**SPM Task 06**

**Project Title: Kasheer Shawls – E-commerce Platform**

**Group Members’ Names & Roll Numbers:**

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**1. Gantt Chart**

**Project Tasks & Dependencies:**

| **Task No.** | **Task Name** | **Start Day** | **Duration** | **Dependency** |
| --- | --- | --- | --- | --- |
| 1 | Requirements Gathering | Day 1 | 5 days | – |
| 2 | UI/UX Design | Day 6 | 4 days | Task 1 |
| 3 | Backend Development | Day 10 | 7 days | Task 2 |
| 4 | Frontend Development | Day 10 | 6 days | Task 2 |
| 5 | Payment Integration | Day 16 | 3 days | Task 3 |
| 6 | Testing | Day 19 | 4 days | Tasks 3, 4, 5 |
| 7 | Deployment | Day 23 | 2 days | Task 6 |
| 8 | Final Presentation | Day 25 | 2 days | Task 7 |

**2. PERT Chart**

**Time Estimates (in days):**

1. Requirements (T1): 5
2. UI/UX Design (T2): 4
3. Backend Dev (T3): 7
4. Frontend Dev (T4): 6
5. Payment Integration (T5): 3
6. Testing (T6): 4
7. Deployment (T7): 2
8. Final Presentation (T8): 2

**PERT Chart Flow:**

T1 → T2 → T3 → T5 → T6 → T7 → T8

↘

T4

**3. Critical Path Identification**

We calculate the path durations:

1. **Path 1 (Critical Path):**  
   T1 (5) → T2 (4) → T3 (7) → T5 (3) → T6 (4) → T7 (2) → T8 (2)  
   = **27 days**
2. **Path 2:**  
   T1 (5) → T2 (4) → T4 (6) → T6 (4) → T7 (2) → T8 (2)  
   = **23 days**

✅ **Critical Path = Path 1** (longest duration = 27 days)

**✅ Deliverable Checklist**

1. Gantt Chart with 8 tasks & dependencies ✔
2. PERT Chart with arrows and durations ✔
3. Critical Path clearly identified and highlighted ✔