1. TestCaseId

TC\_RA\_003

2. Test Summary

Verify reviewer assignment avoids department conflicts when possible

3. Description

This test verifies the Reviewer Assignment Algorithm avoids assigning a reviewer from the same department as the project when alternatives are available.

4. Prerequisite/Pre-condition

- Projects.csv and Users.csv must exist with valid data  
- Project P001 is in department 'IT'  
- Reviewers U001 (IT), U002 (HR), and U003 (Finance) exist

5. Test Steps

1. Mock Projects.csv with project P001 (Department: IT)  
2. Mock Users.csv with U001 (IT), U002 (HR), U003 (Finance)  
3. Call assign\_all\_reviewers()  
4. Capture the assigned reviewer  
5. Check reviewer is not from 'IT'

6. Test Data

- Project: P001, Department: IT  
- Reviewers: U001 (IT), U002 (HR), U003 (Finance)

7. Expected Result

- A reviewer is assigned from HR or Finance  
- Reviewer\_ID is either U002 or U003

8. Actual Result

- Reviewer\_ID: U002  
- Department: HR

9. Test Result

Pass

10. Automation Status

Automated (test\_reviewer\_assignment.py)

11. Date

2025-05-12

12. Executed By

Cynthia McGinnis