

HUMAN STRESS DETECTION

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Introduction to Stress Detection

In this presentation, we will explore **human stress detection** website that accepts the data from the user and shows the result.

The focus will be on understanding various **tools, techniques, and technologies** employed to measure and analyze stress levels in individuals. This overview aims to provide insights into their **functionality and impact**.



Understanding Human

Stress:

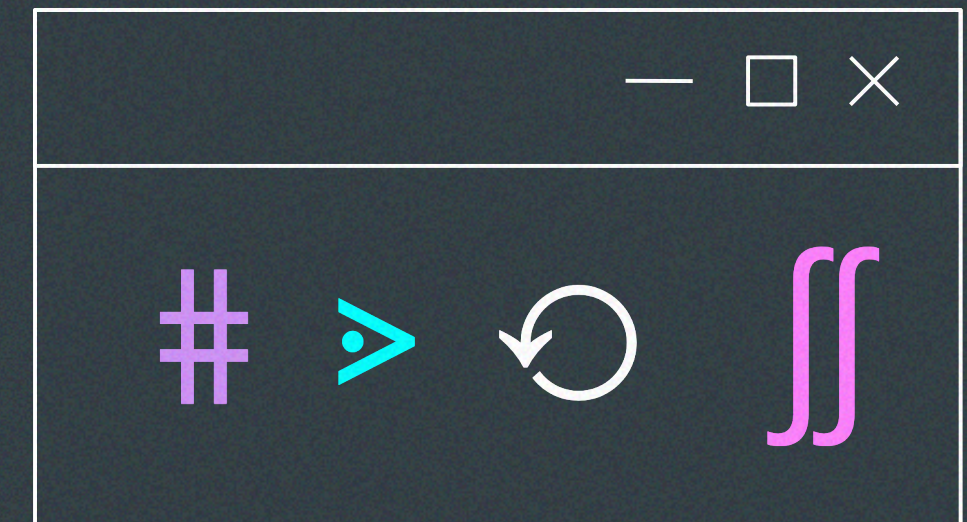
Human stress is a complex response involving **psychological** and **physiological** factors. Stress detection pages aim to identify symptoms through various indicators such as **heart rate**, **behavioral patterns**, and **self-reported measures**. Understanding these factors is crucial for effective stress management.

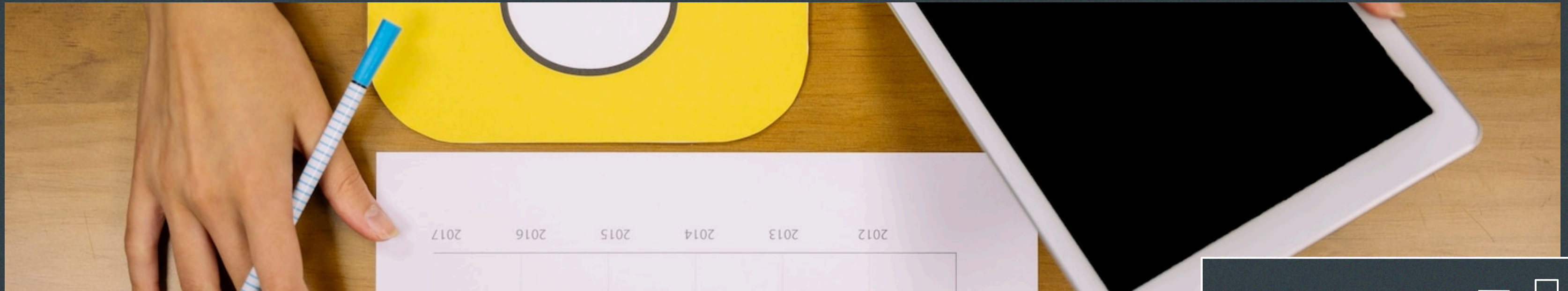


Types of Stress Detection Tools

Here we will be analyzing the following set of data to find out if the user is stressed or not:

- Snoring Rate
- Respiratory rate
- Body Temperature
- Limb Movement
- Blood Oxygen
- Eye Movement
- Sleep Hours
- Heart Rate
- Stress Level





User Experience and Interface Design

A well-designed user interface is critical for the effectiveness of stress detection pages. **User experience (UX)** should prioritize **accessibility**, **clarity**, and **engagement**. This ensures that users can easily navigate and understand their stress levels and the recommendations provided.



i 127.0.0.1:8000



Welcome to Stress Prediction

[Sign Up](#)

[Login](#)

Login

Username:

Password:

Login

[Forgot your password?](#)

Sign Up

Username:

Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Password:

Email address:

Sign Up

Already have an account? [Log in here.](#)

Sign Up

Username:

Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Password:

Email address:

Sign Up

Already have an account? [Log in here.](#)

Sign Up

- Enter a valid username. This value may contain only letters, numbers, and @/./+/_ characters.

