

Schema Alignment Matrix

Systematic identification and resolution of schema mismatches

Status Legend

- Aligned No issues
- X Mismatch Needs fixing
- **A Partial** Some fields misaligned
- 🔄 In Progress Being fixed

1. Document Model

Field	Prisma Schema	API Usage	Frontend	Status	Fix Re- quired
id	String @id	X Missing in create	N/A	×	Add to API create
filename	String	✓ file.name	N/A	V	None
original- Name	String	file.name	N/A	V	None
mimetype	String	✓ file.type	N/A	V	None
size	Int	✓ file.size	N/A	V	None
cloudStor- agePath	String	<pre>✓ cloud- StoragePath</pre>	N/A	V	None
uploaded- Byld	String?	<pre>✓ ses- sion.user?.i d</pre>	N/A	V	None
category	DocumentCat- egory	'GENERAL'	N/A	V	None
description	String?	✓ 'AI As- sistant'	N/A	V	None
updatedAt	DateTime	X Missing in create	N/A	×	Add to API create
createdAt	<pre>DateTime @de- fault(now())</pre>	✓ Auto-gen- erated	N/A	V	None

[₹] **Fix**: Add missing fields to document creation API

2. Client Model

Field/Rela- tion	Prisma Schema	API Usage	Frontend	Status	Fix Re- quired
id	String @id	X Missing in create	TBD	×	Add to client create
name	String	✓ Correct	V	V	None
email	String?	✓ Correct	V	V	None
clientNum- ber	String? @unique	✓ Generated	V	V	None
createdById	String	✓ Correct	V	V	None
updatedAt	DateTime	X Missing in create	TBD	×	Add to client create
Project (relation)	Project[]	X Using projects	TBD	×	Change to Project
ClientIn- voice (rela- tion)	<pre>ClientIn- voice[]</pre>	★ Using clientIn-voices	TBD	×	Change to ClientIn- voice
_count.Proj ect	Auto-gener- ated	★ Using projects	TBD	×	Change to Project
_count.Clien tInvoice	Auto-gener- ated	★ Using clientIn-voices	TBD	×	Change to ClientIn- voice

3. Furchase Order Model

Field/Rela- tion	Prisma Schema	API Usage	Frontend	Status	Fix Required
id	String @id	✓ Correct	V	V	None
poNumber	String @unique	✓ Auto-gen- erated	V	V	None
vendorld	String	✓ Correct	V	~	None
requesterId	String	✓ Correct	V	V	None
createdById	String	★ Using createdBy	TBD	×	Change to createdById
approved- Byld	String?	★ Using ap- provedBy	TBD	×	Change to approvedById
Vendor (relation)	Vendor	∨ vendor	V	V	None
Project (relation)	Project?	★ Using project	V	×	Change to Project
User (requester)	Complex re-	X Using re- quester	TBD	×	Fix relation name
Purchase- OrderItem[]	Purchase- OrderItem[]	★ Using items	TBD	×	Change to Purchase- OrderItem
VendorIn- voice[]	VendorIn- voice[]	<pre>Missing vendorIn- voices</pre>	TBD	×	Add proper include

[₹] Fix: Update all relation names to match Prisma schema exactly

4. **User Model**

Field	Prisma Schema	API Usage	Frontend	Status	Fix Re- quired
id	String @id	X Missing in create	TBD	×	Add to user create
email	String @unique	✓ Correct	V	V	None
firstName	String?	✓ Correct	V	V	None
lastName	String?	✓ Correct	V	V	None
role	UserRole	✓ Correct	V	V	None
password	String?	✓ Hashed	V	V	None
updatedAt	DateTime	X Missing in create	TBD	×	Add to user create
createdAt	DateTime @de- fault(now())	✓ Auto-gen- erated	V	V	None

Fix: Add missing required fields to user creation

Critical Fixes Required

Priority 1: Relation Name Fixes

Priority 2: Missing Required Fields

```
// X WRONG - Missing required fields
await prisma.document.create({
 data: {
    filename: file.name,
    // Missing: id, updatedAt
 }
})
// ✓ CORRECT - With required fields
await prisma.document.create({
 data: {
    id: generateId(),
    filename: file.name,
    updatedAt: new Date(),
    // ... other fields
 }
})
```

Priority 3: Count Field Alignment

```
// WRONG
_count: {
  projects: true,
  clientInvoices: true
}

// CORRECT
_count: {
  Project: true,
  ClientInvoice: true
}
```

然 Action Items Checklist

Phase 1: Critical API Fixes

- [] Fix Document API: Add id and updatedAt fields
- [] Fix Client API: Change projects → Project
- [] Fix Client API: Change clientInvoices → ClientInvoice
- [] Fix Client API: Add missing create fields
- [] Fix PurchaseOrder API: Change createdBy → createdById relation
- [] Fix PurchaseOrder API: Change approvedBy → approvedById relation
- [] Fix PurchaseOrder API: Change items → PurchaseOrderItem
- [] Fix PurchaseOrder API: Add VendorInvoice include

Phase 2: Validation & Type Safety

- [] Add proper TypeScript interfaces for all models
- [] Update Zod/validation schemas
- [] Add proper error handling for missing fields
- [] Test all CRUD operations

Phase 3: Frontend Alignment

- [] Review frontend form submissions
- [] Update API response handling
- [] Test end-to-end workflows
- [] Update documentation

@ Quick Win Priority

Start Here (15 min fixes):

- 1. Client API relation names (projects → Project)
- 2. Purchase Order relation names (createdBy → proper relation)
- 3. Add missing updatedAt to document creation

Medium Effort (30 min fixes):

- 4. Purchase Order complex relations
- 5. User creation schema fixes
- 6. Type safety improvements

High Impact Testing:

- 7. Test quotation creation (relies on Client API)
- 8. Test PO creation (relies on Purchase Order API)
- 9. Test document upload (relies on Document API)

Pro Tip: Fix one model at a time, run yarn tsc --noEmit after each fix to verify progress.