# Test Case: Reviewer Assignment Logic – Department Conflict Avoidance

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| Field | Value |
| 1. TestCaseId | TC\_RA\_003 |
| 2. Test Summary | Ensure the Reviewer Assignment Algorithm assigns reviewers from departments outside the project’s originating department when eligible alternatives exist, promoting objectivity and reducing potential bias in the review process. |
| 3. Description | This test evaluates the logic responsible for reviewer assignment, specifically verifying that when multiple qualified reviewers are available, the system avoids selecting a reviewer from the same department as the project under review. This supports requirement R4 by enforcing departmental independence in oversight and ensuring cross-functional accountability. |
| 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  (base) cynthiamcginnis@Cynthias-Mac-mini ~ % cd ~/Documents/ProjectReviewScheduler  python3 test\_reviewer\_assignment.py  .  ----------------------------------------------------------------------  Ran 1 test in 0.001s  OK |
| 10. Automation Status | Automated (test\_reviewer\_assignment.py) |
| 11. Date | 2025-05-12 |
| 12. Executed By | Cynthia McGinnis |