

Praktikum: Pembuatan Gantt Chart Berbasis SCRUM

Deskripsi Umum

Mahasiswa diminta membuat Gantt Chart lengkap berdasarkan metode Scrum untuk proyek Pembangunan Sistem Peminjaman Ruangan Kampus. Gantt Chart harus memuat fase proyek, sprint, durasi, tanggal, role Scrum, serta dependencies antar tugas.

Output yang Harus Dikumpulkan

- Product Backlog
- Sprint Backlog
- Gantt Chart lengkap 4 minggu
- Assignment role Scrum (PO, SM, Dev, QA)
- Screenshot tampilan Gantt Chart Notion

Timeline Proyek

Proyek berjalan selama 4 minggu:

- Sprint 1: 18–24 November 2024 (Analisis & Desain)
- Sprint 2: 25 Nov – 8 Desember 2024 (Implementasi)
- Sprint 3: 9–15 Desember 2024 (Testing, Bug Fix, Deploy)

Struktur Scrum dan Tanggung Jawab

- Product Owner (PO): SRS, Backlog, Review
- Scrum Master (SM): Sprint planning, Monitoring
- Frontend Developer: UI (Login, Form, Dashboard)
- Backend Developer: Login backend, CRUD, Approval
- Database Engineer: ERD, Normalisasi, Query, Integrasi
- QA Tester: Test case, Functional testing, Bug fix

1. Struktur Proyek Secara Umum

Proyek berjalan selama **4 minggu**, dibagi menjadi **3 Sprint** berdasarkan SCRUM.

