

Asset Management System – Multi-Company Modular Platform -Database Schema

1. Companies Table (Super Admin)

Field Name	Type	Description
company_id	UUID	Unique company identifier
company_name	String	Company legal name
logo	String (URL)	Company logo
email	String	Official email
phone	String	Contact number
address	Text	Full address
status	Enum	Active / Inactive
created_at	DateTime	Created date

2. Admins Table

Field Name	Type	Description
admin_id	UUID	Admin unique ID
company_id	UUID	Linked company
name	String	Admin name
email	String	Login email
role	Enum	Super Admin / Company Admin
permissions	JSON	Module access
status	Enum	Active / Disabled
created_at	DateTime	Created date

3. Departments Table

Field Name	Type	Description
department_id	UUID	Department ID
company_id	UUID	Company reference
department_name	String	Department name
description	Text	Notes
status	Enum	Active / Inactive

4. Employees Table

Field Name	Type	Description
employee_id	UUID	Employee ID
company_id	UUID	Company
department_id	UUID	Department
employee_code	String	Internal code
name	String	Full name
email	String	Email
phone	String	Contact
designation	String	Job title
join_date	Date	Joining date
status	Enum	Active / Resigned

5. Asset Categories Table

Field Name	Type	Description
category_id	UUID	Category ID
category_name	String	e.g. Laptop
icon	String	UI icon
description	Text	Notes
depreciation_rate	Float	% per year

6. Assets (Inventory Master)

Field Name	Type	Description
asset_id	UUID	Asset unique ID
asset_code	String	Internal code
category_id	UUID	Asset category
asset_name	String	Asset name
brand	String	Brand
model	String	Model
serial_number	String	Manufacturer serial
purchase_date	Date	Purchase date
purchase_price	Decimal	Cost
warranty_expiry	Date	Warranty end
asset_status	Enum	Available / Assigned / Repair / Lost
barcode	String	Barcode value
qr_code	String	QR data

7. Asset Requests Table

Field Name	Type	Description
request_id	UUID	Request ID
employee_id	UUID	Requested by
category_id	UUID	Asset type
reason	Text	Justification
request_status	Enum	Pending / Approved / Rejected
requested_date	Date	Request date
approved_by	UUID	Admin ID

8. Maintenance Table

Field Name	Type	Description
maintenance_id	UUID	Maintenance ID
asset_id	UUID	Asset
issue_type	String	Issue
vendor	String	Repair vendor
start_date	Date	Repair start
end_date	Date	Repair end
cost	Decimal	Repair cost
status	Enum	In Progress / Completed

11. Inventory Barcode & QR Table

Field Name	Type	Description
inventory_id	UUID	Inventory ID
asset_id	UUID	Asset reference
barcode_image	String	Barcode image URL
qr_image	String	QR image URL
generated_by	UUID	Admin ID
generated_at	DateTime	Generated date

12. Reports Table

Field Name	Type	Description
report_id	UUID	Report ID
report_type	String	Asset / Maintenance

Field Name	Type	Description
filters	JSON	Date, dept, status
generated_by	UUID	Admin
file_url	String	PDF/Excel
created_at	DateTime	Date

13. Settings Table

Field Name	Type	Description
setting_id	UUID	Setting ID
company_id	UUID	Company
barcode_enabled	Boolean	Enable barcode
qr_enabled	Boolean	Enable QR
asset_prefix	String	Asset code prefix
notification_enabled	Boolean	Alerts
