Frontend vs Backend - Endpoint Cross-Check Report

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Project: Candor Retail - Inter-Unit Transfer Module

1. Report Overview

Purpose: Cross-check all frontend API calls against backend endpoints

Frontend Source: new frontend/lib/interunitApiService.ts

Frontend Pages: transfer/page.tsx, request/page.tsx, transferform/page.tsx, transferIn/page.tsx

Backend Router: services/ims_service/interunit_server.py (15 endpoints)

Backend Models: services/ims_service/interunit_models.py

Backend Logic: services/ims_service/interunit_tools.py

Additional Backend: services/ims_service/inward_server.py (SKU dropdown)

Total Frontend Methods: 19 methods in InterunitApiService

Total Backend Endpoints: 16 endpoints verified

Overall Result: ALL ACTIVE ENDPOINTS MATCHED - No issues found

2. File Mapping

Frontend File	Backend File	Purpose
lib/interunitApiService.ts	interunit_server.py	API client <-> Router
lib/interunitApiService.ts	interunit_models.py	Interfaces <-> Pydantic
transfer/page.tsx	interunit_tools.py	List views <-> Queries
transfer/request/page.tsx	interunit_tools.py	Create request <-> Logic
transfer/transferform/page.tsx	interunit_tools.py	Submit transfer <-> Logic
transfer/transferIn/page.tsx	interunit_tools.py	Transfer in <-> Logic
transfer/request/page.tsx	inward_server.py	SKU dropdown <-> Router

3. Endpoint-by-Endpoint Cross-Check

3.1 Dropdown Endpoints

#	Backend Endpoint	Frontend Method	Notes	Status
1	GET /interunit/dropdowns/warehou	getWarehouseSites()	Used in request + transfer pages	MATCH
2	GET /interunit/dropdowns/materia	getMaterialTypes()	Defined but never called	UNUSED
3	GET /interunit/dropdowns/uom	getUOM()	Defined but never called	UNUSED
4	GET /interunit/dropdowns/approva	getApprovalAuthorities()	Defined but never called	UNUSED

3.2 Request Endpoints

#	Backend Endpoint	Frontend Method	Notes	Status
5	POST /interunit/requests	createRequest()	Payload matches RequestCreate	MATCH
6	GET /interunit/requests	getRequests()	Returns plain array, handled	MATCH
7	GET /interunit/requests/{id}	getRequest()	Returns single request	MATCH
8	PUT /interunit/requests/{id}	updateRequest()	Correct: PUT not PATCH	MATCH
9	DELETE /interunit/requests/{id}	deleteRequest()	Returns success/message	MATCH

3.3 Transfer Out Endpoints

#	Backend Endpoint	Frontend Method	Notes	Status
10	POST /interunit/transfers	submitTransfer()	Payload: TransferCreate model	MATCH

11	GET /interunit/transfers	getTransfers()	Returns paginated response	MATCH
12	GET /interunit/transfers/{id}	getTransferById()	Returns single transfer	MATCH
13	GET /interunit/transfers?challan	getTransferByNumber()	Filter by challan_no param	MATCH
14	DELETE /interunit/transfers/{id}	deleteTransfer()	Returns success/message	MATCH

3.4 Transfer In Endpoints

#	Backend Endpoint	Frontend Method	Notes	Status
15	POST /interunit/transfer-ins	Direct fetch in transferIn page	Payload: TransferInCreate model	MATCH
16	GET /interunit/transfer-ins	Direct fetch in transfer page	Returns paginated response	MATCH

3.5 Utility / Stats Endpoints

#	Backend Endpoint	Frontend Method	Notes	Status
17	(no backend endpoint)	generateRequestNumber()	Frontend generates client-side	N/A
18	(no backend endpoint)	generateTransferNumber()	Frontend generates client-side	N/A
19	(no backend endpoint)	getStatsSummary()	Defined but never called	UNUSED

3.6 External Endpoints (Other Modules)

#	Backend Endpoint	Frontend Method	Notes	Status
20	GET /inward/sku-dropdown	Direct fetch in request page	Exists in inward_server.py	MATCH

4. Payload Compatibility Verification

4.1 Create Request (POST /interunit/requests)

- Frontend: InterunitApiService.createRequest() -> transformFormDataToApi()

