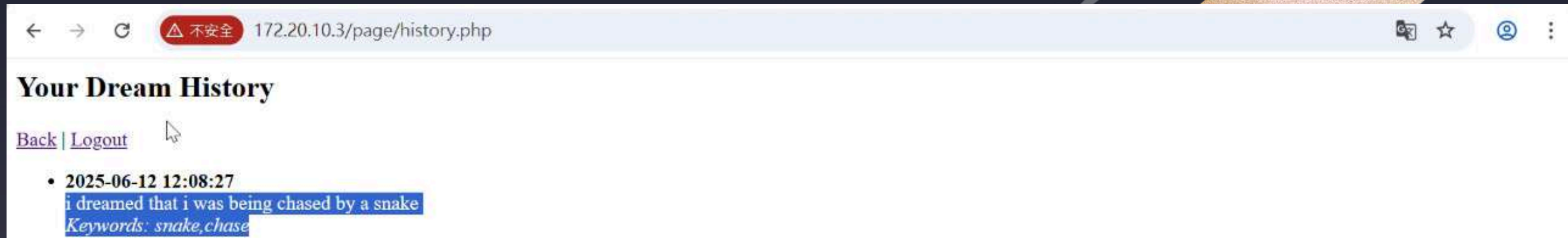
Analyze

Interpretation

Type the description of your dream



Click the “Analyze” , then the Interpretation of your dream will appear



Click the “View history” , filter dreams by date, time, dream content, keyword or emotion, click logout after you finished



URL

- The URL to our demonstration video:
<https://youtu.be/wqZi07sNg8Y?feature=shared>
- The URL to our repository:
https://github.com/chiiija/project-dream_analyzer.git





THANK YOU