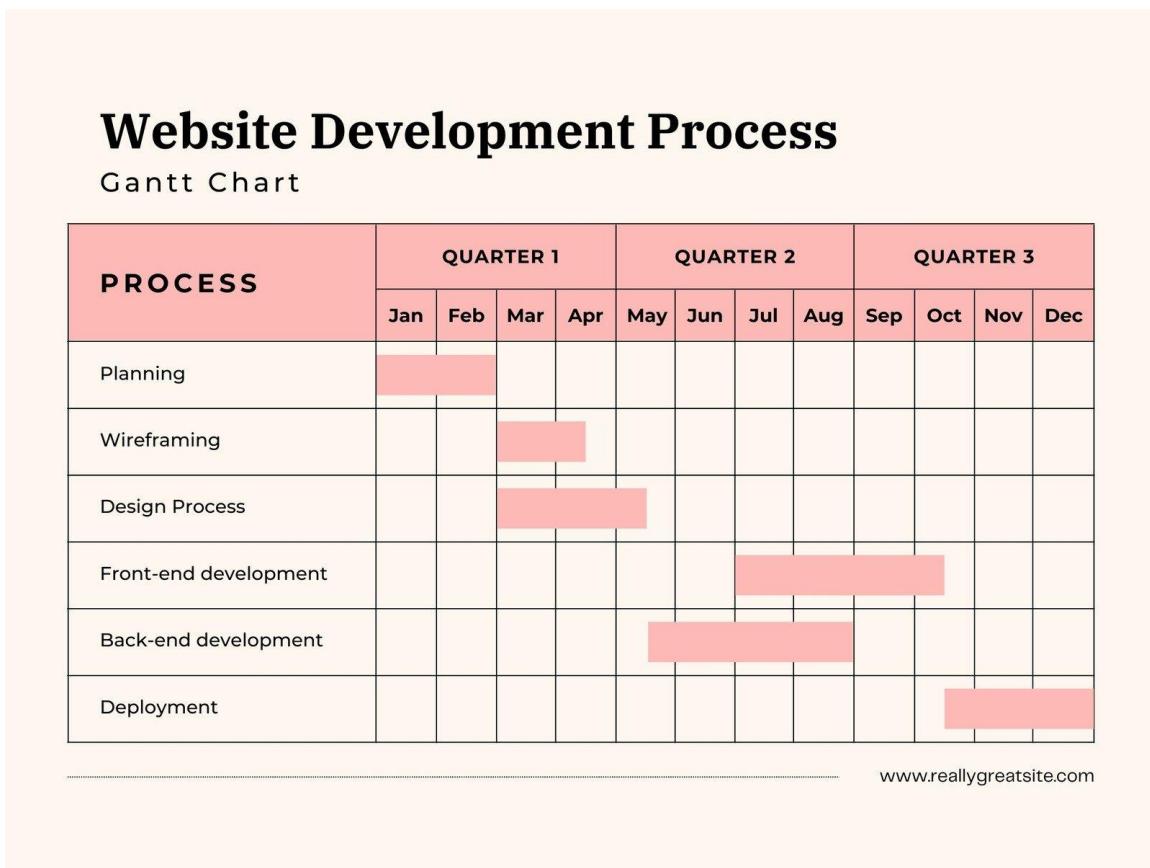
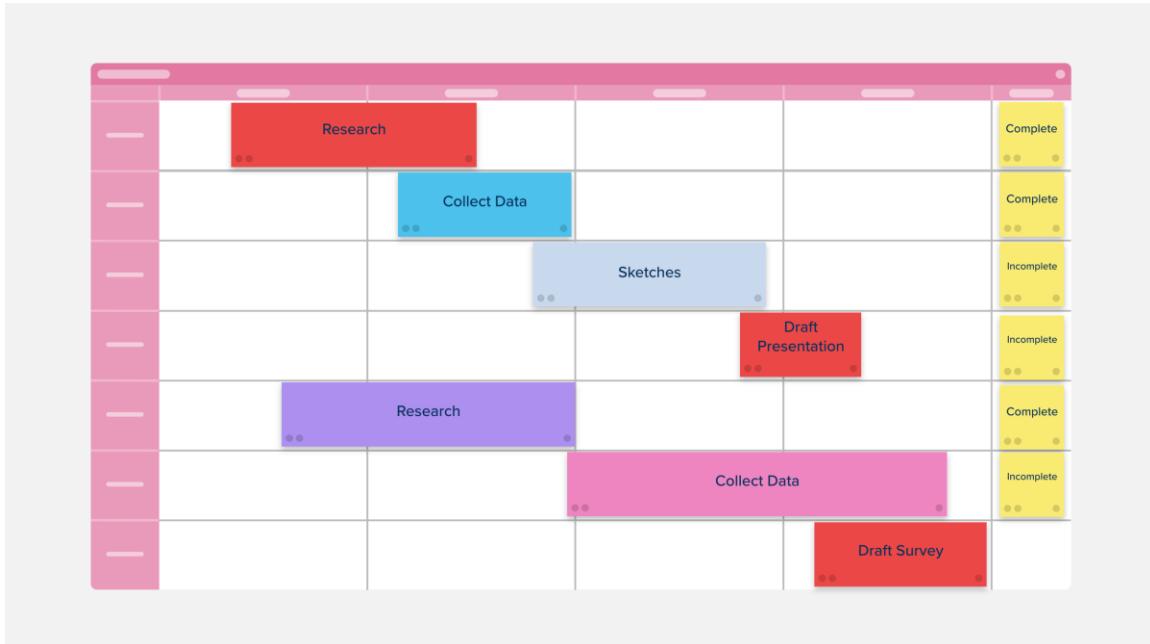
✓ SCRUM Roles

- **Product Owner (PO)** → kebutuhan, backlog, prioritas
- **Scrum Master (SM)** → timeline, sprint, daily
- **Dev Team:**
 - Frontend Dev
 - Backend Dev
 - Database Engineer
 - QA / Tester

✓ Output Besar (Deliverables)

- Sprint 1 → SRS + Desain
- Sprint 2 → Implementasi
- Sprint 3 → Testing + Deploy + Laporan