Username:

Meera Iswar

Required. 150 characters or fewer. Letters, digits and @/./+/_ only.

Password:

Email address:

meeraiswar@gmail.com

Sign Up

Already have an account? [Log in here.](#)

Sign Up

- A user with that username already exists.

Username:

Meera

Required. 150 characters or fewer. Letters, digits and @/./+/_ only.

Password:

Email address:

meeraiswar@gmail.com

Sign Up

Already have an account? [Log in here.](#)

← ↻ ⓘ 127.0.0.1:5501/webpage/data.html ☆ ☆≡ ... 🌈

Enter Your Data

Snoring Rate (times/hour)	Respiratory Rate (breaths/min)
<input type="text"/>	<input type="text"/>
Body Temperature (°C)	Limb Movement (movements/hour)
<input type="text"/>	<input type="text"/>
Blood Oxygen (%)	Eye Movement (times/hour)
<input type="text"/>	<input type="text"/>
Sleep Hours	Heart Rate (bpm)
<input type="text"/>	<input type="text"/>
Stress Level (1-10)	
<input type="text"/>	
<input type="submit" value="Submit Data"/>	

Stress Detection Result

You are Not Stressed.

Enter New Data

Stress Detection Result

You are Stressed!

Enter New Data

DATA BASE:

The website utilizes a MySQL database, specifically the "stress_db" database. Data is organized into various tables, allowing for efficient storage and retrieval. Each table is designed to manage specific data types, facilitating streamlined operations and enhancing overall performance.

