|  |  |  |
| --- | --- | --- |
| **Use Case Name:** | **Generate Delayed Report** | |
| **Scenario:** | **System Automatically or Manually Generates Delayed Report** | |
| **Triggering Event:** | 1. **Timer (e.g., daily at midnight).** | 2. **Requests report generation** | |
| **Brief Description:** | **The system fetches delayed orders, user data, and sales metrics, compiles them into a structured report (PDF, Word, etc.), stores it, and allows the admin to view/download it.** | |
| **Actors:** | **Admin (manual trigger** | |
| **Stakeholders:** | **Admin, Management Team** | |
| **Preconditions:** | * **System is connected to the database** * **Orders exist in the system (optional for empty reports)** * **Admin is authenticated (for manual triggers).** | |
| **Post conditions:** | * **Report is generated, formatted, and stored.** * **Admin can access the report via the admin panel** * **Notification sent to admin (optional).** | |
| **Flow of Activities:** | **Admin** | **System** |
| **1. Manually clicks "Generate Report.".**  **2. View/download report from admin panel** | **1.1 Fetch Data**  **1.2** **Generate Report**  **1.3 format report**  **1.4 Store Report** |
| **Exception Conditions:** | * 1. **No delayed orders found → Generate empty report or skip.**   2. **Database connection fails → Retry 3 times, then log error.**   3. **Formatting fails (e.g., PDF lib error) → Fallback to CSV.**   **1.4 Storage full → Alert admin and abort.** | |