2. Timeline 4 Minggu (High-Level)



Minggu	Sprint	Kegiatan Utama
18-24 Nov	Sprint 1	Analisis + Desain
25-1 Des	Sprint 2	Implementasi Modul 1
2-8 Des	Sprint 2	Implementasi Modul 2 + Integrasi
9-15 Des	Sprint 3	Testing + Bug Fix + Deploy

3. Fase Proyek (Waterfall yang Dipetakan ke SCRUM)

FASE 1 – ANALISIS (Sprint 1)

- Kumpulkan kebutuhan
- Observasi proses
- Tulis SRS
- Review SRS

Output: Dokumen SRS

Durasi: 18-26 Nov

Dependency: –

FASE 2 – DESAIN (Sprint 1)

- Use Case Diagram
- ERD & Normalisasi
- Desain Tabel
- Wireframe UI

Output: Desain Sistem Final

Durasi: 27 Nov – 4 Des

Dependency: SRS selesai

FASE 3 – IMPLEMENTASI (Sprint 2)

- Setup Project
- Modul Login
- Form Peminjaman

- Dashboard Admin
- Integrasi Database

Output: Beta Version

Durasi: 5–14 Des

Dependency: Desain selesai

FASE 4 – TESTING (Sprint 3)

- Test Case
- Functional testing
- Bug fixing

Output: Final Release

Durasi: 15–20 Des

Dependency: Beta Release

FASE 5 – DEPLOYMENT & DOKUMENTASI (Sprint 3)

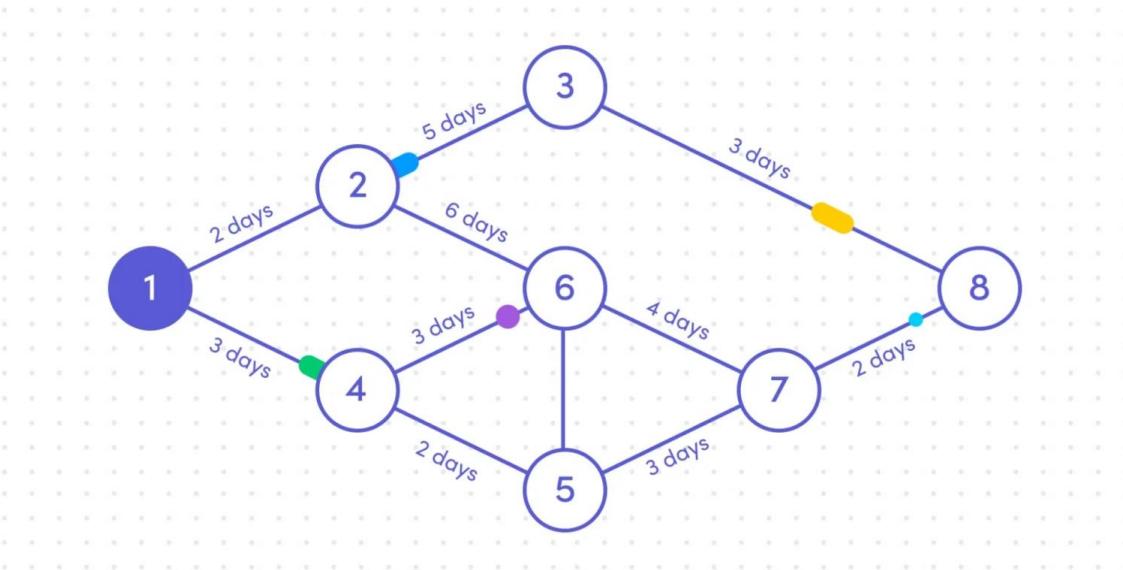
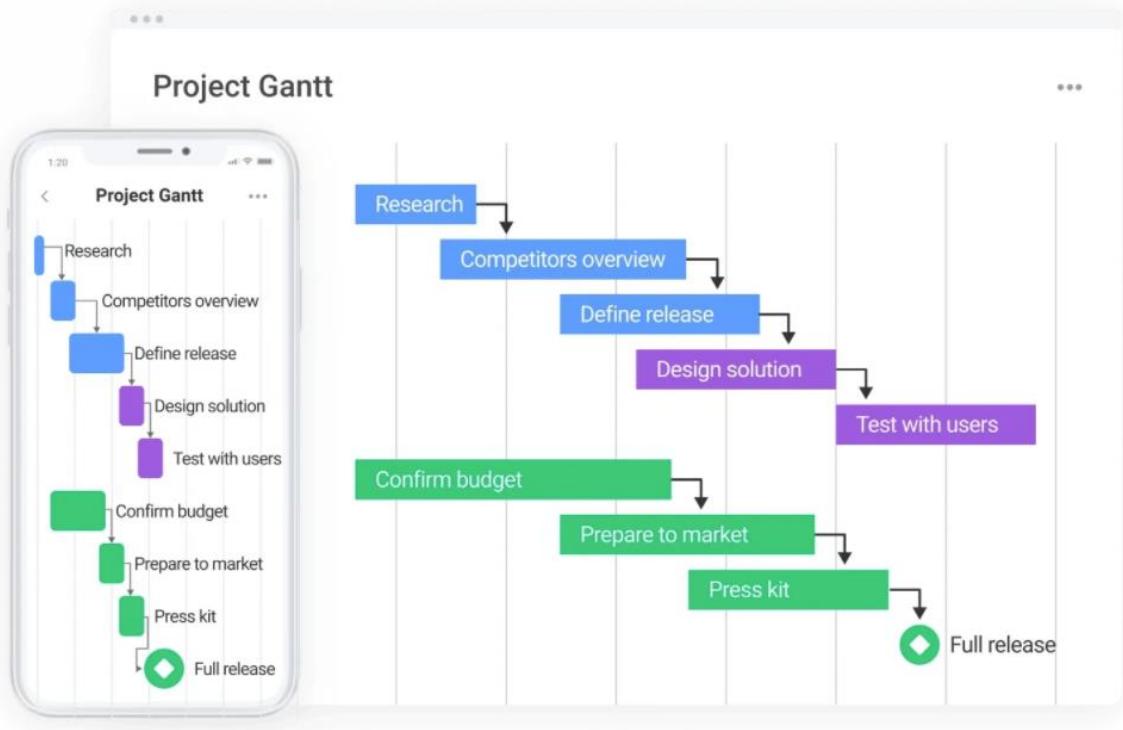
- Deploy ke server
- Dokumentasi User
- Laporan akhir

