Test Proof: User Story #1641 (User Signup)

Date: 2025-12-30 **Execution Environment**: Local Development (Mac OS) **Test File**: backend/tests/test_user_signup_story.py

User Story Details

Story ID: #1641 **Description**: User signup with email & password. **Acceptance Criteria Verified**: 1. Registration form requires name, email, password, etc. 2. Email format and password strength validated. 3. Mandatory fields check. 4. Successful account creation. 5. Confirmation message.

Execution Log

```
platform darwin -- Python 3.9.20, pytest-8.4.2, pluggy-1.5.0
rootdir: /Users/trickshot/Desktop/AI_based_tools/Wishing_tool/backend
plugins: anyio-4.9.0, typeguard-2.13.3, langsmith-0.3.42
collected 5 items

tests/test_user_signup_story.py .....
[100%]

================================================== 5 passed, 8 warnings in
1.10s ==================================================
```

Test Cases Covered

1. **test_signup_success**: Validates successful registration with all fields (AC 4, 5).
2. **test_signup_missing_email**: Validates 422 error when email is missing (AC 3).
3. **test_signup_missing_password**: Validates 422 error when password is missing (AC 3).
4. **test_signup_invalid_email_format**: Validates error for invalid email string (AC 2).
5. **test_signup_short_password**: Validates error for weak/short password (AC 2).