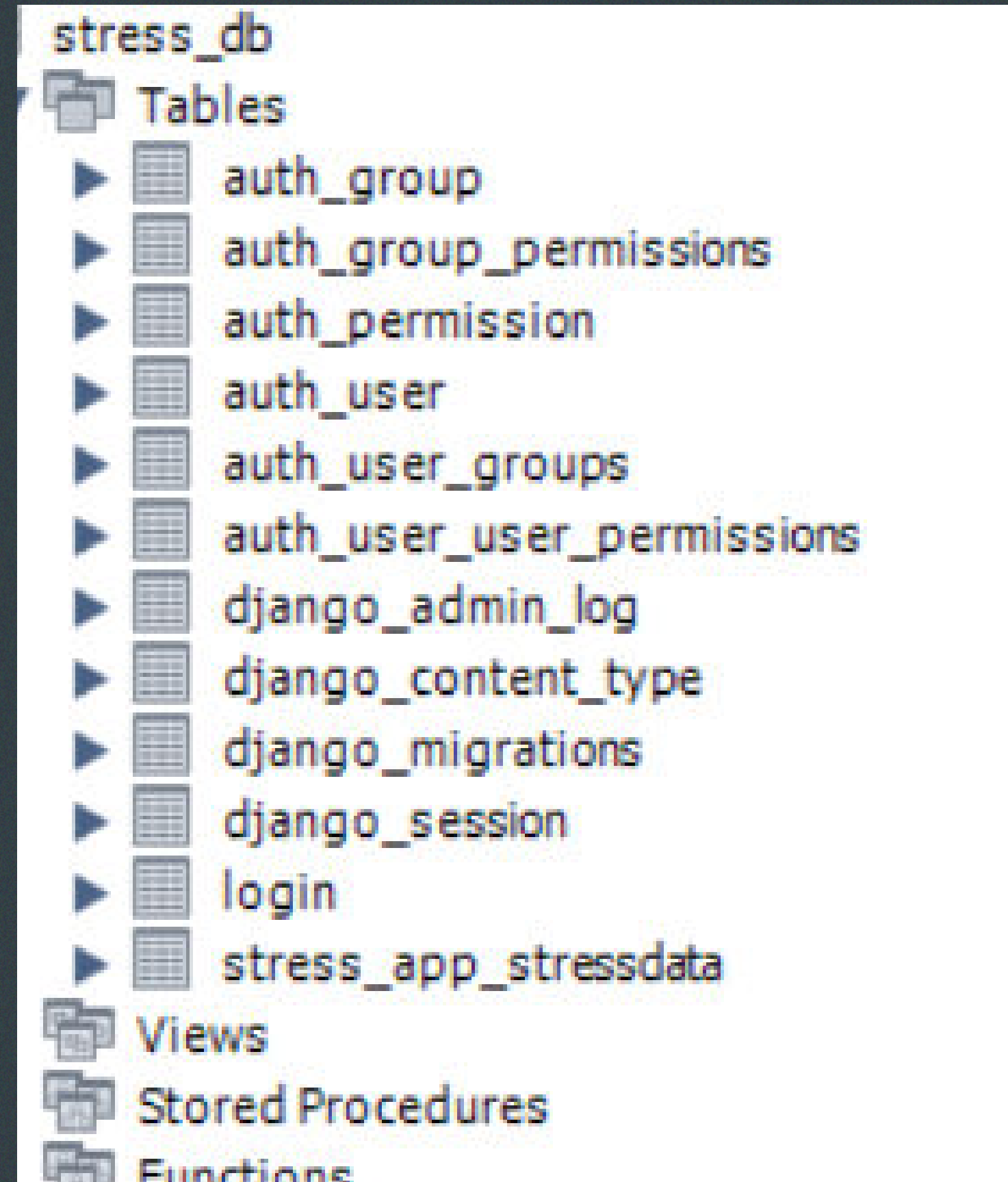


Table containing login details:

	id	password	last_login	is_superuser	username	first_name	last_name	email	is
▶	1	pbkdf2_sha256\$870000\$9JZiNrhOnim4RPzmpy...	2024-11-19 09:41:40.947752	1	Meera			meeraaiswar@gmail.com	1
	2	pbkdf2_sha256\$870000\$MX5grIXfob1vxqpbFW...	2024-11-22 13:40:58.609215	0	Grace			grace@gmail.com	0
	3	pbkdf2_sha256\$870000\$WK28Kv5mHK4cb4gW...	NULL	0	John			abc@gmail.com	0
	4	pbkdf2_sha256\$870000\$nuOyg48WZZ9Ilbz3rn...	2024-11-20 11:50:12.276159	0	Mia			mia@gmail.com	0
	5	pbkdf2_sha256\$870000\$Xmy65M787PBmtsdRU...	2024-11-20 13:21:44.218673	0	Rachel			rachel@gmail.com	0
	6	pbkdf2_sha256\$870000\$sawLhZLfoJmPn2IPdCN...	2024-11-22 15:49:01.073381	0	Meera123			meeraaiswar@gmail.com	0

Table containing parameters:

[illegible]

OperationalError at /

no such table: lists_item

Request Method: GET

Request URL: http://localhost:8000/

Django Version: 1.6

Exception Type: OperationalError

Exception Value: no such table: lists_item

Exception Location: /usr/local/lib/python3.3/dist-packages/django/db/backends/sqlite3/base.py in execute

Python Executable: /usr/bin/python3

Python Version: 3.3.2

Python Path: ['/tmp/tmpdss633/superlists',
'/usr/local/lib/python3.3/dist-packages/mock-1.0.1-py3.3.egg',
'/usr/lib/python3.3',
'/usr/lib/python3.3/plat-x86_64-linux-gnu',
'/usr/lib/python3.3/lib-dynload',
'/home/harry/.local/lib/python3.3/site-packages',
'/usr/local/lib/python3.3/dist-packages',
'/usr/lib/python3/dist-packages']

Server time: Wed, 13 Nov 2013 13:13:13 +0000

Error during template rendering

— □ ×

```
(1146, "Table 'django_quic.django_session' doesn't exist")
```

Server time: Mon, 18 Dec 2023 15:45:42 +0000

100

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Page not found (404)

Request Method: GET

Request URL: http://127.0.0.1:8001/

Using the URLconf defined in `banax_platform.urls`, Django tried these URL patterns, in this order:

1. `^ ^users/`
2. `^ ^organizations/`
3. `^ ^auth/`
4. `^ ^groups/`
5. `^ ^common/`
6. `^ ^products/`
7. `^ ^placements/`
8. `^ ^activities/`
9. `^ ^chat/`
10. `^administrations/`
11. `^oauth/`
12. `^ ^oauth/jwt/(?P<provider>[^/]+)/$` `[name='login_social_jwt_user']`
13. `^auth/`
14. `^docs/`

The empty path didn't match any of these.

You're seeing this error because you have `DEBUG = True` in your Django settings file. Change that to `False`, and Django will display a standard 404 page.

Conclusion and Future Directions

In the future, stress detection website may utilize advanced AI algorithms, biometric data, and real-time analytics to provide personalized stress management solutions. Features could include virtual therapy sessions, community support forums, and integration with wearable devices to monitor stress levels and suggest coping strategies effectively.





Thanks!