Output: Project Final

Durasi: 21–27 Des

Dependency: Testing selesai

4. Gambaran Dependencies



Kebutuhan → SRS → Use Case → ERD → Database Design



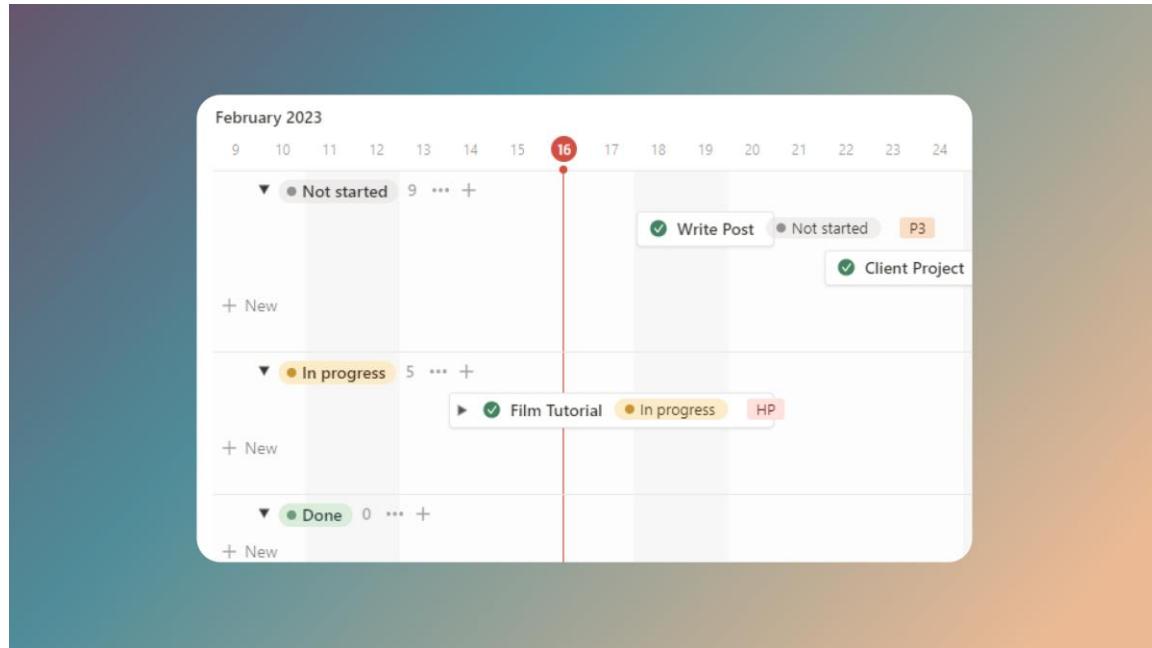
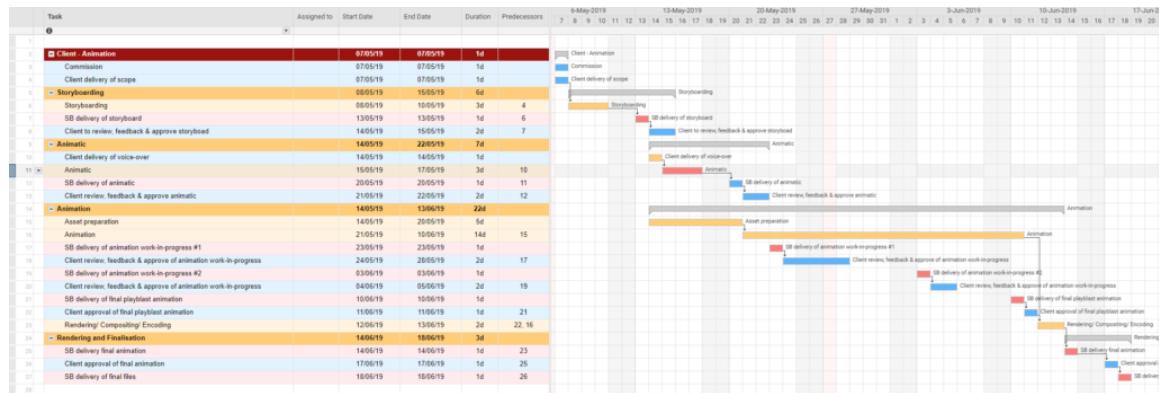
Wireframe → Implementasi → Integrasi → Testing → Deploy → Laporan

Inti dependency:

- Tidak bisa desain tanpa SRS
- Tidak bisa implementasi tanpa desain
- Tidak bisa testing tanpa implementasi
- Tidak bisa deploy tanpa testing

5. GAMBARAN GANTT CHART AKHIR (Sederhana & Jelas)

Gambaran yang nanti muncul di Notion:



Sprint 1 (18—24 Nov)

|===== Analisis =====|

|===== Desain Sistem =====|

Sprint 2 (25 Nov—8 Des)

|===== Implementasi Modul Login =====|

|===== Form Peminjaman =====|

|===== Dashboard =====|

|== Integrasi DB ==|

Sprint 3 (9—15 Des)

|===== Test Case =====|

|===== Testing =====|

|===== Bug Fix =====|

|== Deploy ==|

|===== Dokumentasi =====|

Warna berbeda → Role berbeda

Bar yang berhubungan → Dependencies



6. GAMBARAN TOTAL: WBS + SCRUM + TIMELINE + DEPENDENCY

Jika digabungkan dalam 1 pandangan:

💡 Big Picture Workflow

1. Sprint 1

- PO + DB + UI: Kebutuhan, SRS, Use Case, ERD, Wireframe

2. Sprint 2

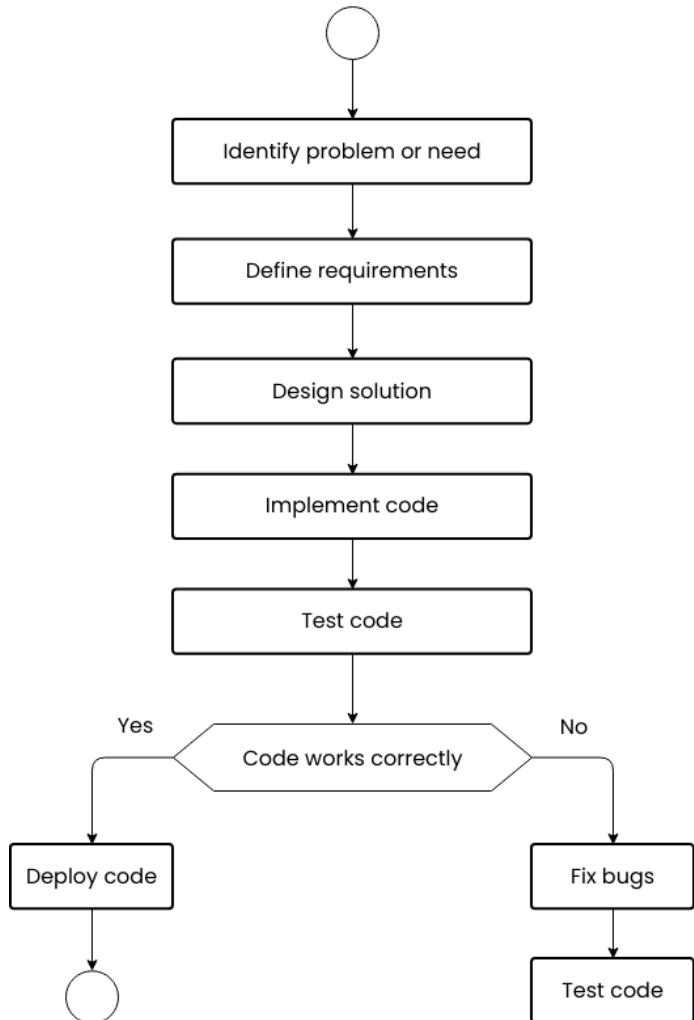
- Frontend + Backend: Implement Modul

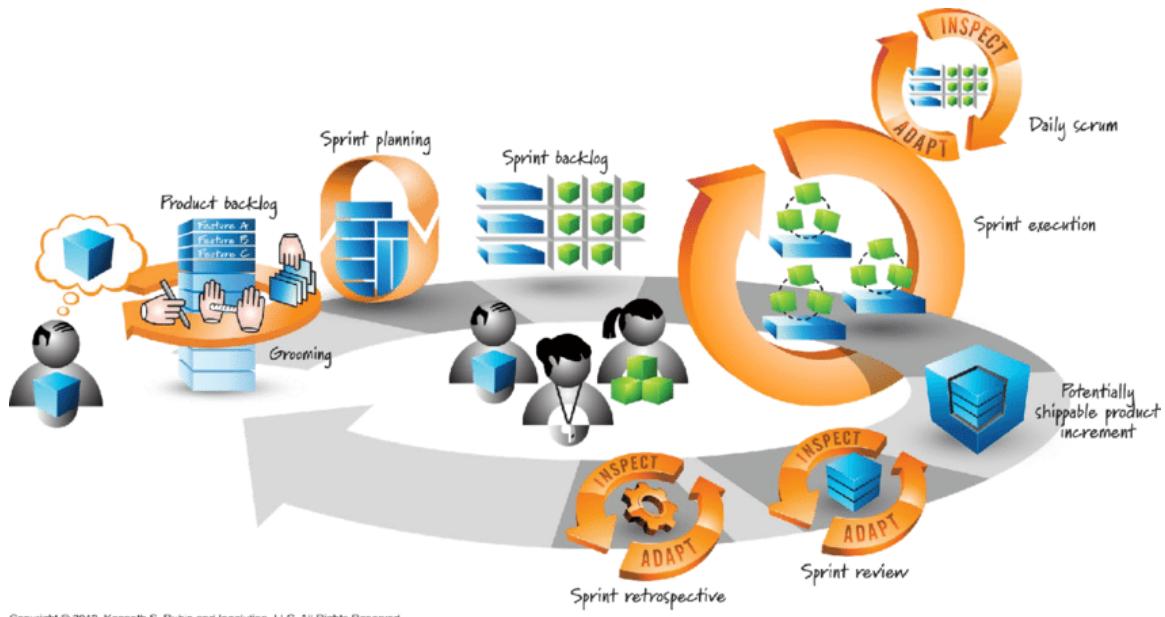
- DB: Query + integrasi

3. Sprint 3

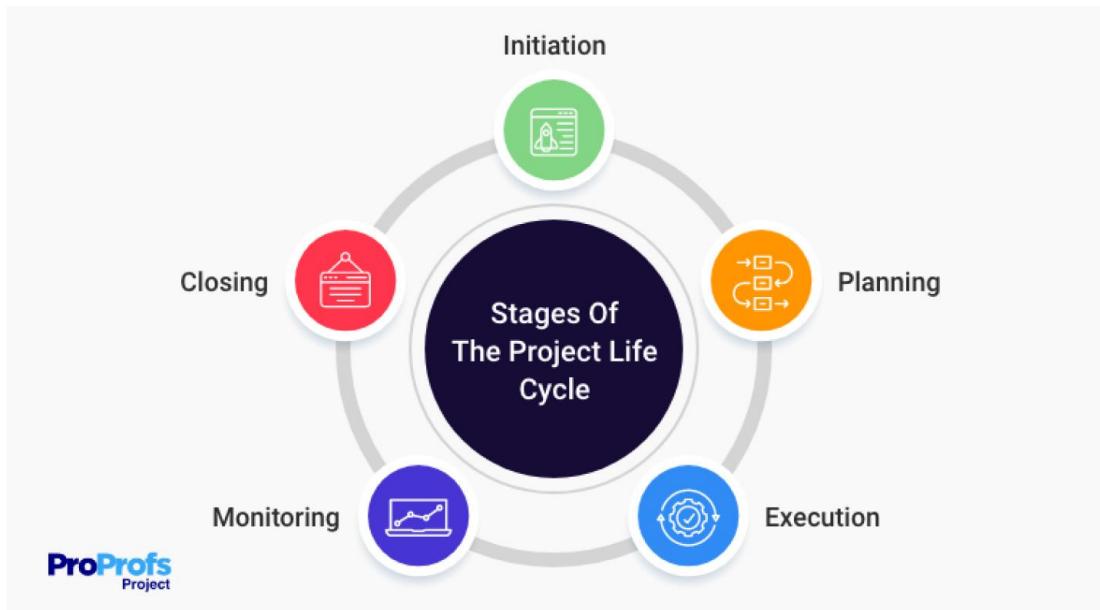
- QA + DevOps: Testing, Deploy
- PO: Accept Deliverables
- Tim: Laporan Final

Flow Chart





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■■ 7. Kesimpulan

Inilah gambaran lengkap yang kalian butuhkan:

- ✓ Mahasiswa tahu *apa* yang dikerjakan
- ✓ Mahasiswa tahu *kapan* dikerjakan (tanggal & durasi)
- ✓ Mahasiswa tahu *siapa* yang mengerjakan (SCRUM role)

- ✓ Mahasiswa tahu *urutan logis* antar task (dependencies)
- ✓ Mahasiswa tahu bagaimana *mengimplementasikan semuanya* ke Gantt Chart