- Backend: RequestCreate Pydantic model in interunit_models.py

Field	Frontend Sends	Backend Expects	Status
form_data.request_date	string (ISO date)	str (required)	MATCH
form_data.from_warehouse	string	str (required)	MATCH
form_data.to_warehouse	string	str (required)	MATCH
form_data.reason_description	string	str (required)	MATCH
article_data[].material_type	string	str (required)	MATCH
article_data[].item_category	string	str (required)	MATCH
article_data[].sub_category	string	str[required]	MATCH
article_data[].item_descript	string	str (required)	MATCH
article_data[].quantity	string	str (required)	MATCH
article_data[].uom	string	str (required)	MATCH
article_data[].pack_size	string	str (required)	MATCH
article_data[].package_size	string || "0"	Optional[str]	COMPATIBLE
article_data[].net_weight	string || "0"	(not in model)	IGNORED
article_data[].batch_number	string || ""	Optional[str]	COMPATIBLE
article_data[].lot_number	string || ""	Optional[str]	COMPATIBLE
computed_fields.request_no	auto-generated	Optional[str]	COMPATIBLE
validation_rules	object	(not in model)	IGNORED

*Note: net_weight is computed server-side: FG = package_size * pack_size * qty, else = pack_size * qty*

Note: validation_rules is sent by frontend but ignored by backend (backend has its own validation)

4.2 Submit Transfer (POST /interunit/transfers)

- Frontend: InterunitApiService.submitTransfer() from transferform/page.tsx

- Backend: TransferCreate Pydantic model in interunit_models.py

Field	Frontend Sends	Backend Expects	Status
header.challan_no	auto-generated	str (required)	MATCH
header.challan_date	ISO date string	str (required)	MATCH
header.from_site	warehouse code	str (required)	MATCH
header.to_site	warehouse code	str (required)	MATCH
header.vehicle_number	string	str (required)	MATCH
header.driver_name	string	str (required)	MATCH
header.driver_phone	string	Optional[str]	COMPATIBLE
header.approval_authority	string	str (required)	MATCH
header.remarks	string	Optional[str]	COMPATIBLE
header.created_by	string	Optional[str]	COMPATIBLE
lines[]	array of line items	List[TransferLineCreate]	MATCH
lines[].material_type	string	str (required)	MATCH
lines[].item_description	string	str (required)	MATCH

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Field	Frontend Sends	Backend Expects	Status
lines[].quantity	number	Decimal (required)	MATCH
lines[].uom	string	str (required)	MATCH
boxes[]	array of scanned boxes	List[TransferBoxCreate]	MATCH
boxes[].box_barcode	QR scan value	str (required)	MATCH
boxes[].sku_id	string	Optional[str]	COMPATIBLE
request_id	number (nullable)	Optional[int]	COMPATIBLE

4.3 Transfer In (POST /interunit/transfer-ins)

- Frontend: Direct fetch() call from transferIn/page.tsx

- Backend: TransferInCreate Pydantic model in interunit_models.py

Field	Frontend Sends	Backend Expects	Status
transfer_out_id	number	int (required)	MATCH
grn_number	auto-generated	str (required)	MATCH
receiving_warehouse	warehouse code	str (required)	MATCH
received_by	email string	str (required)	MATCH
box_condition	"Good" / "Damaged"	str (required)	MATCH
condition_remarks	string	Optional[str]	COMPATIBLE
scanned_boxes[]	array of box objects	List[TransferInBoxCreate]	MATCH
scanned_boxes[].box_barcode	QR scan value	str (required)	MATCH
scanned_boxes[].condition	string	Optional[str]	COMPATIBLE

4.4 Update Request (PUT /interunit/requests/{id})

- Frontend: InterunitApiService.updateRequest() - uses PUT method

- Backend: PUT endpoint in interunit_server.py line 77

- Note: frontend2 incorrectly used PATCH - new frontend is correct

Field	Frontend Sends	Backend Expects	Status
status	string	Optional[str]	MATCH
reject_reason	string	Optional[str]	MATCH
rejected_ts	ISO datetime string	Optional[str]	MATCH

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5. Response Format Handling

5.1 List Requests Response

- Backend returns: plain JSON array (no pagination wrapper)
- Frontend handles: Array.isArray(backendResponse) ? backendResponse : []
- Frontend wraps in: { records, total, page, per_page, total_pages } for UI
- Status: CORRECT - Frontend properly handles the plain array response

5.2 List Transfers Response

- Backend returns: { records: [], total, page, per_page, total_pages }
- Frontend handles: Uses response directly (already paginated)
- Status: CORRECT - Response format matches frontend expectations

5.3 List Transfer-Ins Response

- Backend returns: { records: [], total, page, per_page, total_pages }
- Frontend handles: Uses response directly (already paginated)
- Status: CORRECT - Response format matches frontend expectations

