

# ERD Final – Module MOM (Minutes of Meeting)

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## Tujuan

Dokumentasi ERD final untuk module MOM yang digunakan dalam proses **installation / maintenance IT**, dengan struktur **lean, scalable, dan production-ready**.

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## Entity Relationship Diagram (Overview)

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erDiagram

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PIPELINES ||--o{ SERVICES : has
PIPELINES ||--o{ MOMS : has
SERVICES ||--o{ MOMS : has

MOMS ||--o{ MOM_PARTICIPANTS : has
MOMS ||--o{ MOM_ATTACHMENTS : has
MOMS ||--o{ MOM_EMAIL_LOGS : has

PIPELINES ||--o{ REPORTS : has
SERVICES ||--o{ REPORTS : has
```

## Tabel: moms

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### Deskripsi

Menyimpan data utama MOM per meeting, terikat ke pipeline dan service.

Column	Type	Keterangan
id	uuid	Primary key
pipeline_id	uuid	FK ke pipeline/project
service_id	uuid	FK ke service
title	string	Judul meeting
meeting_date	datetime	Tanggal meeting
summary	text	Ringkasan hasil meeting
status	enum	draft / published / sent
created_by	uuid	PM pembuat

Column	Type	Keterangan
created_at	timestamp	
updated_at	timestamp	

## Tabel: mom\_participants

### Deskripsi

Menyimpan daftar peserta meeting (internal & external).

Column	Type	Keterangan
id	uuid	Primary key
mom_id	uuid	FK ke moms
user_id	uuid	Nullable (internal user)
name	string	Nama peserta
email	string	Email peserta

## Tabel: mom\_attachments

### Deskripsi

Menyimpan file lampiran MOM.

Column	Type	Keterangan
id	uuid	Primary key
mom_id	uuid	FK ke moms
file_name	string	Nama file
file_path	string	Path file
uploaded_by	uuid	User uploader
created_at	timestamp	

## Tabel: mom\_email\_logs

### Deskripsi

Log pengiriman email MOM ke stakeholder.

Column	Type	Keterangan
id	uuid	Primary key
mom_id	uuid	FK ke moms
sent_by	uuid	Pengirim
recipients	json	To / CC / BCC
subject	string	Subject email
sent_at	timestamp	Waktu kirim
status	enum	success / failed

## Tabel: reports

### Deskripsi

Menyimpan laporan hasil generate dari MOM.

Column	Type	Keterangan
id	uuid	Primary key
pipeline_id	uuid	FK ke pipeline
service_id	uuid	Nullable (opsional per service)
type	enum	weekly / final
start_date	date	Range awal
end_date	date	Range akhir
summary	text	Ringkasan laporan
generated_by	uuid	PM
created_at	timestamp	

## Relasi Utama

- 1 Pipeline → banyak Service
- 1 Pipeline → banyak MOM
- 1 Service → banyak MOM
- 1 MOM → banyak:
  - Participants

- Attachments
- Email Logs
- 1 Pipeline → banyak Report
- 1 Service → banyak Report (opsional)

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## Flow Status MOM

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draft → published → sent

Status	Keterangan
draft	MOM masih dalam proses penulisan
published	Sudah final, siap dikirim
sent	Sudah dikirim ke stakeholder

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## Design Decisions

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### 1. Penggunaan `pipeline_id` + `service_id`

- Menghindari pencampuran MOM antar pekerjaan
  - Memungkinkan tracking detail per service
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### 2. `service_id` di `reports` bersifat nullable

- Bisa generate report:
    - Per service
    - Atau gabungan 1 pipeline
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### 3. Tidak menggunakan pivot `report_moms`

- Report di-generate berdasarkan:
    - Filter tanggal
    - Pipeline / service
  - Lebih simple & efisien
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### 4. Email Log sebagai audit trail

- Menyimpan histori pengiriman

- Bisa tracking gagal / sukses
  - Mendukung resend
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## Kesimpulan

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Desain ini:

- Lean (tidak over-engineered)
  - Jelas relasinya
  - Siap untuk production
  - Mudah dikembangkan (scalable)
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## Next Step (Opsional)

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- Generate Laravel Migration
  - API Design (REST)
  - UI Mapping ke mockup
  - Automation Report dari MOM
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Status:  **FINAL ERD (READY FOR DEVELOPMENT)**