# Test Case: Due Date Calculation – 6-Month Frequency

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| Field | Value |
| 1. TestCaseId | TC\_DR\_001 |
| 2. Test Summary | Verify that the system correctly calculates the next review date for a project with a 6-month review frequency and categorizes it appropriately as 'Due Soon'. |
| 3. Description | This test ensures that the review scheduling logic calculates the next review date as 6 months after the last review, and labels the project as 'Due Soon' when the next review is within 30 days of the current date. |
| 4. Prerequisite/Pre-condition | - Projects.csv contains valid data. - Project P001 has a last review date of 2025-01-01 and a review frequency of 0.5 years. |
| 5. Test Steps | 1. Set the system date to 2025-05-01 2. Run `calculate\_all\_reviews()` with Project P001 3. Retrieve updated project data 4. Validate calculated `Next\_Review\_Date` 5. Validate `Status` is correctly set to 'Due Soon' |
| 6. Test Data | - Project\_ID: P001 - Last\_Review\_Date: 2025-01-01 - Review\_Frequency\_Years: 0.5 - Current Date: 2025-05-01 |
| 7. Expected Result | - Next\_Review\_Date = 2025-07-01 - Status = 'Due Soon' |
| 8. Actual Result | - Next\_Review\_Date = 2025-07-01 - Status = 'Due Soon' |
| 9. Test Result | Pass |
| 10. Automation Status | Automated (test\_due\_date\_calculator.py) |
| 11. Date | 2025-05-12 |
| 12. Executed By | Cynthia McGinnis |

## Revision History

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| --- | --- | --- |
| Date | Author | Description |
| 2025-05-12 | Cynthia McGinnis | Initial test case created for due date calculation. |
| 2025-05-13 | Cynthia McGinnis | Fixed incorrect date logic by replacing timedelta with relativedelta to ensure exact calendar intervals. |