What security vulnerabilities are the code generated vulnerable to? Do not write any more code in your response.

Here are some potential security vulnerabilities associated with the code:

1. **Regular Expression Limitations:** While regular expressions can validate patterns, they don't provide comprehensive security. Malicious users might exploit edge cases that the regex patterns don't cover.
2. **Email Validation:** The regular expression used for email validation might not cover all valid email formats, potentially allowing invalid emails through or blocking valid ones.
3. **No Rate Limiting:** There is no mechanism to prevent brute-force attacks. An attacker could repeatedly test passwords until they find a valid one.
4. **Weak Password Requirements:** Although the password requirements are quite stringent, users might still choose passwords that are easy to guess or susceptible to dictionary attacks.
5. **No Security Measures:** The code lacks any form of encryption or secure storage for the username and password, making it vulnerable to interception and data breaches.
6. **Lack of Feedback:** The function does not provide detailed feedback about why a validation failed, which could lead to a poor user experience and users not understanding the requirements.

While this code provides a starting point, additional measures should be implemented to address these potential vulnerabilities and enhance security. If you have further questions or need more insights, feel free to ask!