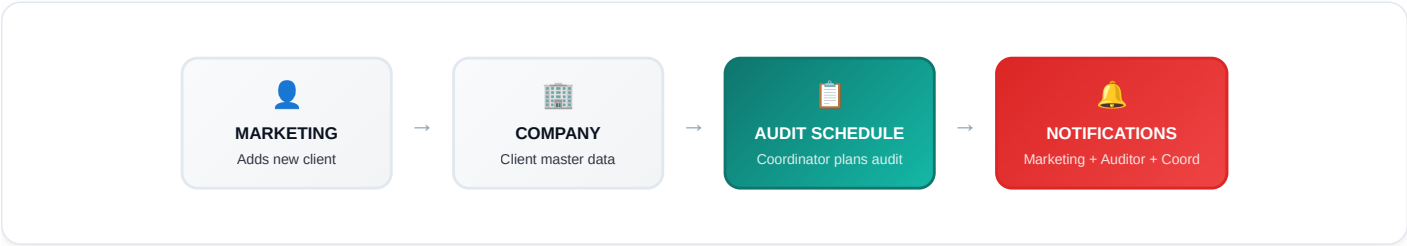


Audit Schedule Module — Complete Architecture

Final consolidated plan with all UI mockups, datatables, modals, and database design

SECTION 1

Workflow Overview



Locked-In Decisions

- ✓ **Module slug:** audit-schedules
- ✓ **Audit code format:** INI-2026-05-08-000123 (Type-Year-Month-Day-Sequence)
- ✓ **Counter:** Resets monthly per audit type
- ✓ **Audit types:** INITIAL · SURVEILLANCE · RECERTIFICATION
- ✓ **Audit modes:** Onsite · Office
- ✓ **Reschedule:** Same audit_code preserved
- ✓ **Reschedule limit:** Unlimited (your choice)
- ✓ **Cancellation reasons:** All 5 (Client / Auditor / Coordinator / External / No-show)
- ✓ **Notifications:** Internal only (Marketing + Auditor + Coordinator)
- ✓ **Audit history per company:** Last 5 audits + smart recommendations
- ✓ **Audit trail:** Full status change logging (your choice)

SECTION 2

List Page (Datatable)

What users see when they open the Audit Schedule module — daily view with stats and table

LIST PAGE

 **ACTIVITY CENTER**

Audit Schedules

Plan, dispatch, and track daily audit assignments across all teams

TOTAL SCHEDULES
156
All time

THIS WEEK
12
7-day window

PENDING AUDITS
8
Awaiting completion

COMPLETED
142
91% completion rate

DATE RANGE

GROUP

STATUS

SEARCH

Schedule List View (parent — daily schedules)

ID	SCHEDULE DATE	TITLE	GROUP	ROWS	COORDINATOR	STATUS	ACTIONS
#0156	08 May 2026	Audit Schedule for 08th May 2026	QRS	7 audits	HARSHANI	Published	
#0155	07 May 2026	Audit Schedule for 07th May 2026	QRS	5 audits	JULIE	Completed	
#0154	06 May 2026	Audit Schedule for 06th May 2026	TQS	3 audits	SAI	Draft	

Audit Rows View (children — within a schedule)

When you click a schedule row above, you see all audits inside it

S#	AUDIT CODE	TYPE	STAGE	MODE	COMPANY	STANDARDS	TIME	LEAD AUDITOR	STATUS
1	INI-2026-05-08-000123	INITIAL	Stage 1	Onsite	VIBRANT ELECTROMECHANICAL	ISO 9001 ISO 14001	11:00 AM	MR IBRAHIM	Per
2	SUR-2026-05-08-000045	SURVEILLANCE	Surveillance	Onsite	FIRST ENGINEERING SERVICES	ISO 9001	04:00 PM	MR TAHIR	Con
3	REC-2026-05-08-000007	RECERT	Recertification	Office	AQUASHI TRADING L.L.C	ISO 9001 ISO 14001 ISO 45001	10:30 AM	MS GLENDA	Ca
4	INI-2026-05-08-000124	INITIAL	Stage 2	Onsite	MODERN SEAL INSULATION	ISO 9001	09:00 AM	MS NOOR	Re

SECTION 3

Create / Edit Form Modal

What the coordinator sees when creating a new schedule with audit rows

FORM MODAL — CREATE MODE

Plan Audit Assignments

 SCHEDULE INFORMATION

Schedule Date *

05/08/2026



Group *

QRS

*Which internal group is dispatching the audits*

Title

AUDIT SCHEDULE FOR 08TH MAY 2026

Auto-fills from date but you can override

Coordinator *

 Search user (HARSHANI, JULIE, SAI...)*From Users module — auto-completes*

Source Email

coordinator@iicc.ae

Cancel

 Save as Draft Publish & Send Notifications

SECTION 4

Cancel Audit Modal

Triggered when user clicks the  button on an audit row CANCEL MODAL

INI-2026-05-08-000123 · VIBRANT ELECTROMECHANICAL



Audit code **INI-2026-05-08-000123** will be preserved. Original audit date is captured for history.