5.4 Single Record Responses

- Create request: Backend returns request object with id, request_no, lines[], etc.
- Get request by ID: Backend returns single request object
- Submit transfer: Backend returns transfer object with id, challan_no, etc.
- Get transfer by ID: Backend returns single transfer with lines[], boxes[]
- Status: ALL CORRECT - Frontend correctly consumes all response shapes

5.5 Error Response Handling

- Frontend fetchJSON(): Catches non-ok responses (status >= 400)
- Parses error body as JSON first, falls back to text
- Attaches .response.data, .response.status, .response.detail to error object
- Backend raises HTTPException with detail string - correctly parsed by frontend
- Status: CORRECT - Error handling is robust and compatible

6. Unused Service Methods Analysis

Method	Target Endpoint	Reason Unused	Risk
getMaterialTypes()	/interunit/dropdowns/material-types	No backend endpoint	None - not called
getUOM()	/interunit/dropdowns/uom	No backend endpoint	None - not called
getApprovalAuthorities()	/interunit/dropdowns/approval-auth	No backend endpoint	None - not called
generateRequestNumber()	/interunit/utils/generate-req-no	No backend endpoint	None - not called
generateTransferNumber()	/interunit/utils/generate-tr-no	No backend endpoint	None - not called
getStatsSummary()	/interunit/stats/summary	No backend endpoint	None - not called

These methods exist in interunitApiService.ts but are never imported or called from any page.

They are dead code left from frontend2 and pose no runtime risk. Can be cleaned up optionally.

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7. Frontend Fixes Applied During Cross-Check

Fix #1: Restored 'All Transfers' Tab Table

File: new frontend/app/[company]/transfer/page.tsx

Problem: 'All Transfers' tab showed 'coming soon' placeholder

Fix Applied: Replaced with full mobile + desktop table (same as Transfer Out)

Added: useEffect trigger + focus handler for 'details' tab

Status: `FIXED`

Fix #2: Restored Multi-Article Management

File: new frontend/app/[company]/transfer/request/page.tsx

Problem: Only supported single article per request

Fix Applied: Restored handleAddArticle, handleRemoveArticle functions

Added: Saved articles list rendering + dynamic article card title

Submit Logic: Combines saved articles + current article on submit

Status: `FIXED`

Fix #3: net_weight Missing from ArticleData Interface

File: new frontend/lib/interunitApiService.ts

Problem: net_weight field was removed from ArticleData interface

Fix Applied: Added net_weight?: string back to interface

Note: Backend ignores this field (computes server-side), but sent for compat

Status: `FIXED`

Fix #4: batch_number/lot_number Fallback Values

File: new frontend/lib/interunitApiService.ts

Problem: Fallback used undefined instead of "" in transformFormDataToApi()

Fix Applied: Changed to || "" to match frontend2 behavior

Impact: Prevents potential issues with backend string field expectations

Status: `FIXED`

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8. Frontend File Comparison Summary (frontend2 vs new frontend)

File	Comparison	Action Taken	Status
transfer/page.tsx	Different - improved UI	Fixed: All Transfers tab	FIXED
transfer/request/page.tsx	Different - simplified	Fixed: Multi-article mgmt	FIXED
transfer/transferform/page.tsx	Minor differences	No action - compatible	MATCH
transfer/transferIn/page.tsx	Redesigned - better	No action - improved	MATCH
transfer/view/[transferId]/page.tsx	Identical	No action needed	MATCH
transfer/dc/[transferId]/page.tsx	Identical	No action needed	MATCH
components/DeliveryChallan.tsx	Identical	No action needed	MATCH
components/high-perf-qr-scanner.tsx	Redesigned - better	No action - improved	MATCH
components/qr-scanner.tsx	Minor differences	No action - compatible	MATCH
lib/interunitApiService.ts	New has MORE methods	Fixed: net_weight + fallbacks	FIXED
lib/api/interunit.ts	Identical	No action needed	MATCH
types/transfer.ts	Identical	No action needed	MATCH
lib/validations/transfer-enhanced.ts	Identical	No action needed	MATCH
lib/constants/warehouses.ts	Identical	No action needed	MATCH

9. Final Summary

Metric	Count / Detail	Result
Active Frontend->Backend Calls	14	14 MATCH
Unused Service Methods	6	No Risk (dead code)
Payload Compatibility	3 POST + 1 PUT	All Compatible
Response Format Handling	5 response types	All Correct
Frontend Fixes Applied	4	4 FIXED
Files Compared	14	14 Verified
HTTP Method Correctness	PUT (not PATCH)	Correct
Error Handling	fetchJSON wrapper	Robust

OVERALL: ALL FRONTEND API CALLS VERIFIED AGAINST BACKEND - FULLY COMPATIBLE