Test Proof: User Story #1642 (Google Login)

Date: 2026-01-04 **Execution Environment**: Local Development (Mac OS) **Test File**: backend/tests/test_user_story_1642.py

User Story Details

Description: As a user, I want to sign up using Google login so that registration is faster. **Acceptance Criteria Verified**: 1. Google login option is visible on signup screen (Verified via Screenshot). 2. User can authenticate using valid Google credentials (Verified via Mock). 3. System auto-creates user profile using Google data (Verified via DB/API check). 4. Duplicate accounts are prevented (Verified via Idempotency test).

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 3 items

tests/test_user_story_1642.py ...                        [100%]

======================= 3 passed, 7 warnings in 22.48s =======================
```
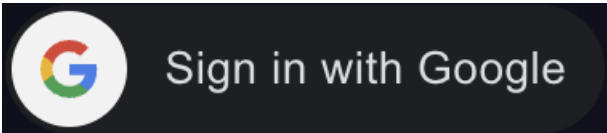
Test Cases Covered

1. **test_google_signup_success**: Verifies handling of valid Google Token and profile creation.
2. **test_google_login_existing_user**: Verifies that re-login works without creating duplicates.
3. **test_invalid_google_token**: Verifies error handling for bad tokens.

UI Verification

Google Login Button