**Password Strength Checker Documentation**

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**Introduction**

The Password Strength Checker is a web-based application designed to help users evaluate the strength of their passwords. It analyzes various factors such as length, complexity, and uniqueness of passwords, providing feedback and suggestions to enhance security. The interface is designed to be user-friendly and visually appealing with animations.

**Features**

* **Real-time Password Strength Evaluation**: Analyzes password length, complexity (use of uppercase letters, lowercase letters, digits, and special characters), and uniqueness.
* **User-Friendly Feedback**: Offers clear and actionable suggestions to improve password strength.
* **Animated Interface**: Provides a visually engaging user experience with smooth animations.

**Technology Stack**

* **HTML**: Provides the structure for the web page.
* **CSS**: Used for styling and animations.
* **JavaScript**: Handles the password strength evaluation and dynamic content updates.

**Setup and Installation**

**Prerequisites**

To run this project locally, you need:

* A web browser (e.g., Chrome, Firefox, Safari).

**Installation Steps**

1. **Clone the repository**:

bash

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git clone https://github.com/your-username/password-strength-checker.git

1. **Navigate to the project directory**:

bash

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cd password-strength-checker

1. **Open index.html in your web browser** to view and interact with the application.

**Usage**

1. **Open index.html** in your preferred web browser.
2. **Enter a password** in the input field.
3. **Click the "Check Strength" button** to see the password strength evaluation and suggestions.

**Project Structure**

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password-strength-checker/

├── index.html # HTML file providing the structure of the webpage

├── styles.css # CSS file for styling and animations

├── scripts.js # JavaScript file for password strength logic and dynamic content

└── README.md # Documentation file

**Password Strength Evaluation Criteria**

The password strength is evaluated based on the following criteria:

1. **Length**: Password should be at least 12 characters long.
2. **Lowercase Letters**: Password should contain at least one lowercase letter.
3. **Uppercase Letters**: Password should contain at least one uppercase letter.
4. **Digits**: Password should contain at least one digit.
5. **Special Characters**: Password should contain at least one special character (e.g., !@#$%^&\*()).
6. **Uniqueness**: Password should not have three consecutive identical characters.

**Feedback**

* **Very Strong**: Meets all criteria.
* **Strong**: Meets most criteria.
* **Moderate**: Meets some criteria.
* **Weak**: Meets few criteria.

**Customization**

**HTML (index.html)**

Modify the structure as needed. Add new elements or adjust the existing ones for a customized layout.

**CSS (styles.css)**

Update styles to change the appearance, add new animations, or tweak existing ones to better match your preferences.

**JavaScript (scripts.js)**

Enhance or modify the password evaluation logic, add new criteria, or adjust the feedback messages.

**Contributing**

Contributions are welcome! If you have suggestions for improvements or want to report a bug, please open an issue or submit a pull request.

**Steps to Contribute**

1. **Fork the repository**.
2. **Create a new branch**:

bash

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git checkout -b feature-branch

1. **Make your changes and commit them**:

bash

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git commit -m 'Add some feature'

1. **Push to the branch**:

bash

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git push origin feature-branch

1. **Open a pull request**.

**License**

This project is licensed under the MIT License. See the LICENSE file for more details.

**Acknowledgments**

* Inspired by various password strength checker tools available online.
* Special thanks to all contributors and the open-source community.

**DEMO:**

**https://www.linkedin.com/posts/kalaiyarasan-g-63b452271\_technotrench-webdevelopment-passwordstrengthchecker-activity-7208160132860452864-sdJA?utm\_source=share&utm\_medium=member\_desktop**