Original Audit Date

05/08/2026

Captured for audit trail

Reschedule Count

0 → 1

Unlimited reschedules allowed

New Audit Date *

05/15/2026



New Audit Time *

02:00 PM



Reschedule Reason *

Client requested — factory available next week

Re-assign Lead Auditor? (optional)

MR IBRAHIM

If original auditor is unavailable on new date, pick a replacement

Cancel



Confirm Reschedule

SECTION 6

Print / Detail View

Matches the original email format — printable A4 layout for the daily schedule

PRINT VIEW (MATCHES ORIGINAL EMAIL)

AUDIT SCHEDULE FOR 08TH MAY 2026

S#	AUDIT CODE	CATEGORY	COMPANY NAME	STANDARD	ACCREDITATION	STAGE	MODE	COORDINATOR	TIME	LEAD AUDITOR
1	INI-2026-05-08-000123	INITIAL	VIBRANT ELECTROMECHANICAL CONTRACTING LLC	ISO 9001, 14001	ASCB	Stage 1	Onsite	HARSHANI/QRS	11:00 AM	MR IBRAHIM
2	SUR-2026-05-08-000045	SURVEILLANCE	FIRST ENGINEERING SERVICES FZE	ISO 9001	ASCB	Surveillance	Onsite	HARSHANI/QRS	04:00 PM	MR TAHIR
3	REC-2026-05-08-000007	RECERT	AUTO CENTRAL SOLE PROPRIETORSHIP	ISO 9001, 14001, 45001	IAF-BRSM	Recertification	Onsite	HARSHANI/QRS	10:30 AM	MS GLENDA & MR MUKESH

Coordinator: HARSHANI AMARASEKARA · Group: QRS · Generated automatically from QRS Certification System

SECTION 7

Audit Status State Machine

All possible states an audit can be in

Happy Path



Cancellation Path



Reschedule Path (audit_code preserved)



SECTION 8

Notifications — Internal Only

Only Marketing + Auditor + Coordinator receive notifications. No client emails sent.

On Schedule Publish (3 notifications)



For Marketing Person — Sarah Khan

Your client **VIBRANT ELECTROMECHANICAL** has been scheduled for an audit on **08 May 2026 at 11:00 AM**.
Type: INITIAL · Stage: Stage 1 · Mode: Onsite · Auditor: MR IBRAHIM
Just now · via Email + In-App



For Lead Auditor — MR IBRAHIM

New audit assignment: **VIBRANT ELECTROMECHANICAL** on **08 May 2026 at 11:00 AM (Onsite)**.
Code: INI-2026-05-08-000123 · Standards: ISO 9001, 14001 · Coordinator: HARSHANI/QRS
Just now · via Email + In-App



For Coordinator — HARSHANI (confirmation)

Schedule for **08 May 2026** published successfully with 7 audit rows. All recipients notified.
Just now · In-App

On Cancellation (3 notifications)



For Marketing Person

Audit for **VIBRANT ELECTROMECHANICAL** (08 May, 11 AM) has been **cancelled**.
Reason: **Client Request** — "Factory closed for renovation"
Next action: Coordinator will reschedule.
Just now · via Email + In-App



For Auditor

Your audit for **VIBRANT** on 08 May has been cancelled. Your slot is now free.
Just now · via Email + In-App

SECTION 9

Implementation Plan

Implementation Roadmap (3 phases)

Phase A — Backend (1 message)

1. SQL migration (5 tables ready to run)
2. Entities: AuditSchedule, AuditScheduleRow, AuditCodeSequence, AuditStatusHistory
3. DTOs: Create / Update / Cancel / Reschedule with validation
4. Code Generator Service (race-safe, transactional)
5. Schedule Service (CRUD + cancel + reschedule + history)
6. Controller (~15 endpoints)
7. Module registration in app.module.ts

Phase B — Frontend Core (1 message)

1. TypeScript types + API helpers
2. List page with filters + KPIs
3. Create/Edit form modal with multi-row support
4. History widget integration in form

Phase C — Polish (1 message)

1. Cancel modal + Reschedule modal
2. Detail/print page (matches email format)
3. Notification integration with existing system
4. Module permissions + sidebar entry

✓ Architecture Complete — Ready to Build

Everything is now designed:

- ① List page with KPIs + filters + 2-level datatable (schedules + audit rows)
- ② Create/Edit form modal with auto-fill + history widget + recommendations
- ③ Cancel modal with 6 reasons + internal-only notifications
- ④ Reschedule modal preserving audit_code (unlimited reschedules)
- ⑤ Print/Detail view matching email format
- ⑥ 5 database tables with full schema
- ⑦ ~15 REST endpoints
- ⑧ Status state machine with all paths

Reply with "Yes proceed" to start Phase A (backend code) — SQL + entities + service + controller